

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: P458623

Luminaire Tested: **GALN-SA1D-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5709 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

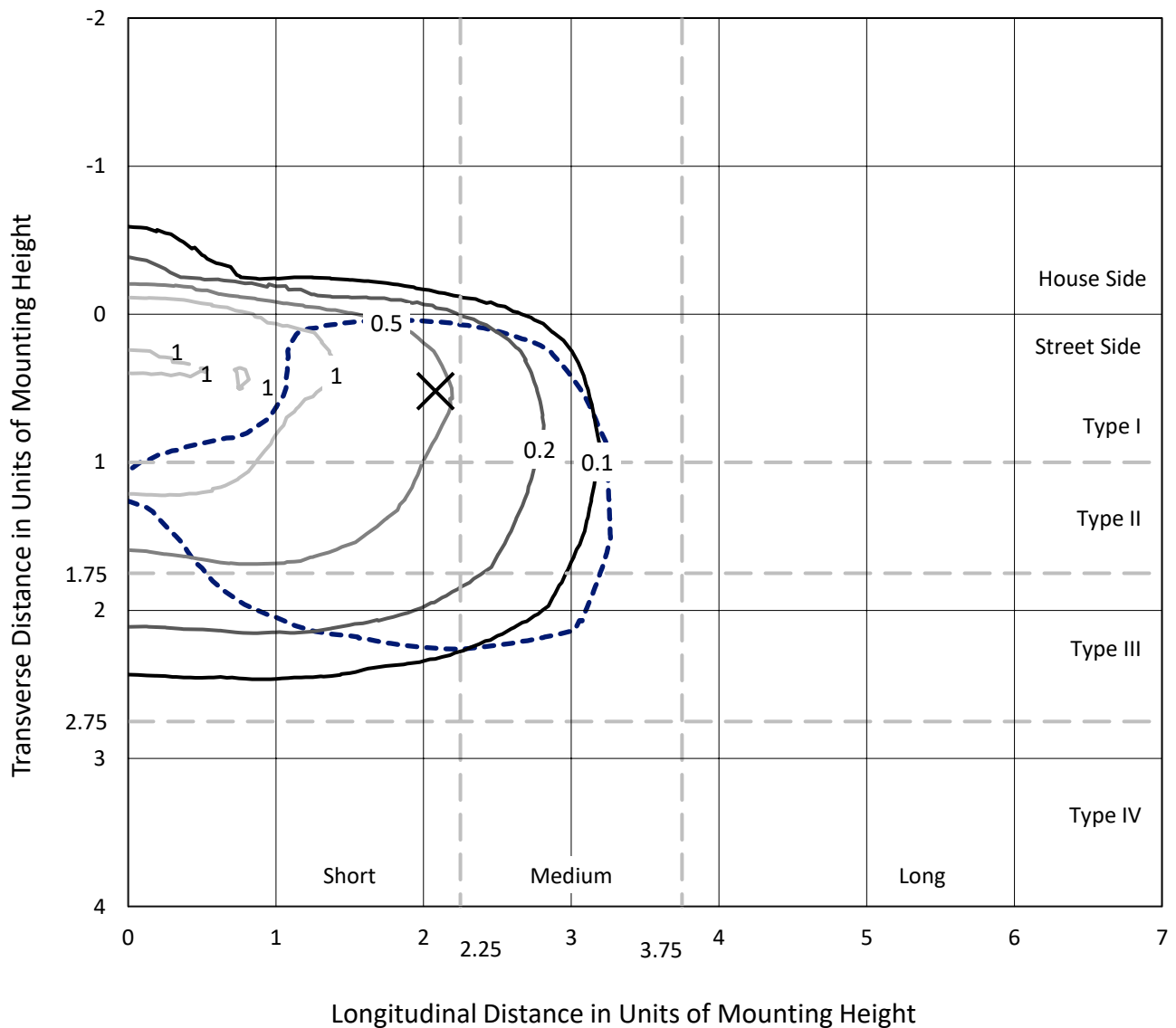
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

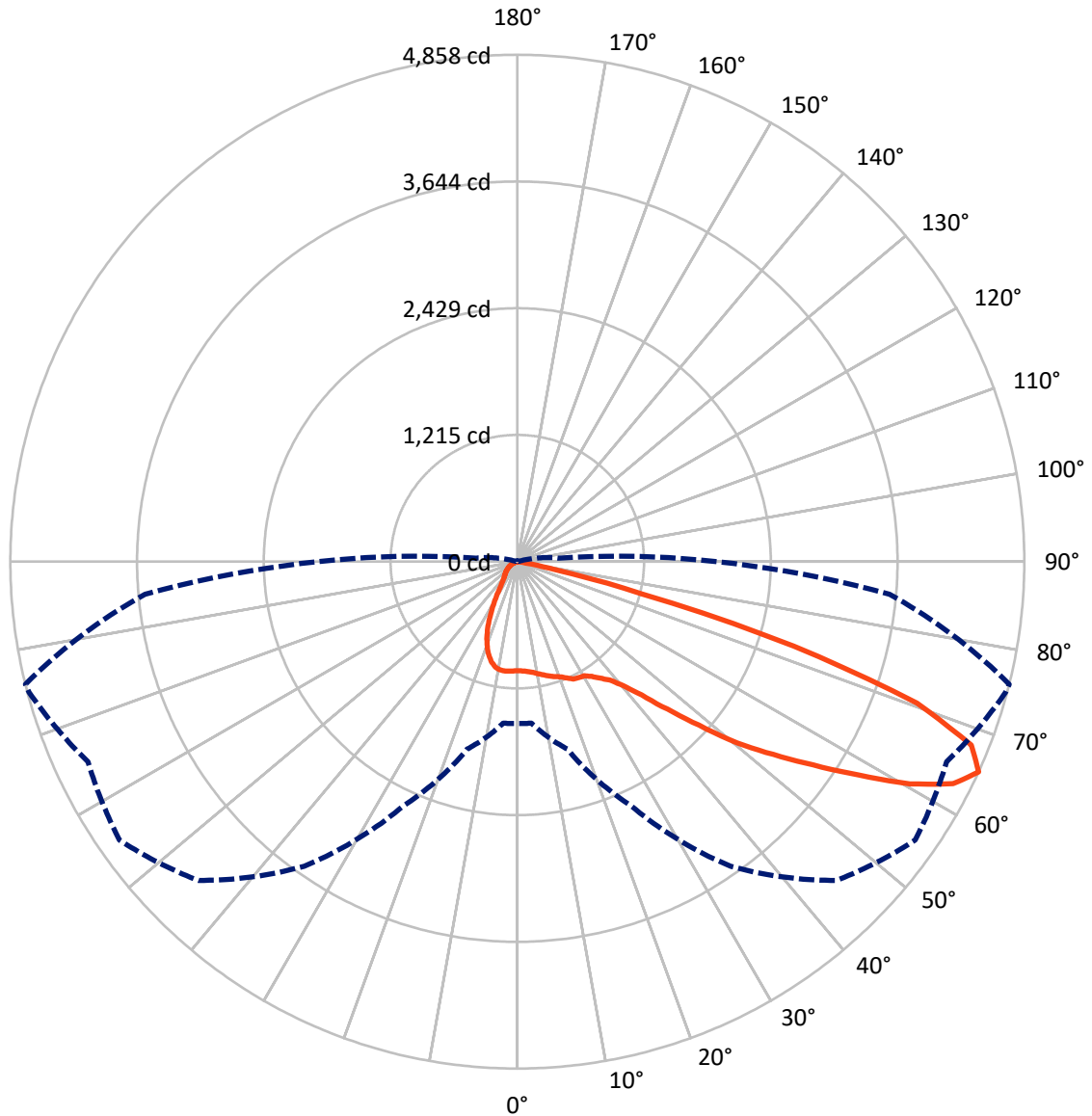
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	412.3	0.0	412.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	5296.7	0.0	5296.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	5709.0	0.0	5709.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	1.5
10°-20°	191.6	3.4
20°-30°	308.7	5.4
30°-40°	536.7	9.4
40°-50°	886.9	15.5
50°-60°	1370.0	24.0
60°-70°	1673.0	29.3
70°-80°	634.9	11.1
80°-90°	21.2	0.4
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°	5709.0	100.0
0°-180°	5709.0	100.0

**Coefficient of Utilization**



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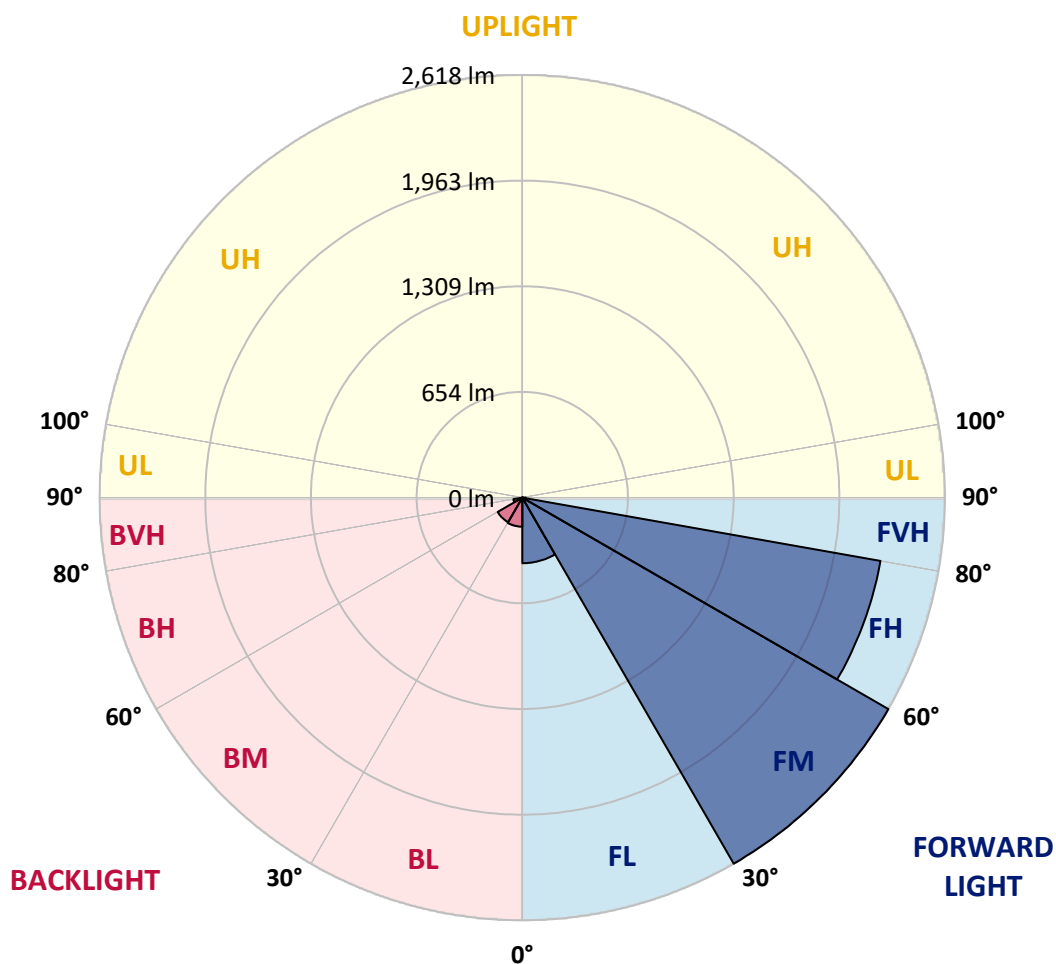
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.1	7.1			
FM (30°-60°)	2617.7	45.9			
FH (60°-80°)	2252.0	39.4			G2/5000
FVH (80°-90°)	20.9	0.4			G1/100
BL (0°-30°)	180.1	3.2	B1/500		
BM (30°-60°)	175.9	3.1	B0/220		
BH (60°-80°)	55.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	998.0	998.4	1000.8	1006.9	1016.1	1023.8	1030.3	1040.7	1048.0	1048.8	1051.2
5°	929.1	924.2	929.1	944.8	958.9	980.3	1006.5	1032.7	1056.0	1057.7	1068.9
7.5°	851.7	855.7	863.4	879.5	906.1	938.8	976.6	1023.4	1067.7	1071.8	1093.9
10°	773.1	782.0	794.5	819.0	856.1	898.4	950.0	1016.9	1086.3	1091.9	1130.2
12.5°	700.5	704.6	719.9	752.9	798.9	858.5	929.9	1013.3	1106.8	1113.7	1168.9
15°	644.9	650.2	663.5	693.3	744.5	821.1	913.4	1012.1	1127.0	1136.7	1207.6
17.5°	634.4	637.7	643.3	663.5	708.2	791.2	898.4	1011.7	1146.3	1158.0	1243.5
20°	677.6	674.7	669.1	667.1	691.7	768.3	887.6	1014.9	1164.9	1178.2	1281.4
22.5°	785.6	789.2	756.2	717.1	709.0	764.6	886.0	1030.3	1194.3	1210.0	1323.7
25°	1014.9	987.1	935.5	842.0	771.5	786.8	904.1	1066.5	1228.6	1245.9	1362.0
27.5°	1268.5	1260.0	1179.8	1025.8	894.4	833.6	936.3	1094.3	1239.8	1257.6	1383.7
30°	1517.6	1527.6	1435.7	1265.6	1073.0	920.2	966.6	1104.8	1249.9	1268.5	1411.6
32.5°	1748.5	1760.6	1680.0	1511.5	1283.4	1070.2	1018.6	1145.5	1292.2	1311.2	1457.9
35°	1930.3	1931.9	1871.1	1736.8	1513.1	1252.3	1131.0	1216.9	1349.5	1371.7	1507.1
37.5°	2097.2	2094.8	2023.4	1907.7	1704.6	1433.3	1272.5	1299.1	1414.8	1437.8	1578.0
40°	2220.9	2222.5	2199.6	2090.7	1883.2	1600.6	1384.6	1376.1	1524.4	1560.3	1681.2
42.5°	2303.6	2318.5	2329.8	2274.5	2107.7	1806.6	1556.7	1540.9	1714.7	1744.5	1827.1
45°	2370.5	2397.1	2453.5	2450.7	2323.3	2059.3	1792.9	1760.6	1984.3	2016.2	2012.9
47.5°	2419.2	2446.2	2539.8	2596.2	2526.0	2304.4	2089.9	2062.1	2306.4	2341.0	2218.1
50°	2444.2	2476.5	2595.8	2705.0	2684.5	2540.6	2428.5	2430.1	2695.3	2728.8	2455.9
52.5°	2385.8	2427.7	2625.6	2822.3	2862.2	2766.7	2745.7	2798.9	3041.6	3070.2	2670.8
55°	2199.2	2252.0	2584.9	2922.3	3068.2	3033.5	3106.1	3187.1	3420.1	3438.6	2891.2
57.5°	2081.1	2137.1	2464.8	3007.3	3315.7	3368.9	3483.7	3543.0	3810.6	3857.8	3144.4
60°	1981.5	2025.4	2366.0	3025.5	3567.2	3779.2	3890.8	3952.1	4292.7	4323.3	3422.9
62.5°	1815.8	1866.2	2199.2	2898.9	3693.7	4107.7	4339.1	4311.7	4665.6	4686.9	3593.8
65°	1549.4	1553.8	1860.6	2580.9	3563.2	4320.9	4653.9	4539.0	4843.7	4858.2	3580.5
67.5°	1156.4	1199.1	1431.3	2028.7	3009.7	4138.7	4755.8	4545.0	4731.3	4690.9	3296.3
70°	744.9	777.5	970.2	1406.7	2170.1	3453.9	4417.7	4233.5	4152.4	4063.0	2698.2
72.5°	343.8	385.7	576.4	803.7	1287.0	2460.3	3586.1	3439.4	2988.8	2767.9	1715.1
75°	149.9	160.4	284.6	424.0	603.4	1301.1	2364.4	2135.1	1349.9	1233.0	686.4
77.5°	91.5	98.3	149.1	227.3	237.0	495.8	1273.7	931.5	417.2	368.0	186.2
80°	62.1	69.7	108.4	118.9	81.0	138.3	478.0	248.7	84.2	80.6	39.9
82.5°	30.2	38.3	80.2	66.5	35.1	44.3	139.1	53.2	24.6	23.0	14.1
85°	4.4	7.7	45.1	43.5	15.7	10.5	24.6	13.3	8.5	8.1	6.4
87.5°	0.0	0.0	15.3	6.9	1.6	1.6	2.8	2.8	3.2	2.8	3.2
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°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1052.4	1054.4	1046.8	1035.9	1024.2	1012.5	996.0	981.1	972.2	977.4	964.6
5°	1071.4	1069.8	1049.6	1016.5	972.6	919.8	867.4	822.7	808.2	786.4	784.0
7.5°	1097.6	1093.1	1050.4	974.6	875.5	776.3	679.6	615.5	578.8	547.8	548.6
10°	1134.2	1121.3	1041.1	900.9	737.6	588.1	464.7	380.1	343.4	331.7	322.5
12.5°	1172.1	1147.1	1015.3	801.3	574.4	401.9	282.6	231.0	208.4	201.1	200.3
15°	1206.0	1166.5	970.2	681.6	417.6	256.8	192.7	175.7	172.9	173.3	172.9
17.5°	1239.4	1181.8	907.7	554.6	283.8	184.2	165.7	161.6	162.8	164.5	164.1
20°	1267.3	1185.0	827.9	423.2	200.7	161.6	155.6	154.8	156.0	157.2	157.2
22.5°	1297.5	1187.4	733.2	293.0	164.1	150.3	147.1	147.1	148.7	150.3	150.7
25°	1320.1	1174.1	619.9	210.4	144.7	139.5	137.9	138.3	139.9	140.7	140.3
27.5°	1323.7	1136.7	499.8	161.2	131.4	126.2	124.5	126.2	124.1	125.4	124.5
30°	1326.9	1089.1	378.1	135.8	119.3	111.2	108.8	106.4	104.8	102.8	102.4
32.5°	1337.0	1033.1	276.1	122.1	108.0	99.2	93.5	86.7	81.4	79.8	79.4
35°	1341.4	965.8	202.7	111.2	97.9	88.3	78.2	68.5	60.9	58.0	60.1
37.5°	1358.4	900.5	157.2	103.2	89.1	77.0	64.1	52.0	44.7	43.1	43.9
40°	1393.0	829.5	131.8	96.3	81.4	66.5	50.8	39.1	34.3	32.6	32.2
42.5°	1448.6	759.0	117.3	89.9	73.8	56.0	39.9	30.6	26.6	25.4	25.4
45°	1516.4	691.3	107.2	83.0	65.7	45.1	31.4	24.6	22.2	21.4	21.4
47.5°	1605.4	632.0	98.8	76.2	56.8	35.9	25.4	21.4	19.8	20.2	20.6
50°	1695.7	588.1	89.5	68.5	46.8	29.4	21.8	18.9	18.5	18.9	18.9
52.5°	1763.8	562.3	77.0	58.0	36.7	24.6	19.3	17.7	17.3	16.5	16.5
55°	1855.7	556.6	61.3	47.2	29.0	20.6	17.3	16.1	14.9	14.1	13.7
57.5°	1973.8	563.1	47.2	36.7	22.6	16.9	15.3	13.3	11.7	10.1	10.1
60°	2047.2	548.6	36.7	28.2	16.5	13.7	11.7	9.7	7.7	6.4	6.0
62.5°	2023.8	487.3	29.0	21.0	11.7	10.1	7.7	6.4	4.4	3.2	2.8
65°	1903.3	393.4	23.4	14.5	8.5	6.0	4.0	4.0	2.0	0.4	0.0
67.5°	1665.9	291.4	18.5	9.7	4.8	2.8	2.0	1.2	0.0	0.0	0.0
70°	1355.9	210.4	14.5	6.0	2.8	2.0	0.8	0.4	0.0	0.0	0.0
72.5°	861.0	120.5	11.3	3.6	2.0	0.8	0.0	0.0	0.0	0.0	0.0
75°	332.9	47.2	7.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	94.3	22.2	4.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.6	9.7	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.7	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)