

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: McGRAW-EDISON

Report Number: P299642

Luminaire Tested: **GLNA-AF-02-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-SL2-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7160.2 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

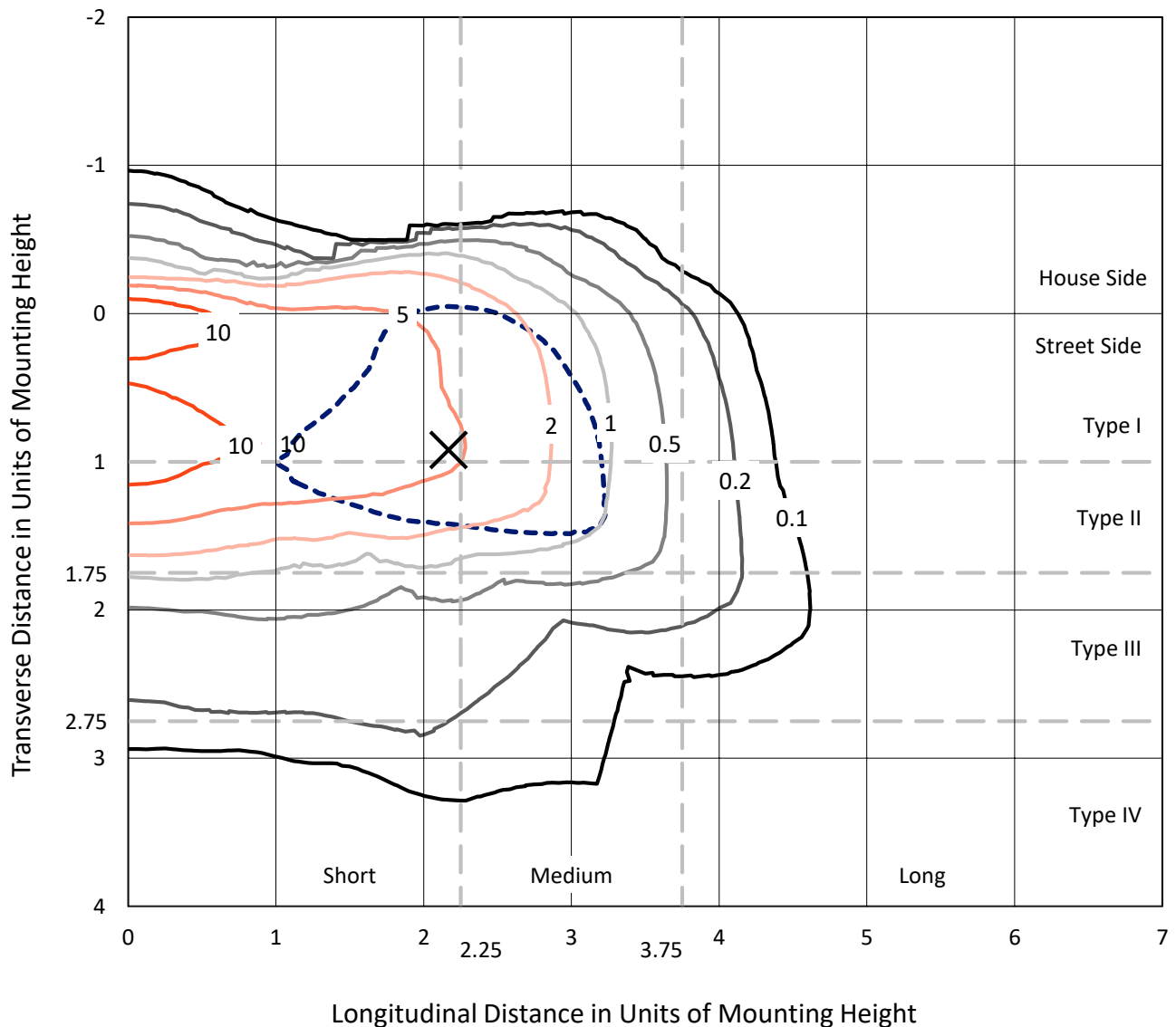


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

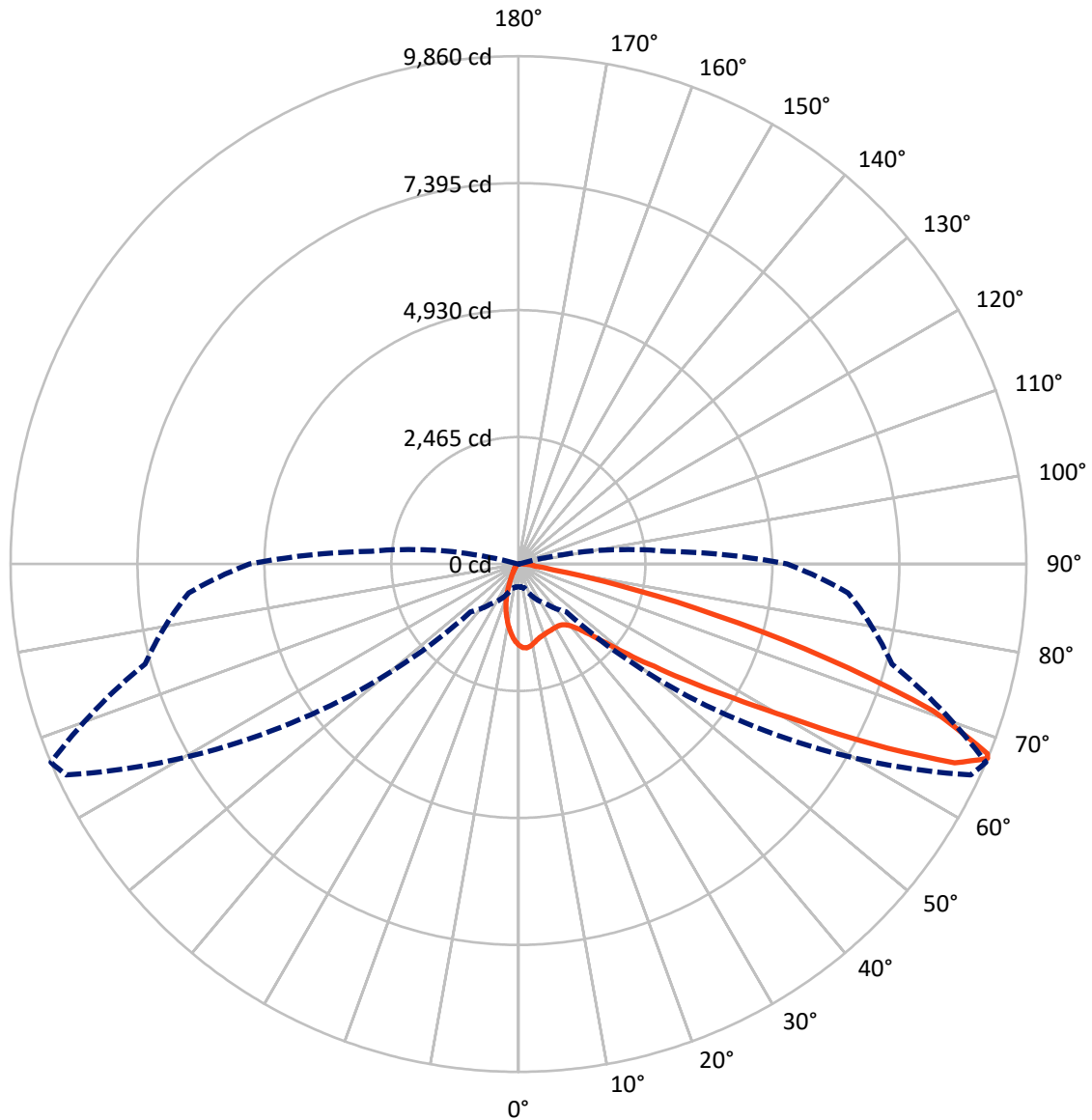


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	743.4	0.0	743.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	6416.8	0.0	6416.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	7160.2	0.0	7160.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	1.8
10°-20°	273.5	3.8
20°-30°	397.6	5.6
30°-40°	620.3	8.7
40°-50°	1098.8	15.3
50°-60°	1738.7	24.3
60°-70°	1991.5	27.8
70°-80°	826.1	11.5
80°-90°	85.3	1.2
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°	7160.2	100.0
0°-180°	7160.2	100.0



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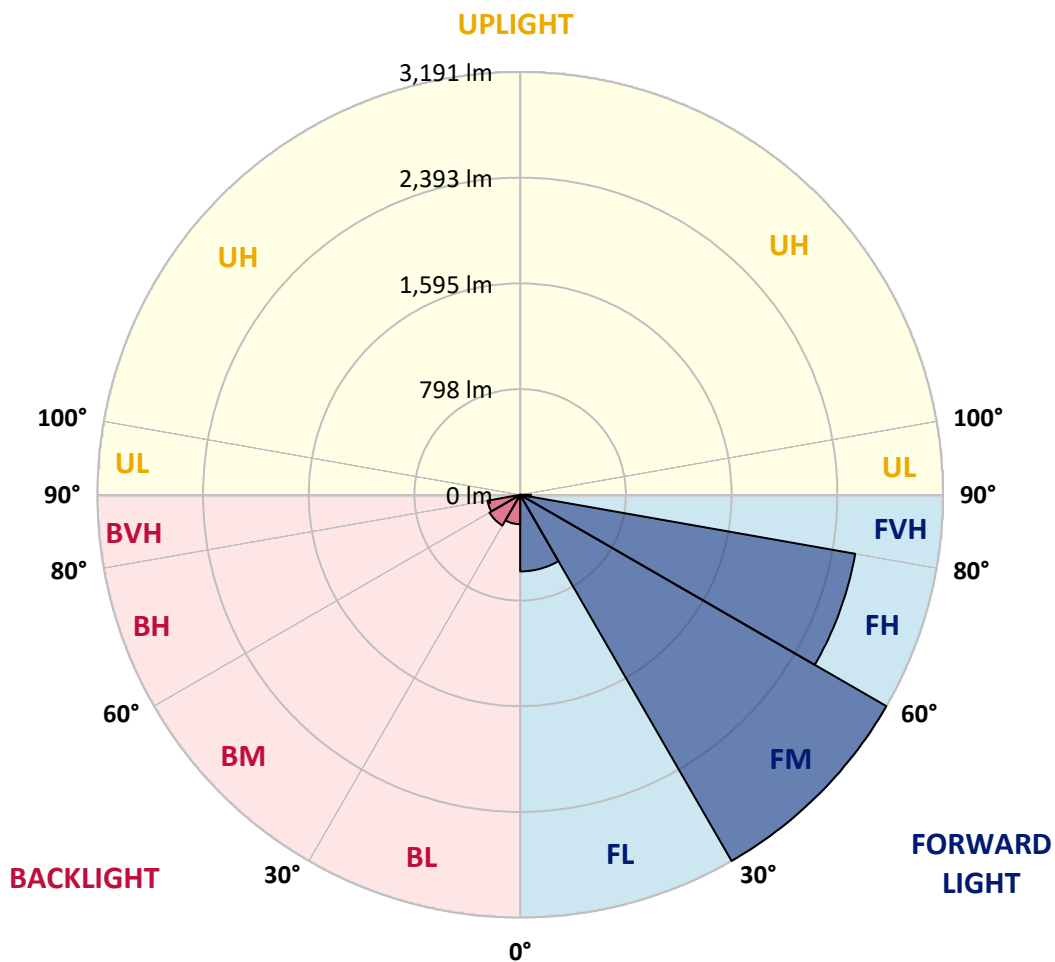
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.7	8.1			
FM (30°-60°)	3190.6	44.6			
FH (60°-80°)	2567.0	35.9			G2/5000
FVH (80°-90°)	81.5	1.1			G1/100
BL (0°-30°)	221.8	3.1	B1/500		
BM (30°-60°)	267.2	3.7	B1/1000		
BH (60°-80°)	250.6	3.5	B1/500		G1/500
BVH (80°-90°)	3.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1
2.5°	1632.6	1635.9	1635.5	1638.0	1643.8	1644.2	1638.4	1627.1	1624.6	1610.0	1584.5
5°	1505.6	1515.2	1521.0	1544.9	1571.6	1603.7	1628.0	1636.7	1635.5	1625.0	1586.6
7.5°	1360.7	1370.3	1377.0	1404.9	1440.4	1495.6	1558.6	1610.4	1615.0	1626.3	1584.9
10°	1264.2	1265.9	1275.1	1301.8	1339.0	1395.3	1470.5	1561.1	1574.9	1616.3	1580.8
12.5°	1184.8	1186.1	1198.2	1227.0	1266.7	1323.5	1402.4	1507.3	1528.6	1603.7	1579.9
15°	1128.5	1133.1	1143.9	1174.0	1216.2	1272.6	1353.6	1467.6	1493.1	1599.1	1587.5
17.5°	1109.7	1114.7	1118.0	1139.7	1178.2	1233.3	1316.4	1441.7	1470.5	1601.7	1602.1
20°	1129.3	1133.1	1125.5	1131.0	1154.8	1204.1	1285.1	1419.6	1453.8	1604.6	1620.9
22.5°	1202.4	1204.1	1183.6	1159.8	1155.6	1182.8	1260.4	1402.0	1438.8	1612.5	1643.0
25°	1327.7	1324.8	1291.3	1240.0	1191.5	1179.0	1245.8	1391.2	1431.3	1620.9	1666.0
27.5°	1478.9	1483.0	1437.1	1362.3	1270.0	1204.1	1243.7	1386.6	1427.9	1626.7	1686.0
30°	1662.6	1668.5	1615.9	1521.9	1389.5	1265.9	1262.9	1385.7	1425.8	1623.0	1687.7
32.5°	1850.1	1857.2	1815.9	1719.0	1549.0	1369.4	1306.4	1394.9	1430.0	1610.0	1678.1
35°	2046.4	2056.5	2028.9	1945.8	1765.4	1519.0	1382.8	1422.9	1449.6	1608.8	1668.5
37.5°	2317.5	2326.7	2274.9	2186.8	2027.2	1719.4	1505.6	1475.5	1496.0	1628.8	1671.0
40°	2722.2	2720.9	2587.3	2452.4	2315.0	1974.2	1678.1	1570.7	1581.2	1689.4	1701.9
42.5°	3163.2	3161.1	2963.6	2758.5	2634.5	2287.8	1904.9	1735.3	1728.2	1800.9	1782.1
45°	3503.2	3502.7	3341.5	3110.6	3019.1	2647.8	2198.0	1964.2	1953.3	1982.1	1929.9
47.5°	3648.1	3650.6	3569.6	3407.1	3445.5	3134.8	2567.7	2295.8	2279.5	2267.8	2188.4
50°	3535.3	3540.3	3547.0	3515.3	3758.3	3789.3	3063.4	2763.1	2755.2	2703.0	2578.9
52.5°	3167.0	3192.4	3271.0	3371.6	3866.9	4417.4	3840.6	3343.6	3301.0	3245.5	3108.9
55°	2546.4	2574.3	2723.4	2967.8	3705.3	4830.0	4929.8	4092.0	4021.0	3855.2	3658.1
57.5°	1685.2	1728.6	1945.0	2255.7	3235.9	4896.4	6016.5	5130.7	4883.5	4429.5	4207.3
60°	928.4	970.2	1204.9	1486.4	2337.1	4568.1	6747.4	6483.0	6046.2	5071.4	4874.3
62.5°	571.7	594.3	767.6	1029.5	1401.6	3605.5	6898.6	8182.4	7676.6	5897.9	5679.9
65°	455.2	464.8	549.6	841.5	1004.8	2144.6	6410.4	9477.9	9309.2	6898.6	6401.2
67°	441.9	445.6	485.7	722.5	947.2	1314.7	5370.4	9688.8	9860.1	7504.2	6423.7
67.5°	444.8	449.0	487.0	689.5	945.5	1208.2	5012.1	9605.7	9822.1	7552.2	6323.9
70°	428.9	441.9	557.5	689.1	899.2	1004.0	3001.6	8322.7	8547.8	7017.2	5365.8
72.5°	152.0	152.9	241.0	557.5	977.7	1014.9	1507.3	6101.3	6267.9	5367.9	3868.6
75°	90.2	76.8	80.2	158.7	934.3	985.6	869.5	3898.7	3960.9	3075.9	1959.2
77.5°	62.2	54.3	56.0	70.2	355.8	971.8	690.8	2033.1	1966.7	1078.8	417.2
80°	35.5	31.3	33.4	61.4	129.5	906.7	651.5	824.4	702.9	182.9	115.3
82.5°	18.8	15.9	19.2	50.5	90.2	565.1	652.8	398.4	315.7	61.8	78.5
85°	6.7	5.4	9.2	34.7	60.1	173.3	605.2	334.9	263.1	30.1	59.7
87.5°	1.3	1.3	3.8	14.2	24.2	53.0	357.9	198.8	133.2	18.0	40.9
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°	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1	1579.1
2.5°	1574.1	1556.1	1531.9	1502.3	1467.2	1436.3	1413.3	1389.5	1384.5	1376.1	1374.9
5°	1563.6	1532.7	1472.6	1403.7	1330.2	1263.8	1209.9	1161.9	1140.6	1122.2	1120.1
7.5°	1548.2	1501.8	1399.5	1288.4	1173.6	1069.2	980.6	918.0	860.3	832.8	828.6
10°	1530.2	1463.8	1317.2	1163.1	1004.4	857.0	725.4	615.2	548.4	508.7	503.7
12.5°	1513.5	1426.7	1233.3	1033.2	822.3	625.2	456.1	350.8	280.7	252.3	248.9
15°	1505.6	1396.6	1154.8	900.4	631.9	398.0	249.3	192.9	170.0	163.3	162.9
17.5°	1504.8	1371.1	1077.9	763.0	442.7	231.4	162.5	148.3	143.7	142.0	142.0
20°	1504.3	1346.9	1001.1	620.6	281.1	154.1	135.3	132.0	128.6	126.5	126.5
22.5°	1508.9	1325.2	920.9	475.3	177.1	124.9	119.0	115.7	111.5	108.6	108.2
25°	1513.5	1308.5	839.0	338.3	128.2	108.6	102.7	98.1	92.3	88.5	88.1
27.5°	1514.4	1287.6	751.3	226.4	107.3	94.8	87.3	80.2	73.5	69.7	69.3
30°	1501.8	1252.5	654.0	152.9	94.8	82.3	72.3	64.7	58.5	55.5	55.5
32.5°	1477.2	1209.1	547.1	115.3	84.4	70.6	59.7	52.6	48.4	47.2	46.8
35°	1455.1	1162.3	437.3	97.7	75.6	59.7	48.9	44.3	41.8	41.3	40.9
37.5°	1442.1	1124.7	334.1	88.5	67.2	50.1	41.3	38.0	36.8	35.9	36.3
40°	1452.1	1093.4	246.8	81.0	58.9	41.8	35.1	33.4	32.2	31.7	31.7
42.5°	1496.0	1088.0	183.3	74.3	51.0	34.7	30.5	29.2	28.4	28.0	28.4
45°	1611.3	1121.4	142.4	68.1	43.0	29.2	25.9	25.5	25.1	25.1	25.1
47.5°	1784.6	1190.3	118.6	61.0	35.9	25.1	22.6	22.1	21.7	22.1	22.1
50°	2078.2	1316.4	106.1	53.9	29.7	21.3	19.2	19.2	19.2	19.2	19.6
52.5°	2524.6	1564.5	97.7	46.8	24.2	18.0	16.3	16.3	16.7	16.7	17.1
55°	3022.0	1893.6	90.2	39.7	20.5	15.0	13.4	13.8	14.2	14.6	14.6
57.5°	3561.6	2258.2	83.9	32.6	17.5	12.1	11.3	11.7	12.1	12.9	12.9
60°	4212.7	2652.9	74.8	25.5	14.6	9.6	8.8	9.6	10.9	11.7	12.1
62.5°	4927.7	3034.6	63.1	20.0	12.1	7.5	7.1	8.8	10.4	11.3	11.7
65°	5416.4	3154.4	48.4	16.3	9.2	5.4	5.8	7.9	10.0	11.3	11.3
67°	5218.4	2860.0	39.7	13.8	7.5	4.2	5.4	7.9	10.0	10.9	11.3
67.5°	5081.0	2744.7	38.0	13.4	7.1	4.2	5.4	7.9	10.0	11.3	11.3
70°	4134.2	2061.9	31.7	10.0	5.8	3.8	4.6	7.5	9.6	10.9	10.9
72.5°	2872.5	1271.3	28.4	7.1	5.0	3.3	4.2	7.1	9.2	10.4	10.9
75°	1365.7	460.2	24.2	5.4	4.6	2.9	3.8	7.1	9.2	10.4	10.4
77.5°	278.6	106.9	19.6	4.6	3.8	2.9	3.3	6.7	8.8	10.0	10.0
80°	91.5	41.3	14.6	4.2	3.8	2.9	3.3	6.3	8.8	9.6	10.0
82.5°	66.0	20.9	9.6	4.2	3.8	2.9	2.9	6.3	8.4	9.6	9.6
85°	50.5	14.6	6.3	4.2	3.8	2.9	2.9	5.8	7.9	9.2	9.2
87.5°	33.4	5.8	5.0	4.2	3.8	2.9	2.9	5.8	7.5	8.8	9.2
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)