

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: P401298

Luminaire Tested: **ENV-SA1C-735-U-T2**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1C-735-U-T2  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4218 lumens  
Efficiency: N/A  
Efficacy: 126.7 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 - G1

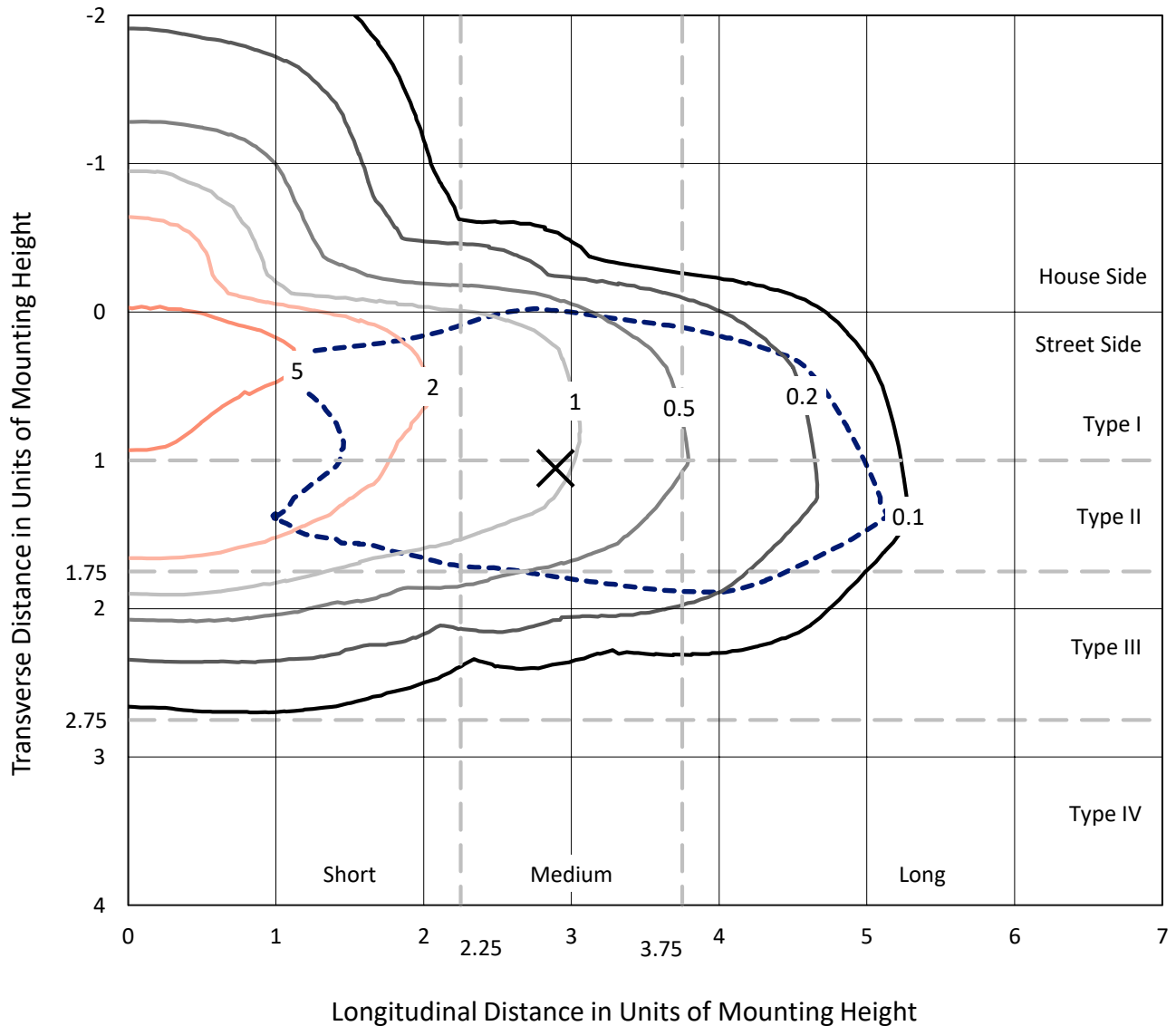
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

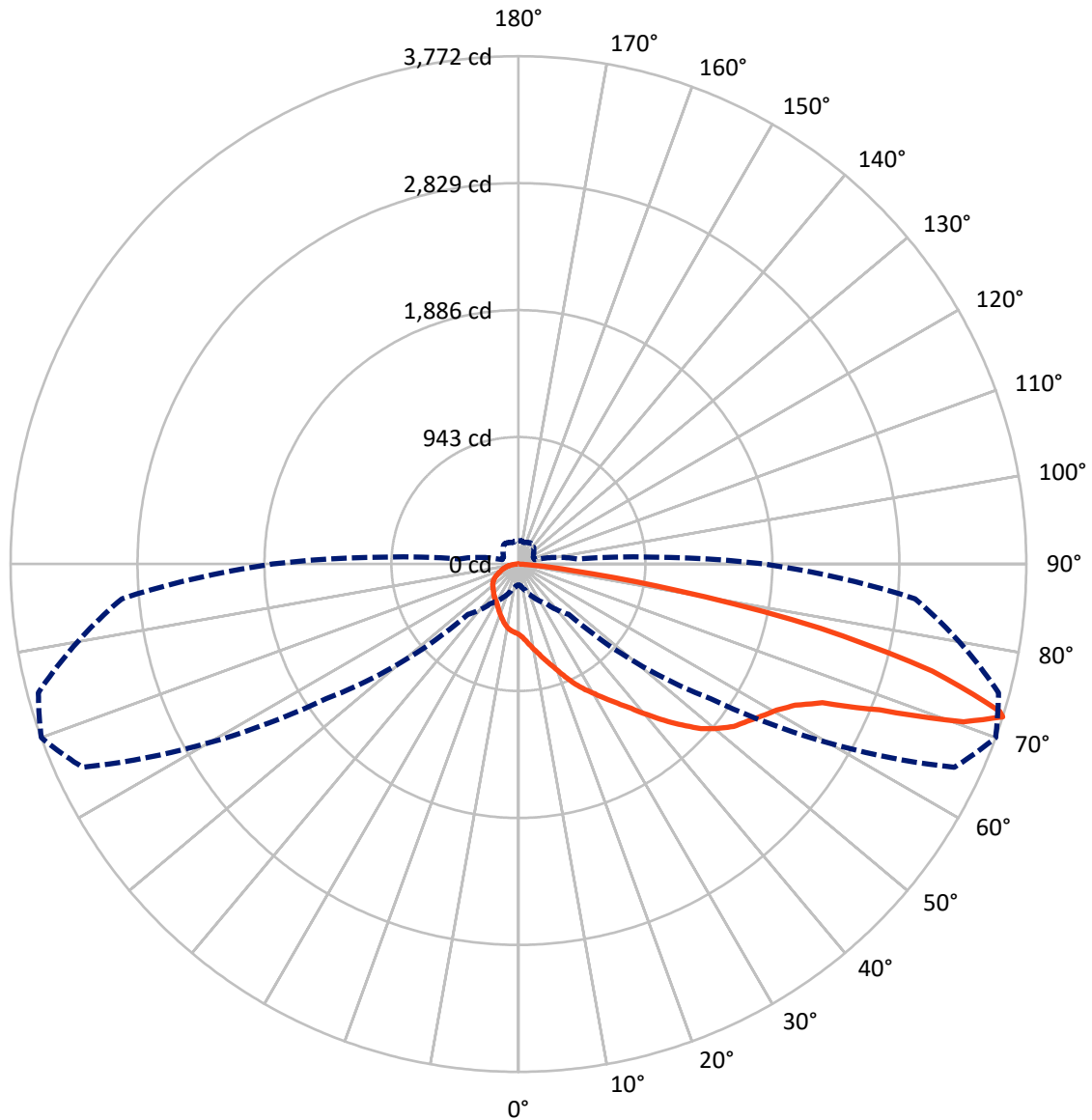
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	783.8	0.0	783.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	3434.2	0.0	3434.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	4218.0	0.0	4218.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.5	1.2
10°-20°	168.5	4.0
20°-30°	298.3	7.1
30°-40°	443.5	10.5
40°-50°	643.4	15.3
50°-60°	879.0	20.8
60°-70°	962.4	22.8
70°-80°	684.5	16.2
80°-90°	85.9	2.0
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°	4218.0	100.0
0°-180°	4218.0	100.0



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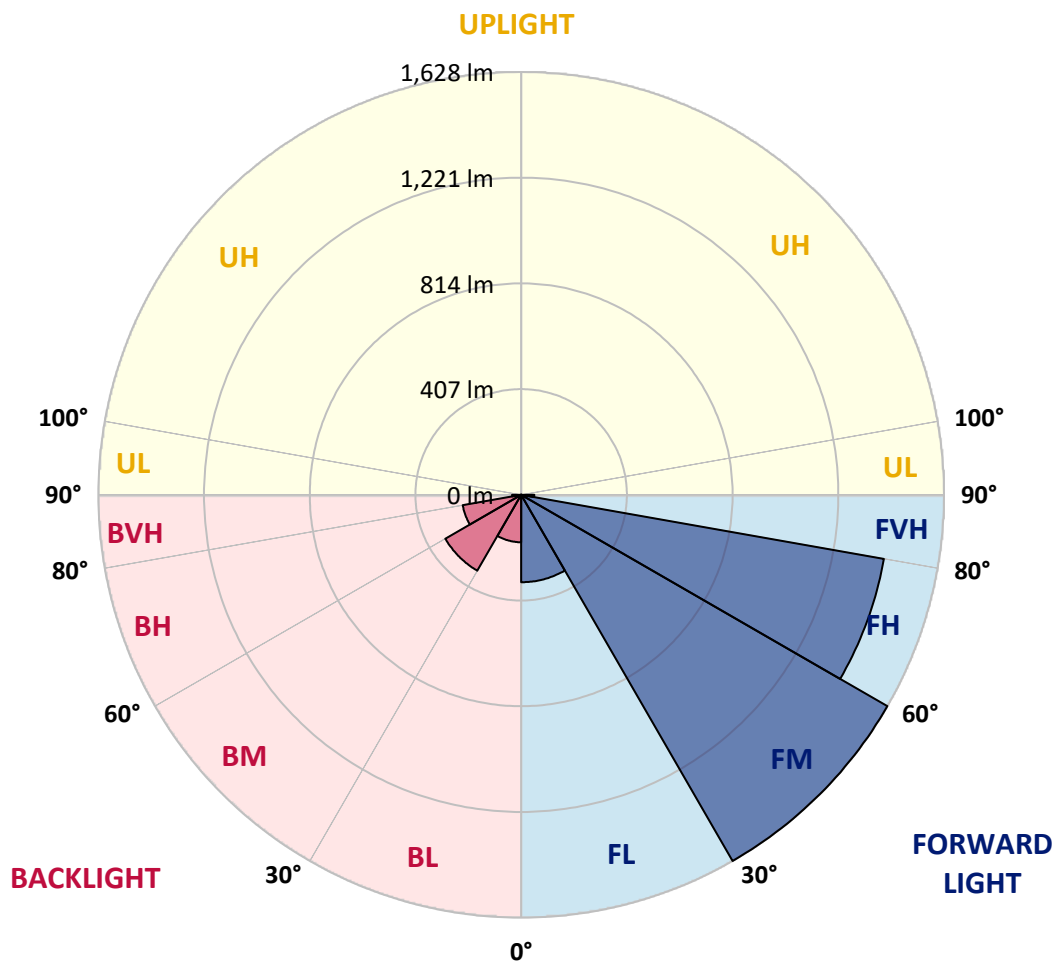
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.7	8.0			
FM	(30°-60°)	1628.4	38.6			
FH	(60°-80°)	1418.4	33.6			G1/1800
FVH	(80°-90°)	50.8	1.2			G1/100
BL	(0°-30°)	182.6	4.3	B1/500		
BM	(30°-60°)	337.5	8.0	B1/1000		
BH	(60°-80°)	228.5	5.4	B1/500		G1/500
BVH	(80°-90°)	35.2	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4
2.5°	580.8	577.8	578.4	573.0	570.0	562.7	554.9	546.5	542.3	539.2	529.0
5°	637.4	637.4	639.9	635.6	624.2	612.1	598.3	579.6	571.8	560.9	540.4
7.5°	684.4	685.6	685.6	684.4	674.2	660.9	642.9	620.0	607.3	591.7	559.7
10°	708.5	711.6	714.0	715.8	714.6	706.7	686.2	662.8	645.3	624.8	582.0
12.5°	720.6	721.8	726.0	735.1	742.3	748.3	733.2	705.5	688.1	663.4	606.1
15°	733.8	733.8	738.1	749.5	763.4	779.6	777.8	756.1	737.5	706.7	636.8
17.5°	742.3	744.7	752.5	764.6	783.9	811.0	824.8	812.8	788.7	756.1	670.0
20°	737.5	739.3	754.9	778.4	803.1	838.1	873.0	873.0	850.1	812.8	706.7
22.5°	746.5	749.5	760.4	782.7	816.4	861.6	918.8	938.7	918.8	877.8	749.5
25°	781.4	780.2	789.3	798.3	827.2	883.3	958.0	1009.2	991.1	945.9	791.1
27.5°	832.1	832.1	836.9	836.3	846.5	901.3	992.3	1071.2	1056.2	1002.0	825.4
30°	890.5	891.7	890.5	889.9	888.1	926.0	1023.0	1126.7	1118.8	1065.2	856.8
32.5°	961.6	964.6	959.8	947.7	940.5	961.6	1049.0	1188.7	1191.1	1127.9	887.5
35°	1050.8	1055.6	1037.5	1020.0	1002.0	1011.6	1079.1	1247.2	1271.3	1199.0	924.8
37.5°	1139.9	1147.8	1144.8	1097.8	1072.5	1071.9	1123.7	1320.1	1360.4	1291.8	977.9
40°	1215.2	1221.9	1225.5	1182.7	1147.8	1146.6	1189.3	1396.0	1470.1	1398.4	1040.5
42.5°	1265.3	1271.3	1282.1	1256.8	1224.3	1239.3	1261.6	1471.3	1588.2	1528.5	1117.6
45°	1319.5	1324.3	1330.9	1316.5	1299.6	1343.0	1353.2	1555.1	1706.3	1668.3	1208.0
47.5°	1377.3	1382.1	1385.8	1374.9	1368.9	1429.7	1443.0	1640.6	1825.6	1812.9	1296.0
50°	1441.2	1443.0	1446.6	1441.2	1443.0	1508.7	1517.1	1715.9	1920.2	1963.6	1387.6
52.5°	1550.8	1553.2	1554.5	1528.5	1519.5	1558.7	1576.7	1796.1	2003.3	2088.9	1468.3
55°	1637.6	1646.0	1684.0	1667.1	1645.4	1594.2	1626.2	1860.5	2062.4	2205.8	1552.6
57.5°	1566.5	1585.8	1680.4	1759.9	1820.8	1698.5	1684.6	1926.8	2130.4	2306.4	1650.9
60°	1359.8	1388.2	1525.5	1691.2	1888.2	1937.6	1804.5	2009.3	2204.6	2411.2	1756.3
62.5°	942.9	971.8	1161.6	1426.1	1774.4	2074.4	2132.9	2155.8	2307.6	2518.5	1893.7
65°	451.9	481.4	638.0	917.0	1401.4	1986.4	2515.4	2459.4	2481.1	2654.6	2096.1
67.5°	287.4	303.1	364.5	499.5	815.2	1547.2	2652.8	3064.3	2892.0	2968.5	2499.2
70°	210.3	213.9	266.9	345.8	483.8	903.8	2342.5	3643.3	3508.4	3499.9	2985.4
72°	155.4	161.5	202.4	275.9	357.9	528.4	1743.0	3572.8	3772.3	3692.1	2956.5
72.5°	146.4	151.2	186.8	260.9	338.0	463.9	1561.7	3490.9	3739.7	3697.6	2901.0
75°	106.6	110.3	127.7	185.6	261.5	268.7	833.9	2679.3	3175.8	3530.1	2629.9
77.5°	73.5	75.9	85.0	113.9	178.9	182.0	353.7	1829.2	2291.9	2822.7	2022.6
80°	44.6	45.8	51.2	62.1	113.9	107.8	145.8	956.2	1196.0	1534.6	938.1
82.5°	18.7	19.3	22.3	24.7	48.2	51.2	59.0	312.1	395.8	479.6	270.5
85°	0.0	0.0	0.6	0.6	1.2	5.4	8.4	38.6	58.4	69.9	48.8
87.5°	0.0	0.0	0.6	0.6	0.6	1.2	1.2	1.8	2.4	2.4	3.6
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°	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4	522.4
2.5°	524.2	521.8	514.5	508.5	503.7	495.9	495.3	489.2	489.2	487.4	486.2
5°	532.6	524.8	510.3	497.1	487.4	476.0	470.6	463.9	459.7	457.3	457.9
7.5°	543.5	530.2	505.5	483.2	465.1	450.7	442.2	436.8	433.8	432.6	432.6
10°	558.5	538.0	497.7	463.9	441.0	430.2	426.0	425.4	426.0	426.6	427.2
12.5°	575.4	543.5	483.2	441.0	423.0	418.7	421.1	426.6	431.4	433.2	433.2
15°	592.9	547.1	463.3	419.9	409.1	413.3	421.8	432.0	439.8	444.6	445.9
17.5°	610.9	547.7	442.2	400.7	397.0	407.9	423.0	439.2	451.9	459.7	460.9
20°	630.2	546.5	417.5	383.2	385.0	403.1	424.2	446.5	463.3	473.6	474.8
22.5°	651.3	541.6	393.4	366.3	374.8	398.3	423.0	448.9	466.9	479.0	481.4
25°	671.8	532.0	369.3	351.3	367.5	393.4	416.9	439.2	456.7	468.1	471.2
27.5°	682.6	511.5	346.4	339.8	362.1	386.2	403.1	418.1	427.8	435.0	438.0
30°	684.4	482.6	327.8	332.0	356.1	376.0	385.6	388.0	386.2	388.6	385.6
32.5°	680.8	451.3	312.7	326.0	346.4	361.5	363.9	356.7	345.8	330.8	331.4
35°	678.4	416.9	300.6	317.5	333.8	343.4	339.2	327.8	307.3	289.2	288.0
37.5°	682.6	385.6	290.4	306.7	317.5	321.7	315.7	300.6	282.6	266.9	265.1
40°	694.7	362.7	280.8	294.6	300.0	303.1	295.8	282.6	275.3	263.9	262.1
42.5°	718.2	347.0	271.7	281.4	283.8	286.8	279.6	270.5	277.2	274.7	274.7
45°	750.7	339.8	263.9	268.7	271.1	275.9	271.7	263.9	271.1	257.3	254.9
47.5°	792.9	342.2	258.5	256.1	263.3	271.7	266.9	257.3	254.9	230.2	225.9
50°	837.5	354.9	253.1	245.8	254.9	266.3	260.3	245.2	230.8	218.1	215.7
52.5°	889.9	376.0	248.2	234.4	245.2	260.3	256.1	239.8	224.7	215.7	213.9
55°	947.7	396.4	242.2	221.1	232.6	258.5	257.3	236.2	216.3	212.1	210.9
57.5°	1012.8	413.3	235.0	206.1	219.9	253.1	251.8	227.7	213.9	210.3	209.7
60°	1094.1	433.2	222.3	188.6	207.3	242.8	241.6	223.5	208.5	205.5	204.2
62.5°	1205.0	470.0	200.6	172.3	194.0	224.7	232.0	215.1	200.6	200.0	200.0
65°	1387.6	541.0	178.3	158.5	178.9	207.3	219.3	205.5	193.4	196.4	196.4
67.5°	1732.8	636.8	155.4	145.2	164.5	190.4	208.5	195.8	185.6	191.6	191.6
70°	1999.1	601.3	137.4	132.6	150.0	175.3	194.6	185.6	175.9	186.2	185.0
72°	1823.8	440.4	125.3	122.3	138.0	162.7	182.6	175.9	165.7	174.1	171.7
72.5°	1750.9	400.1	121.7	119.3	134.4	160.3	180.1	173.5	162.7	171.1	167.5
75°	1527.3	337.4	106.0	104.8	119.3	144.0	164.5	160.9	150.0	154.8	151.2
77.5°	1264.0	284.4	89.2	91.6	101.8	128.3	148.2	144.6	134.4	133.8	133.2
80°	592.9	158.5	73.5	75.3	85.6	109.7	127.7	125.3	115.7	114.5	112.7
82.5°	171.7	75.9	56.6	57.8	68.7	89.8	109.7	108.5	101.2	99.4	95.2
85°	31.9	24.7	30.7	36.2	50.0	74.7	100.0	97.6	86.8	78.9	72.9
87.5°	1.8	4.8	10.2	17.5	31.9	56.0	80.7	78.9	69.3	59.6	60.3
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)