

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: P299875

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299875  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-SL3-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

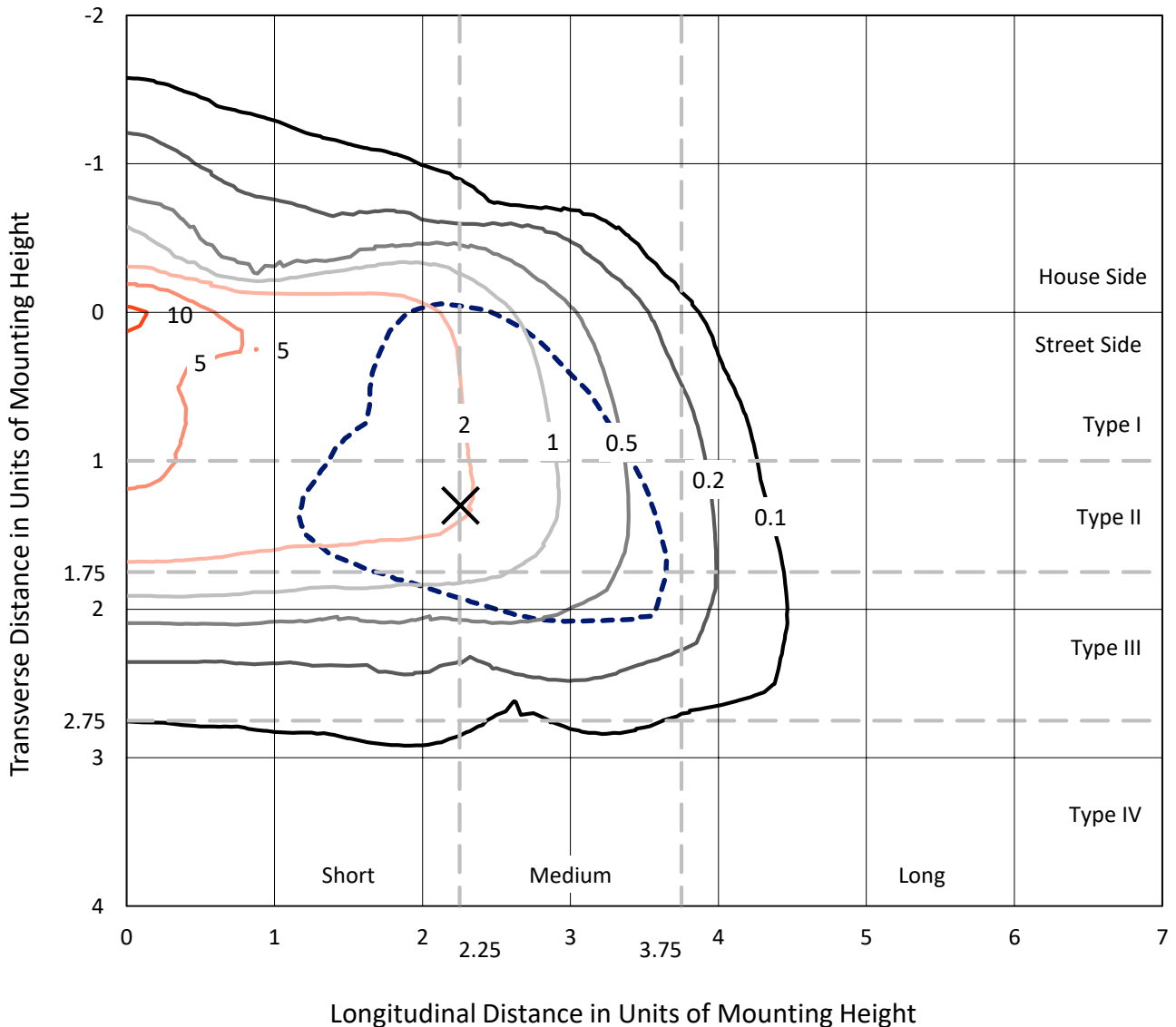
Lumens per Lamp: N/A  
Luminaire Lumens: 4359.8 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (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

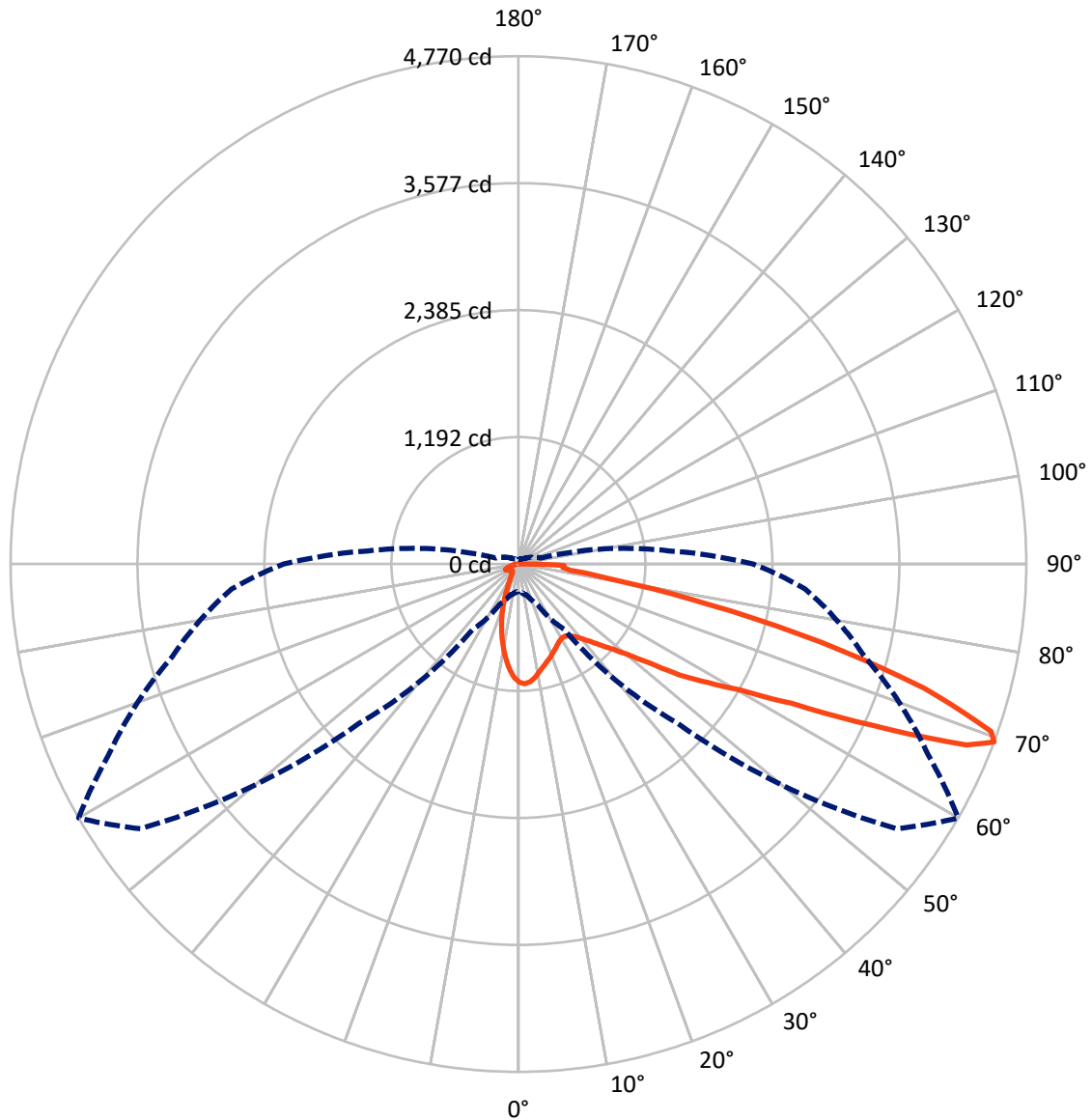
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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
<b>House Side</b>	Lumens	620.3	0.0	620.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3739.6	0.0	3739.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	4359.8	0.0	4359.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	2.2
10°-20°	200.1	4.6
20°-30°	255.0	5.8
30°-40°	350.6	8.0
40°-50°	568.8	13.0
50°-60°	912.3	20.9
60°-70°	1214.2	27.8
70°-80°	655.5	15.0
80°-90°	109.4	2.5
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°	4359.8	100.0
0°-180°	4359.8	100.0

**Coefficient of Utilization**



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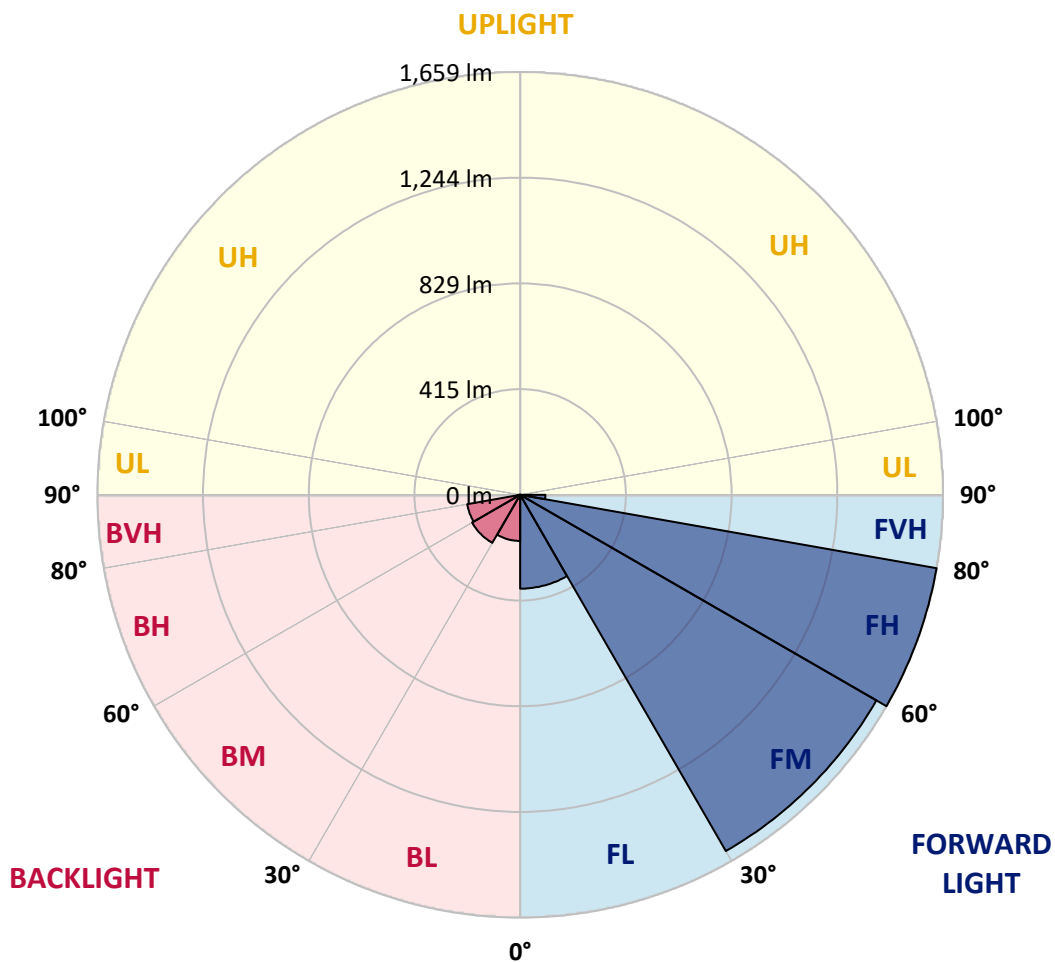
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.1	8.4			
FM (30°-60°)	1613.8	37.0			
FH (60°-80°)	1658.8	38.0			G1/1800
FVH (80°-90°)	98.8	2.3			G1/100
BL (0°-30°)	180.9	4.2	B1/500		
BM (30°-60°)	217.9	5.0	B0/220		
BH (60°-80°)	210.9	4.8	B1/500		G1/500
BVH (80°-90°)	10.5	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-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0
2.5°	1133.7	1136.2	1135.2	1134.5	1136.4	1133.5	1127.4	1125.5	1122.5	1115.6	1103.8
5°	1091.2	1098.7	1098.3	1104.0	1113.5	1116.0	1113.3	1113.7	1108.2	1099.6	1080.0
7.5°	1017.7	1020.8	1022.5	1034.9	1052.2	1066.1	1077.9	1081.7	1079.2	1071.8	1046.5
10°	941.8	944.4	948.4	962.9	984.8	1004.0	1026.3	1039.1	1044.6	1043.3	1015.1
12.5°	876.8	879.3	884.5	901.0	927.1	950.7	983.1	999.1	1012.2	1020.0	989.6
15°	818.4	823.9	828.9	847.9	877.2	908.1	944.8	965.0	985.2	1002.7	967.1
17.5°	772.9	778.4	781.4	798.6	829.8	867.7	910.7	934.5	959.7	988.4	944.8
20°	746.6	749.1	747.9	757.6	785.6	825.8	876.8	904.3	934.9	974.9	922.5
22.5°	739.2	739.4	734.8	733.8	751.9	785.8	840.5	874.0	911.5	966.1	903.3
25°	757.1	756.5	743.9	733.5	735.4	755.2	805.6	844.5	891.9	964.2	888.6
27.5°	796.9	798.8	780.1	760.7	741.5	740.9	779.0	820.1	875.9	972.8	882.2
30°	852.7	855.9	835.9	811.3	775.2	745.5	768.7	805.6	866.0	990.7	881.2
32.5°	913.8	917.2	902.0	876.1	828.9	774.2	775.9	806.8	865.6	1015.8	888.3
35°	978.9	982.7	974.9	953.0	900.6	827.1	803.3	827.3	879.3	1054.1	907.5
37.5°	1051.6	1057.5	1059.6	1038.7	982.7	896.8	848.1	866.0	910.2	1107.4	942.7
40°	1156.2	1164.4	1163.8	1133.9	1076.8	990.9	917.4	922.0	958.5	1178.6	998.9
42.5°	1356.7	1358.4	1306.0	1240.9	1180.5	1089.9	999.1	995.3	1025.0	1268.7	1081.7
45°	1611.8	1604.8	1488.1	1362.4	1288.7	1203.6	1105.5	1086.9	1109.5	1378.6	1185.3
47.5°	1823.4	1807.4	1660.0	1486.5	1403.3	1327.2	1230.4	1197.9	1210.4	1503.3	1319.2
50°	1896.9	1884.9	1762.8	1589.7	1511.7	1478.0	1384.1	1338.2	1341.6	1652.0	1476.1
52.5°	1881.1	1879.5	1798.0	1657.7	1613.2	1636.4	1601.9	1539.7	1506.9	1817.1	1645.5
55°	1843.9	1847.4	1818.0	1736.9	1729.3	1789.3	1886.4	1840.5	1738.4	1983.7	1820.5
57.5°	1714.3	1723.6	1788.5	1836.5	1916.1	2005.4	2115.5	2102.5	1987.5	2163.8	2028.6
60°	1381.2	1402.6	1576.6	1817.1	2108.4	2387.7	2436.9	2406.6	2244.4	2387.2	2303.4
62.5°	967.7	990.1	1196.9	1573.2	2076.8	2819.4	3011.5	2880.7	2613.4	2716.4	2659.1
65°	518.1	528.8	686.8	1091.6	1753.3	2908.5	3851.2	3652.1	3197.6	3122.2	2963.5
67.5°	285.8	291.7	352.1	551.2	1123.0	2561.2	4386.1	4536.5	3927.8	3392.5	2908.1
69°	258.4	263.9	303.5	417.4	751.4	2117.7	4333.9	4769.6	4247.9	3365.7	2703.4
70°	252.7	257.8	293.4	384.8	608.2	1745.5	4158.9	4710.0	4324.2	3269.9	2524.8
72.5°	227.5	232.9	267.5	345.6	519.8	870.2	3294.3	3982.4	3925.9	2835.2	1915.0
75°	212.1	217.1	275.7	338.4	497.7	550.7	2171.8	2935.0	2885.9	1983.3	1032.6
77.5°	90.8	90.4	127.8	286.4	505.0	533.3	1167.0	1833.5	1672.9	847.7	296.5
80°	60.7	59.6	60.7	84.2	463.1	536.2	611.4	930.7	703.0	216.1	146.2
82.5°	52.2	51.4	53.3	51.4	162.8	612.0	519.8	494.9	334.2	122.8	72.4
85°	35.2	33.7	45.9	46.1	76.9	543.8	585.5	418.1	270.4	72.9	35.8
87.5°	16.8	16.4	26.7	32.6	45.1	220.9	656.9	428.4	272.7	37.3	17.1
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°	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0
2.5°	1100.2	1091.6	1083.2	1073.0	1062.5	1050.7	1044.8	1038.9	1037.5	1035.8	1029.9
5°	1069.9	1057.7	1036.6	1013.4	989.0	965.2	947.1	935.7	927.1	922.7	914.9
7.5°	1030.7	1012.8	976.0	935.9	894.9	857.4	824.9	804.5	785.1	776.1	765.8
10°	993.4	966.7	909.4	850.4	791.5	734.8	681.5	643.8	610.3	591.6	578.3
12.5°	961.4	924.8	845.4	765.6	684.7	604.0	524.2	461.4	409.0	381.4	367.3
15°	930.3	886.0	784.5	683.2	579.4	469.7	364.8	293.6	250.2	232.9	227.0
17.5°	902.0	845.4	723.4	600.2	470.7	338.0	245.1	206.0	189.3	183.6	181.8
20°	871.5	804.3	660.0	513.5	357.4	236.3	191.4	174.2	167.4	165.7	164.9
22.5°	842.0	763.9	599.4	420.6	256.7	182.4	164.5	157.3	156.3	157.7	157.7
25°	816.9	727.6	533.9	323.5	188.5	153.5	147.2	145.5	149.5	155.0	156.1
27.5°	798.2	698.0	464.2	238.8	150.2	133.5	133.3	136.1	146.0	156.5	158.6
30°	785.4	669.7	389.6	172.3	125.9	117.5	120.9	126.8	141.3	156.3	160.3
32.5°	778.8	648.9	311.9	133.3	107.8	103.2	108.9	116.0	130.4	144.3	149.5
35°	783.9	633.5	238.6	111.2	95.2	91.6	97.5	104.5	112.9	118.8	122.8
37.5°	802.8	627.4	180.1	99.6	86.6	83.2	87.8	91.8	95.2	96.9	98.8
40°	843.7	633.9	144.3	93.7	81.7	77.5	79.4	80.9	83.0	84.7	85.5
42.5°	903.9	653.5	129.3	91.4	79.2	73.1	72.7	73.3	76.0	79.2	79.8
45°	988.2	688.1	128.3	92.9	77.9	69.5	67.6	68.4	72.7	77.5	78.3
47.5°	1095.8	740.7	136.7	97.3	79.0	67.6	64.4	65.5	70.8	77.3	78.3
50°	1226.2	814.2	150.8	103.8	83.6	68.0	63.4	64.0	69.5	76.7	77.7
52.5°	1380.1	918.5	166.2	110.1	88.5	70.8	64.2	62.8	67.8	74.1	75.4
55°	1551.3	1052.2	182.0	115.8	91.0	74.1	65.9	61.1	64.7	69.9	71.0
57.5°	1761.5	1239.2	209.3	121.3	92.7	76.5	67.6	59.4	60.7	64.4	65.3
60°	2046.0	1503.7	257.6	130.4	96.5	77.3	67.4	57.9	56.7	58.8	59.2
62.5°	2387.0	1791.0	297.8	141.7	102.8	77.9	66.1	56.9	53.3	53.3	53.7
65°	2589.4	1867.9	275.5	151.2	108.0	77.3	64.7	55.8	50.8	48.4	48.7
67.5°	2417.8	1642.7	236.1	153.1	107.8	74.3	62.3	53.9	48.2	44.6	44.4
69°	2202.7	1417.4	218.4	148.1	102.8	70.6	59.4	51.8	46.3	42.5	42.3
70°	2029.4	1279.9	206.8	142.6	97.3	67.8	57.1	49.9	44.9	41.3	40.9
72.5°	1475.5	838.6	176.7	122.6	80.2	56.9	49.3	43.8	40.0	37.9	37.5
75°	737.3	399.9	143.4	99.4	61.5	45.5	40.4	36.6	34.8	34.3	34.1
77.5°	242.2	183.2	102.6	74.1	45.7	35.6	32.6	29.9	29.5	30.7	30.3
80°	133.1	106.6	65.1	49.1	31.2	26.1	25.7	24.2	24.9	27.0	26.5
82.5°	67.8	55.4	40.2	29.5	21.1	18.7	20.4	19.6	20.4	22.3	22.1
85°	33.5	30.3	25.5	17.9	13.9	12.0	14.5	15.2	15.6	17.1	17.1
87.5°	19.4	17.9	13.5	8.4	7.0	6.3	8.4	8.2	9.7	10.5	10.3
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)