

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: STREETWORKS

Report Number: P198878

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL3-7050
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6041 lumens
Efficiency: N/A
Efficacy: 104.2 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

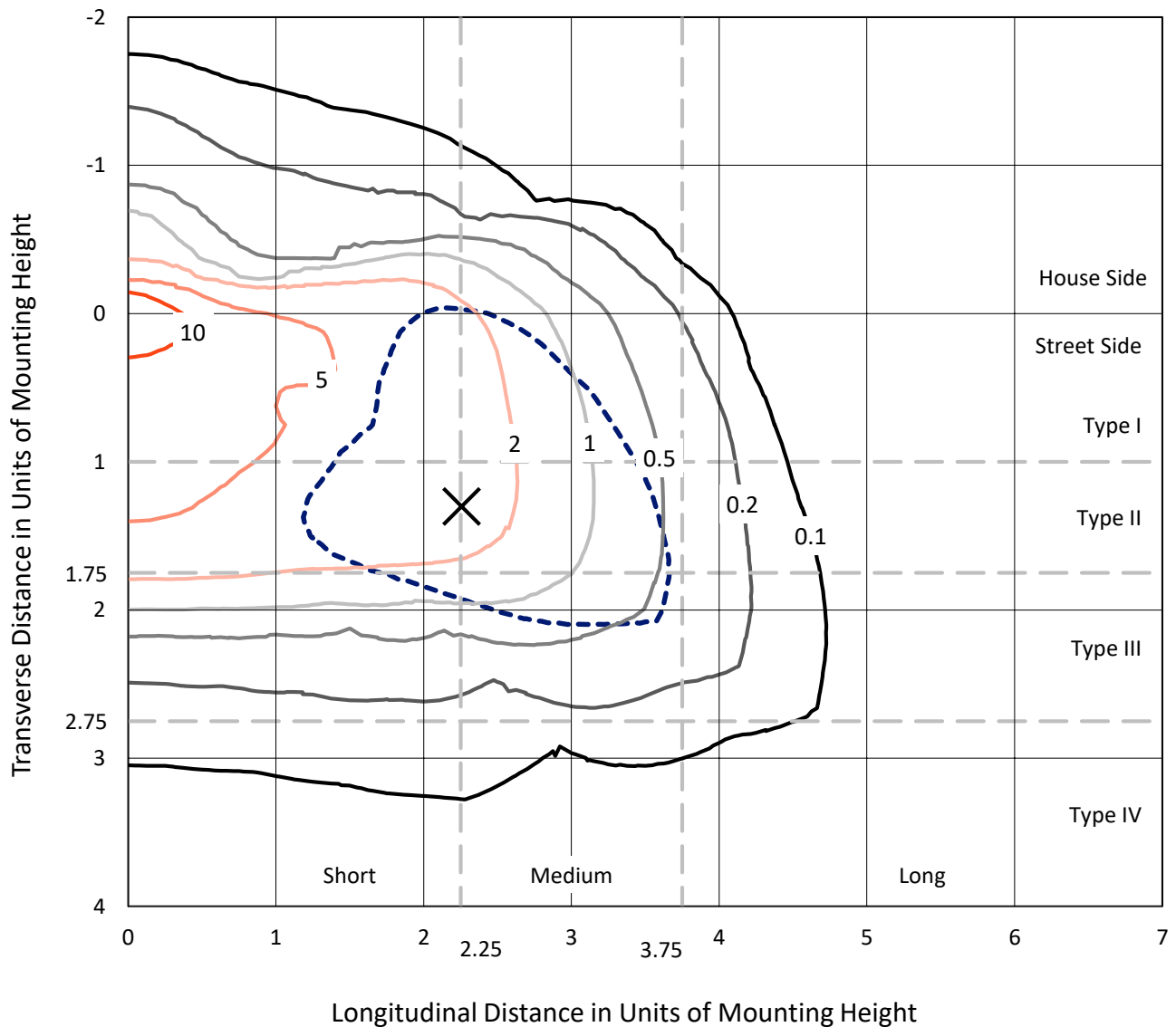
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

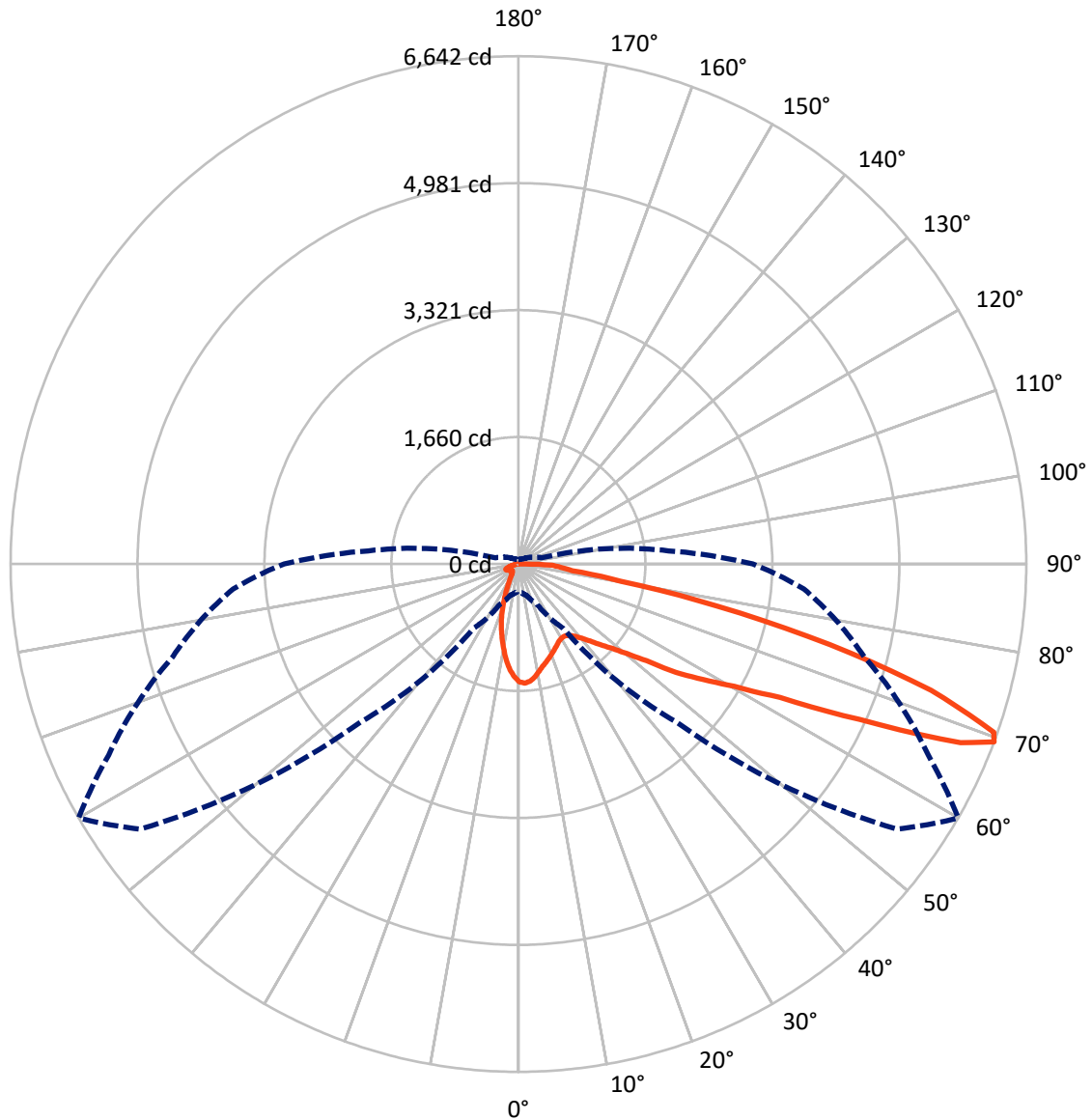
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	861.6	0.0	861.6
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	5179.4	0.0	5179.4
	% Fixture	85.7	0.0	85.7
Total	Lumens	6041.0	0.0	6041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	2.2
10°-20°	280.0	4.6
20°-30°	357.2	5.9
30°-40°	491.5	8.1
40°-50°	796.1	13.2
50°-60°	1249.5	20.7
60°-70°	1665.8	27.6
70°-80°	926.6	15.3
80°-90°	143.7	2.4
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°	6041.0	100.0
0°-180°	6041.0	100.0

Coefficient of Utilization



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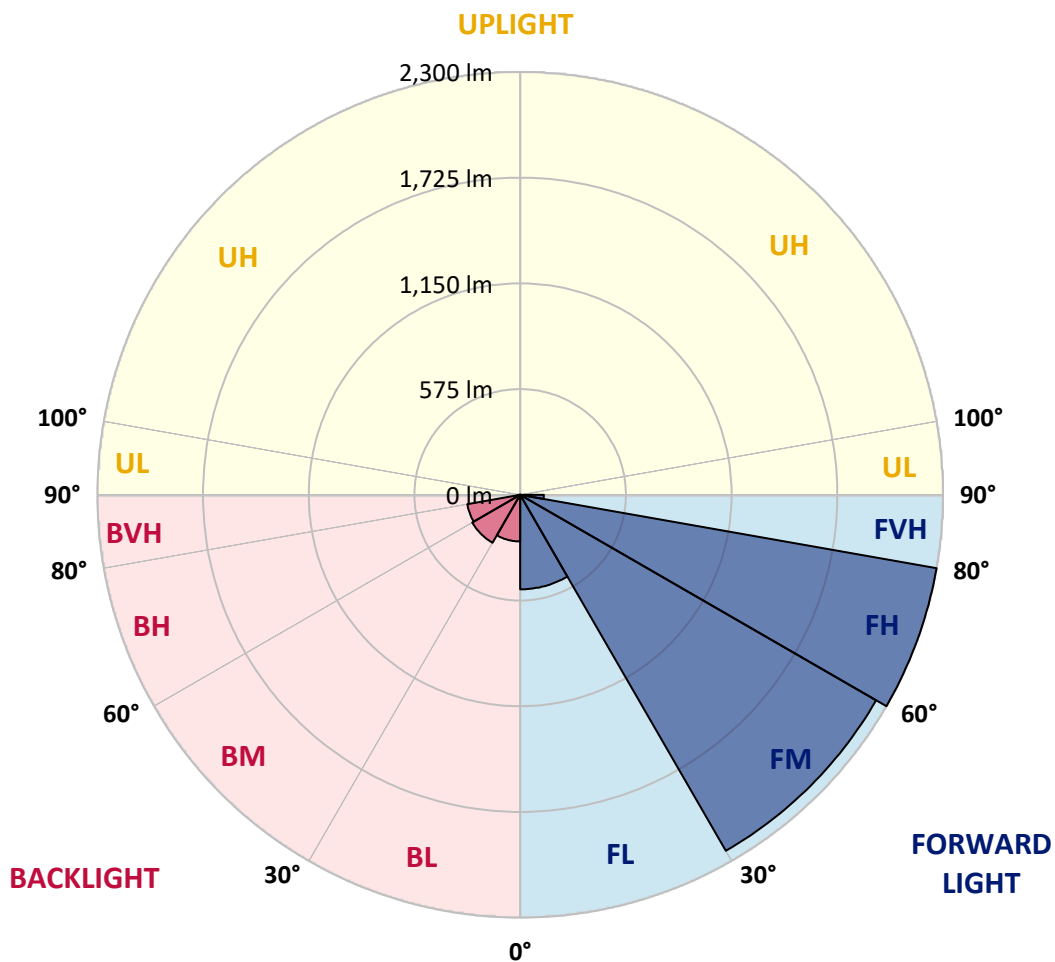
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.0	8.5			
FM	(30°-60°)	2236.1	37.0			
FH	(60°-80°)	2300.2	38.1			G2/5000
FVH	(80°-90°)	129.1	2.1			G2/225
BL	(0°-30°)	253.9	4.2	B1/500		
BM	(30°-60°)	301.0	5.0	B1/1000		
BH	(60°-80°)	292.1	4.8	B1/500		G1/500
BVH	(80°-90°)	14.6	0.2			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°	60°	65°	75°	85°
0°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1582.4	1586.7	1586.7	1583.2	1581.3	1570.0	1563.5	1558.8	1550.7	1535.6	1522.0
5°	1525.9	1534.0	1537.5	1539.1	1549.1	1545.6	1546.0	1542.9	1536.0	1519.7	1497.6
7.5°	1422.1	1423.6	1429.8	1440.3	1464.7	1481.7	1495.7	1498.4	1496.8	1484.8	1453.8
10°	1319.8	1322.5	1329.9	1347.7	1370.9	1395.3	1425.6	1438.0	1447.2	1443.4	1404.2
12.5°	1235.0	1235.4	1243.5	1264.0	1290.0	1320.6	1361.6	1381.0	1403.1	1412.0	1368.2
15°	1153.2	1158.7	1166.4	1191.2	1223.3	1262.1	1309.3	1336.1	1365.1	1390.7	1340.3
17.5°	1091.2	1095.5	1100.2	1120.7	1157.9	1206.3	1264.8	1293.5	1331.8	1370.9	1311.7
20°	1057.2	1058.7	1055.2	1065.3	1096.7	1149.0	1216.8	1251.2	1296.9	1352.0	1282.2
22.5°	1050.2	1050.2	1037.4	1035.5	1049.4	1093.6	1167.2	1209.4	1265.2	1338.8	1255.9
25°	1082.7	1080.4	1056.4	1034.3	1029.3	1051.7	1119.9	1171.8	1238.1	1338.4	1236.1
27.5°	1144.3	1141.2	1111.4	1074.2	1042.0	1032.4	1083.5	1136.6	1216.8	1351.6	1226.1
30°	1221.0	1219.9	1189.6	1143.2	1090.1	1040.1	1069.2	1118.4	1202.4	1376.0	1225.7
32.5°	1305.1	1299.7	1281.1	1234.6	1165.6	1083.1	1077.7	1119.1	1198.6	1411.6	1234.6
35°	1394.6	1390.7	1386.0	1339.2	1261.7	1159.0	1115.3	1145.9	1217.5	1461.2	1259.8
37.5°	1508.5	1504.2	1511.9	1460.8	1376.0	1258.6	1178.8	1199.3	1256.3	1533.2	1306.6
40°	1711.1	1698.7	1677.0	1598.3	1509.2	1380.6	1270.6	1273.7	1322.5	1629.7	1381.8
42.5°	2043.8	2003.9	1896.6	1752.1	1649.8	1522.4	1390.3	1375.6	1413.9	1757.2	1491.0
45°	2377.3	2332.4	2151.1	1919.8	1795.5	1674.6	1538.3	1503.0	1527.8	1905.5	1631.6
47.5°	2592.7	2570.6	2366.1	2087.6	1948.1	1840.4	1707.6	1649.5	1667.3	2073.6	1805.2
50°	2655.9	2636.9	2476.1	2218.9	2092.2	2040.7	1917.1	1840.0	1843.1	2270.0	2013.2
52.5°	2608.6	2600.9	2494.3	2300.3	2224.7	2251.8	2207.3	2100.0	2074.4	2485.4	2238.7
55°	2545.5	2548.2	2507.1	2382.0	2359.5	2448.6	2586.9	2500.5	2392.1	2709.7	2473.4
57.5°	2346.7	2348.7	2456.4	2537.7	2616.7	2724.4	2882.5	2846.1	2719.8	2951.8	2736.4
60°	1889.6	1904.7	2144.5	2505.6	2910.8	3267.9	3306.7	3243.9	3068.4	3230.7	3078.5
62.5°	1350.0	1363.6	1641.3	2175.1	2876.3	3883.1	4089.9	3840.5	3541.4	3647.9	3559.6
65°	709.3	707.0	922.0	1503.0	2422.7	4025.6	5324.1	4899.6	4338.3	4221.7	4024.5
67.5°	396.3	409.1	492.4	758.1	1579.0	3543.0	6112.5	6237.6	5446.2	4676.8	4004.3
69°	366.5	370.7	426.5	586.1	1029.3	2923.2	6044.7	6641.6	5913.3	4678.8	3746.3
70°	356.0	360.6	411.4	540.0	864.6	2395.2	5797.9	6594.3	6026.8	4574.9	3511.6
72.5°	319.2	325.4	374.6	485.4	728.7	1234.6	4670.2	5644.1	5459.3	3998.5	2722.9
75°	272.3	282.8	357.2	481.9	690.3	784.8	3114.5	4205.0	4063.2	2859.6	1544.9
77.5°	112.7	113.9	156.1	352.9	724.4	751.1	1673.9	2663.6	2358.0	1253.9	465.2
80°	78.6	77.1	77.9	103.0	584.6	756.2	858.8	1354.7	1052.9	330.8	217.7
82.5°	66.2	65.5	68.6	64.7	198.0	858.0	718.2	706.2	495.8	178.2	103.8
85°	43.8	42.6	56.2	58.9	94.1	681.4	772.4	555.1	369.6	95.3	44.2
87.5°	21.3	21.7	32.2	39.9	50.0	215.8	739.9	438.9	285.5	41.4	17.8
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°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1516.6	1505.0	1494.5	1481.3	1471.3	1462.7	1451.1	1450.7	1448.8	1451.5	1452.3
5°	1482.9	1463.5	1434.1	1401.1	1377.9	1347.3	1317.5	1307.4	1296.2	1295.0	1298.5
7.5°	1432.1	1401.9	1351.6	1301.2	1250.8	1199.3	1150.5	1125.7	1101.7	1094.3	1097.8
10°	1375.6	1337.2	1260.1	1178.0	1107.1	1030.4	956.1	908.0	864.2	845.6	850.3
12.5°	1331.4	1282.6	1174.1	1067.6	961.5	851.5	753.5	658.5	586.9	554.7	556.7
15°	1293.5	1231.1	1093.6	951.8	818.9	668.2	532.3	422.2	359.5	336.2	335.5
17.5°	1252.4	1176.9	1009.5	844.1	671.7	485.4	356.4	291.3	266.5	258.8	258.8
20°	1208.6	1121.1	921.6	726.7	516.8	339.0	268.1	242.9	233.6	231.3	230.9
22.5°	1167.9	1066.5	833.3	601.6	373.8	257.2	228.2	218.5	216.9	218.9	218.9
25°	1135.8	1018.4	743.8	469.9	271.9	215.4	203.0	201.8	207.6	214.6	215.8
27.5°	1111.8	975.4	655.4	343.2	213.8	187.5	183.2	188.3	201.8	215.8	218.5
30°	1095.1	938.6	549.7	246.8	178.2	164.2	166.2	175.1	195.6	216.9	222.7
32.5°	1087.8	908.8	443.2	189.4	152.2	144.5	149.5	161.1	182.5	203.8	210.7
35°	1094.7	887.1	344.8	157.3	133.3	127.4	133.3	145.3	159.2	169.7	173.9
37.5°	1119.9	879.3	259.5	139.5	120.9	115.1	119.7	127.8	134.0	137.9	139.8
40°	1173.0	887.5	203.4	130.2	113.9	107.3	108.5	112.3	116.6	119.7	120.1
42.5°	1257.4	914.2	180.9	126.7	109.6	101.1	99.2	101.9	106.5	110.8	111.6
45°	1369.8	958.8	178.6	127.8	107.7	96.1	92.2	94.9	101.1	108.1	109.2
47.5°	1515.0	1029.3	189.4	134.0	108.9	93.4	87.5	90.3	98.4	107.7	109.2
50°	1687.0	1126.9	209.6	143.3	114.3	93.4	85.6	87.9	96.5	106.9	108.5
52.5°	1889.6	1262.9	230.5	152.6	122.0	96.8	86.4	86.0	93.7	103.4	105.4
55°	2113.2	1431.8	250.6	160.8	126.3	101.5	88.3	83.7	89.9	97.6	99.2
57.5°	2376.2	1663.0	285.9	168.5	128.6	105.0	90.6	81.3	84.8	90.3	91.4
60°	2733.0	2002.7	354.5	181.7	132.9	106.5	91.0	79.0	78.6	82.5	82.9
62.5°	3198.2	2400.6	419.9	197.2	141.4	106.9	89.5	77.5	73.6	74.8	74.8
65°	3529.0	2547.0	400.9	210.3	149.1	106.5	87.9	76.3	69.7	67.8	67.8
67.5°	3340.8	2249.9	340.5	213.8	149.9	102.3	84.4	73.6	66.2	61.6	61.6
69°	3064.2	1972.1	312.6	207.6	143.7	97.2	80.6	70.9	63.9	58.5	58.5
70°	2838.7	1761.8	295.6	200.3	136.4	93.0	77.1	68.2	61.6	56.9	56.6
72.5°	2119.3	1175.7	252.6	172.8	112.0	78.6	67.4	60.8	55.4	52.3	52.3
75°	1118.4	589.2	206.9	141.0	86.4	62.8	55.4	51.1	48.0	47.6	47.3
77.5°	366.5	266.5	148.8	106.1	63.5	48.8	44.2	41.4	41.1	42.6	42.6
80°	198.0	159.2	95.7	71.7	44.2	36.4	34.1	33.7	34.9	37.2	37.2
82.5°	96.1	78.6	56.9	44.2	30.2	26.7	26.7	27.1	28.7	31.4	31.4
85°	41.4	37.2	32.9	24.8	18.6	16.7	19.0	20.9	22.1	24.0	24.8
87.5°	19.8	17.4	15.1	9.7	8.1	8.5	10.1	12.4	14.7	16.3	16.7
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)