

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P401614

Luminaire Tested: **ENV-SA1E-727-U-SL3**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1E-727-U-SL3  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5771 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

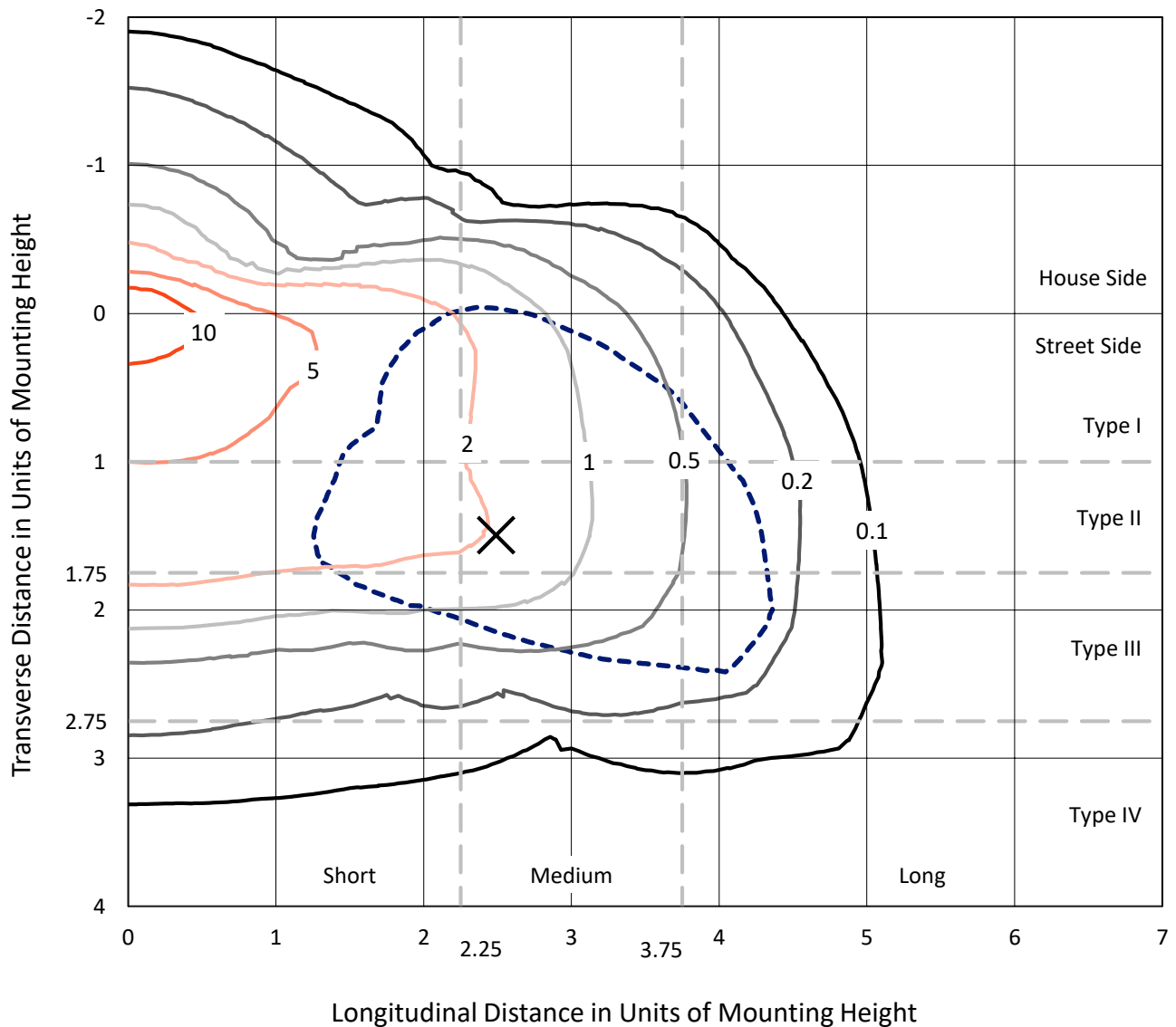


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

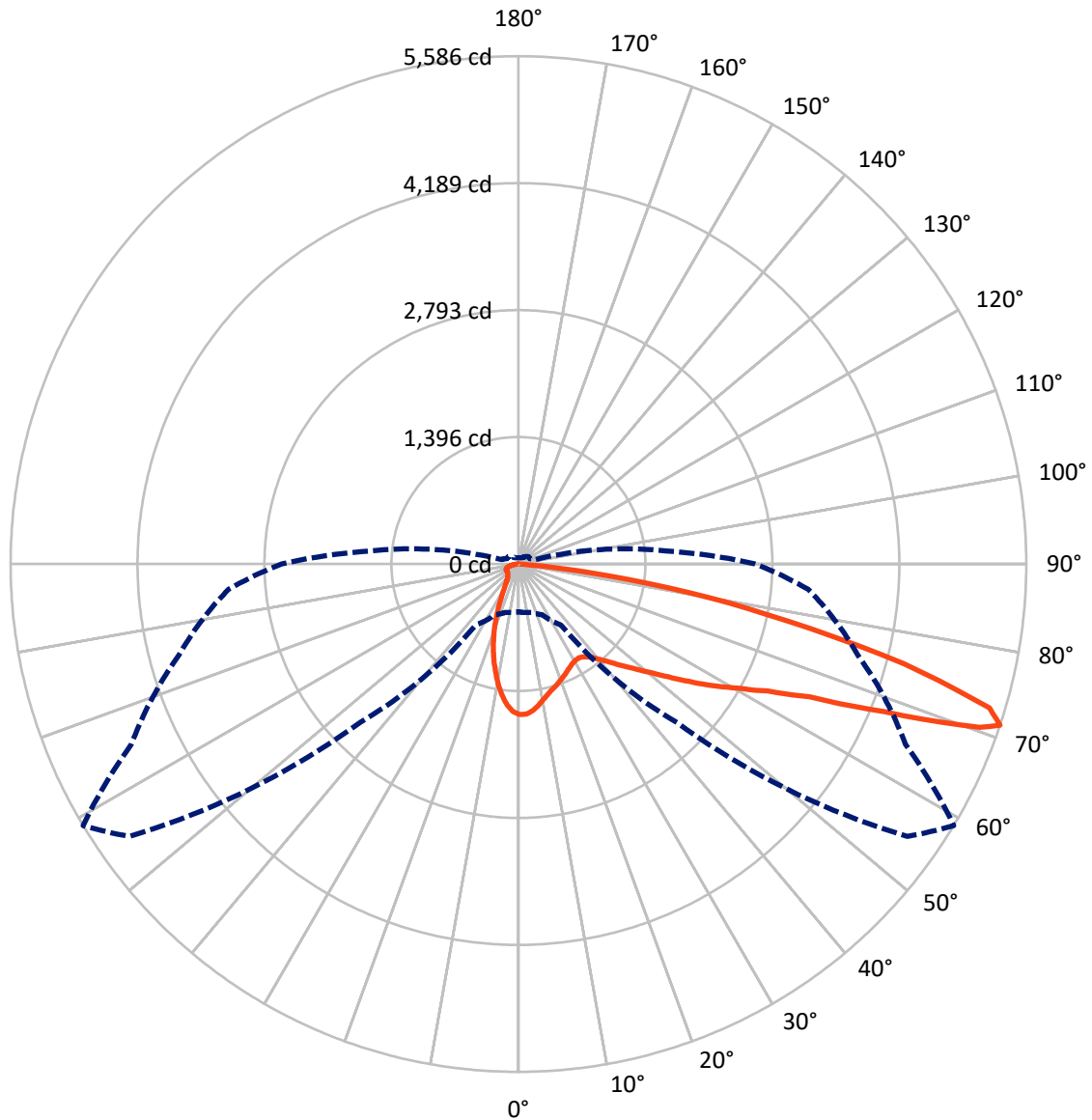


Based on 10 foot mounting height. Maximum calculated value = 16.6 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	979.5	0.0	979.5
	% Fixture	17.0	0.0	17.0
<b>Street Side</b>	Lumens	4791.5	0.0	4791.5
	% Fixture	83.0	0.0	83.0
<b>Total</b>	Lumens	5771.0	0.0	5771.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	2.5
10°-20°	321.4	5.6
20°-30°	408.5	7.1
30°-40°	522.2	9.0
40°-50°	724.7	12.6
50°-60°	1072.9	18.6
60°-70°	1450.2	25.1
70°-80°	1028.3	17.8
80°-90°	99.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5771.0	100.0
0°-180°	5771.0	100.0



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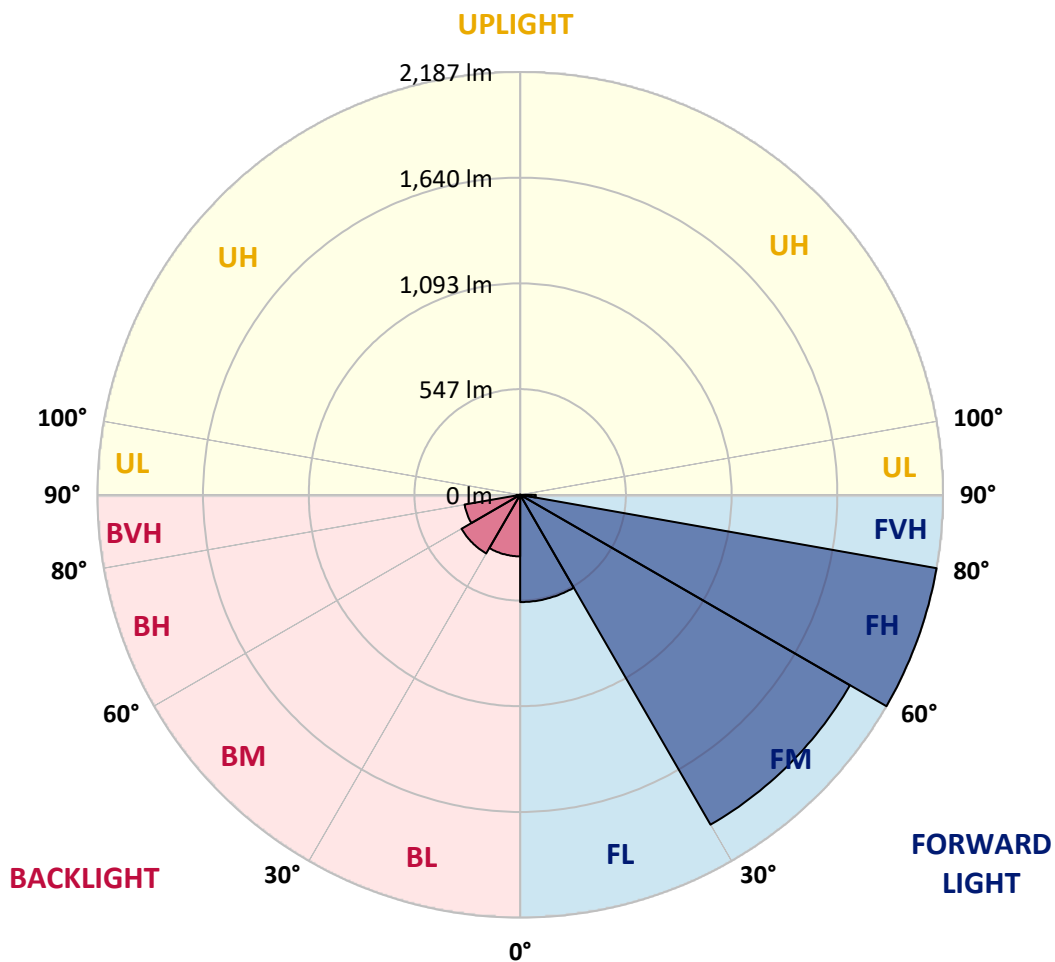
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	554.7	9.6			
FM	(30°-60°)	1969.4	34.1			
FH	(60°-80°)	2186.6	37.9			G2/5000
FVH	(80°-90°)	80.9	1.4			G1/100
BL	(0°-30°)	318.2	5.5	B1/500		
BM	(30°-60°)	350.3	6.1	B1/1000		
BH	(60°-80°)	291.9	5.1	B1/500		G1/500
BVH	(80°-90°)	19.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7
2.5°	1641.5	1647.3	1649.8	1654.0	1654.0	1655.7	1654.0	1653.2	1656.5	1653.2	1644.0
5°	1568.7	1571.2	1578.8	1587.1	1595.5	1613.0	1618.1	1621.4	1628.9	1630.6	1621.4
7.5°	1470.0	1479.2	1489.3	1500.2	1517.7	1542.0	1562.9	1571.2	1585.4	1593.8	1580.4
10°	1386.4	1391.4	1396.5	1415.7	1443.3	1476.7	1498.5	1514.4	1536.9	1547.8	1535.3
12.5°	1302.8	1307.0	1317.0	1342.9	1371.4	1411.5	1450.8	1463.4	1490.1	1511.9	1501.8
15°	1238.4	1238.4	1245.9	1274.4	1304.5	1358.0	1404.0	1423.2	1456.7	1487.6	1475.1
17.5°	1181.6	1184.1	1189.1	1207.5	1249.3	1305.3	1363.9	1388.1	1429.9	1470.0	1453.3
20°	1149.8	1148.1	1151.5	1160.7	1194.1	1253.5	1323.7	1352.1	1404.0	1459.2	1432.4
22.5°	1138.9	1137.2	1134.7	1133.9	1155.6	1205.8	1281.1	1316.2	1380.6	1453.3	1413.2
25°	1147.3	1147.3	1139.7	1125.5	1135.6	1169.9	1242.6	1280.2	1354.7	1449.1	1395.6
27.5°	1169.9	1169.9	1159.0	1140.6	1136.4	1151.5	1209.2	1249.3	1332.9	1451.7	1381.4
30°	1200.8	1200.0	1189.1	1173.2	1160.7	1155.6	1193.3	1230.1	1317.9	1462.5	1374.7
32.5°	1235.9	1234.2	1229.2	1218.4	1203.3	1181.6	1194.9	1227.5	1314.5	1481.8	1375.6
35°	1277.7	1275.2	1277.7	1271.9	1257.7	1234.2	1225.9	1251.8	1331.2	1517.7	1389.8
37.5°	1314.5	1312.8	1325.4	1328.7	1325.4	1294.4	1283.6	1300.3	1370.5	1574.6	1419.0
40°	1345.5	1347.1	1369.7	1394.0	1399.0	1372.2	1364.7	1378.9	1434.1	1644.0	1471.7
42.5°	1379.7	1384.8	1418.2	1461.7	1478.4	1460.9	1465.0	1475.1	1514.4	1738.5	1547.8
45°	1413.2	1424.1	1470.0	1526.1	1568.7	1568.7	1582.9	1593.0	1618.1	1857.2	1659.0
47.5°	1471.7	1479.2	1529.4	1597.2	1662.4	1683.3	1722.6	1719.2	1738.5	1987.7	1789.5
50°	1547.8	1560.4	1611.4	1681.6	1764.4	1823.8	1868.9	1875.6	1883.1	2121.5	1944.2
52.5°	1653.2	1668.2	1710.0	1775.3	1873.1	1970.1	2065.4	2061.2	2051.2	2267.0	2121.5
55°	1759.4	1775.3	1814.6	1867.2	1982.6	2131.5	2287.0	2281.2	2235.2	2415.8	2285.3
57.5°	1867.2	1880.6	1921.6	1967.6	2103.9	2322.1	2521.2	2525.3	2430.8	2581.4	2447.6
60°	1912.4	1932.5	2033.7	2122.3	2292.9	2533.7	2760.3	2771.2	2634.0	2748.6	2626.5
62.5°	1708.4	1732.6	1899.9	2139.0	2552.1	2941.8	3071.4	3078.1	2879.1	2933.4	2822.2
65°	1264.3	1263.5	1436.6	1794.5	2500.3	3489.5	3625.8	3520.4	3183.4	3178.4	3080.6
67.5°	724.2	745.9	801.1	1070.3	1904.9	3590.7	4612.5	4337.4	3722.8	3559.7	3425.1
70°	583.7	578.7	595.4	667.3	1038.6	2952.6	5255.6	5381.0	4488.8	3870.8	3347.3
71°	526.0	533.5	550.2	615.4	819.5	2463.5	5223.8	5585.9	4697.8	3862.4	3199.3
72.5°	452.4	454.1	492.5	569.5	673.1	1737.6	4829.9	5416.9	4916.9	3752.9	2981.9
75°	307.7	311.9	372.1	458.2	614.6	825.3	3456.0	4381.7	4475.4	3507.0	2462.6
77.5°	176.4	179.8	223.3	335.3	523.5	582.0	2121.5	3027.9	3217.7	2564.6	1320.4
80°	91.1	95.3	123.8	211.6	399.7	470.8	1216.7	1904.0	1830.5	886.4	306.1
82.5°	24.2	27.6	36.0	76.1	193.2	306.9	539.4	787.7	562.8	184.0	111.2
85°	0.0	0.0	0.0	0.8	1.7	42.6	113.7	141.3	78.6	36.0	30.1
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	1.7	1.7	1.7	2.5	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7
2.5°	1642.3	1642.3	1637.3	1629.8	1621.4	1602.2	1605.5	1590.5	1592.1	1590.5	1590.5
5°	1613.9	1608.9	1596.3	1572.9	1547.0	1512.7	1507.7	1480.1	1464.2	1459.2	1465.0
7.5°	1574.6	1560.4	1528.6	1487.6	1438.3	1394.0	1353.0	1316.2	1288.6	1276.9	1271.9
10°	1522.7	1505.2	1453.3	1381.4	1313.7	1244.3	1179.9	1138.1	1082.9	1066.2	1061.1
12.5°	1480.1	1450.0	1372.2	1271.9	1166.5	1074.5	987.6	899.8	847.1	809.4	803.6
15°	1443.3	1400.6	1289.4	1159.8	1028.5	901.4	783.5	665.6	591.2	559.4	536.8
17.5°	1410.7	1355.5	1206.6	1038.6	876.3	708.3	564.4	451.6	404.7	380.5	381.3
20°	1377.2	1307.0	1120.5	917.3	725.8	539.4	398.9	346.2	322.8	317.8	315.2
22.5°	1345.5	1251.8	1029.4	797.7	572.0	396.4	321.1	295.2	289.3	289.3	289.3
25°	1309.5	1195.8	937.4	675.7	433.2	312.7	275.9	266.7	268.4	271.8	272.6
27.5°	1280.2	1147.3	846.2	534.3	336.2	265.9	246.7	245.0	251.7	259.2	259.2
30°	1254.3	1103.0	747.6	417.3	267.6	233.3	226.6	229.1	235.8	242.5	245.0
32.5°	1236.7	1062.8	658.9	324.4	228.3	210.7	209.1	212.4	219.1	222.4	224.9
35°	1229.2	1033.5	563.6	261.7	203.2	194.0	193.2	195.7	199.0	199.9	199.0
37.5°	1237.6	1013.5	465.8	221.6	187.3	182.3	181.5	181.5	181.5	182.3	181.5
40°	1261.8	1006.0	378.0	195.7	177.3	173.1	170.6	168.1	166.4	166.4	165.6
42.5°	1312.8	1017.7	303.5	180.6	169.7	164.7	159.7	156.4	153.9	153.0	153.0
45°	1394.8	1050.3	252.5	170.6	163.1	155.5	149.7	146.3	143.8	144.7	143.8
47.5°	1507.7	1104.6	223.3	163.9	156.4	146.3	140.5	137.1	136.3	138.8	139.6
50°	1635.6	1181.6	205.7	158.9	151.4	138.8	132.1	129.6	130.4	135.5	136.3
52.5°	1786.1	1281.1	198.2	155.5	147.2	132.1	126.3	123.8	125.4	131.3	132.1
55°	1948.4	1394.8	209.1	157.2	143.0	127.9	121.2	117.9	120.4	125.4	126.3
57.5°	2113.1	1535.3	245.8	158.0	138.0	124.6	116.2	111.2	112.9	117.1	117.9
60°	2279.5	1674.9	309.4	158.9	136.3	121.2	112.1	104.5	105.4	107.9	108.7
62.5°	2475.2	1852.2	393.0	162.2	138.0	118.7	104.5	96.2	96.2	97.8	97.8
65°	2772.0	2116.4	448.2	160.6	142.2	116.2	97.0	88.6	87.8	88.6	88.6
67.5°	2985.3	2151.6	312.7	151.4	144.7	117.1	92.8	81.9	80.3	79.4	79.4
70°	2759.5	1810.4	206.5	143.0	140.5	118.7	89.5	77.8	74.4	71.9	71.1
71°	2603.1	1631.4	191.5	139.6	137.1	117.1	87.8	75.3	71.9	70.2	69.4
72.5°	2371.5	1455.8	176.4	134.6	129.6	113.7	85.3	72.7	68.6	66.1	65.2
75°	1873.9	1116.3	154.7	123.8	112.1	93.7	78.6	67.7	63.6	60.2	59.4
77.5°	847.1	444.0	118.7	107.0	91.1	74.4	68.6	62.7	57.7	55.2	54.4
80°	236.6	168.9	87.0	84.5	68.6	57.7	55.2	53.5	51.8	48.5	48.5
82.5°	109.5	98.7	61.9	59.4	46.8	41.0	43.5	44.3	44.3	41.0	40.1
85°	30.1	32.6	28.4	31.8	30.1	27.6	31.8	34.3	36.0	32.6	30.1
87.5°	2.5	5.9	7.5	12.5	15.1	15.9	20.1	24.2	25.1	20.1	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)