

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: P451429

Luminaire Tested: **GALN-SA2B-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8401 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

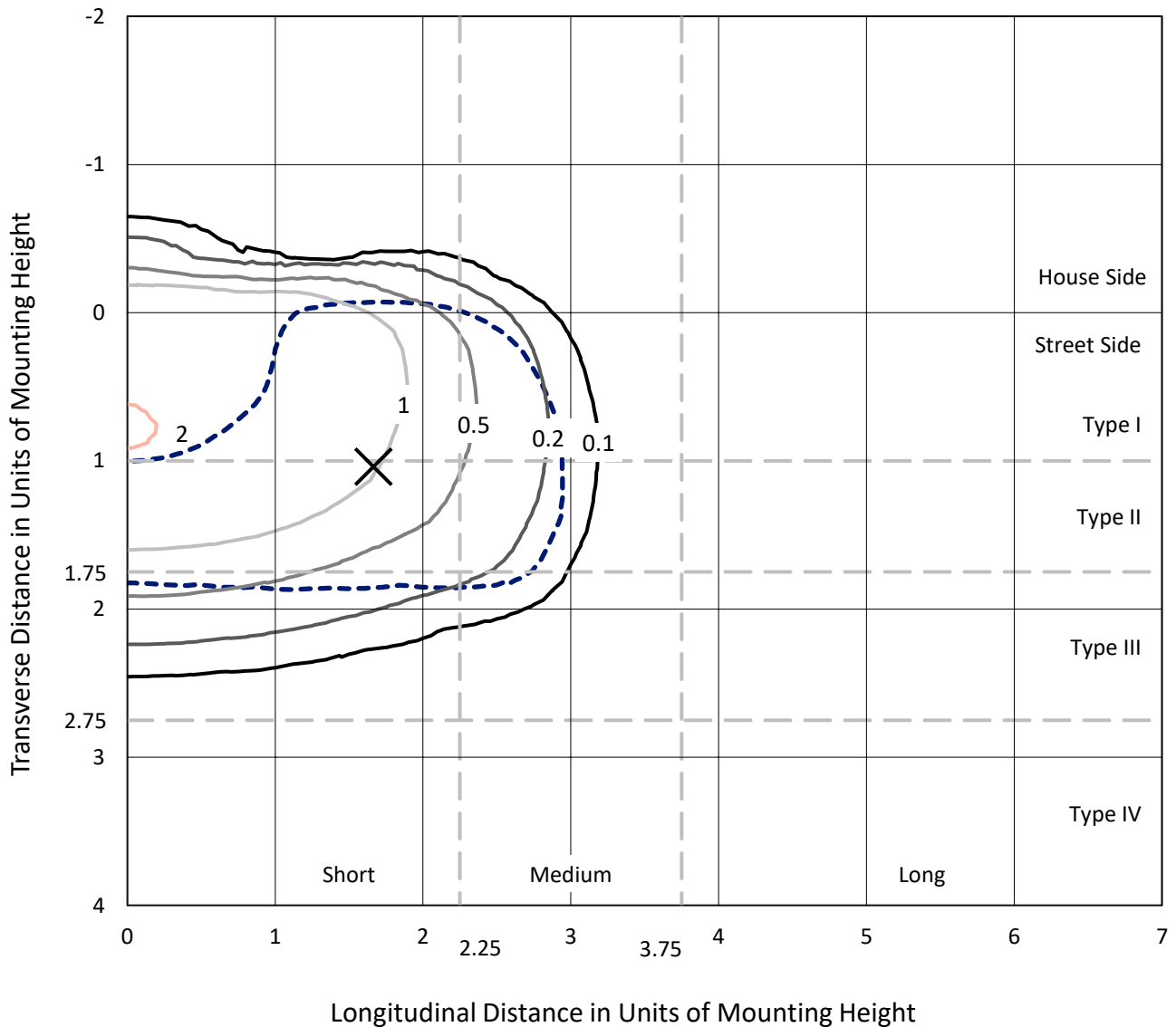
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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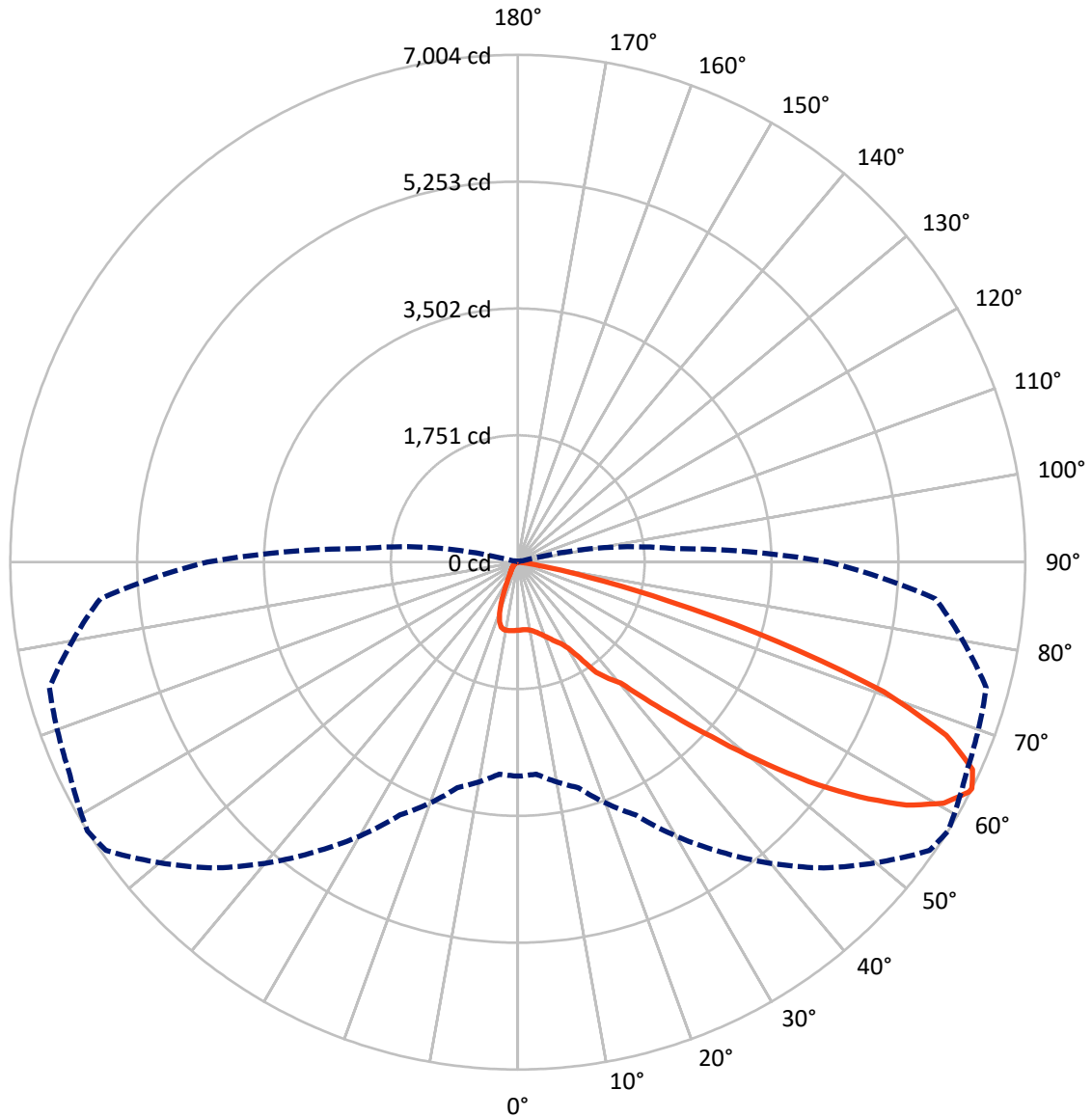
### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	869.9	0.0	869.9
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	7531.1	0.0	7531.1
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	8401.0	0.0	8401.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	1.0
10°-20°	239.8	2.9
20°-30°	416.2	5.0
30°-40°	764.8	9.1
40°-50°	1439.7	17.1
50°-60°	2462.5	29.3
60°-70°	2357.9	28.1
70°-80°	601.3	7.2
80°-90°	30.7	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°	8401.0	100.0
0°-180°	8401.0	100.0

**Coefficient of Utilization**



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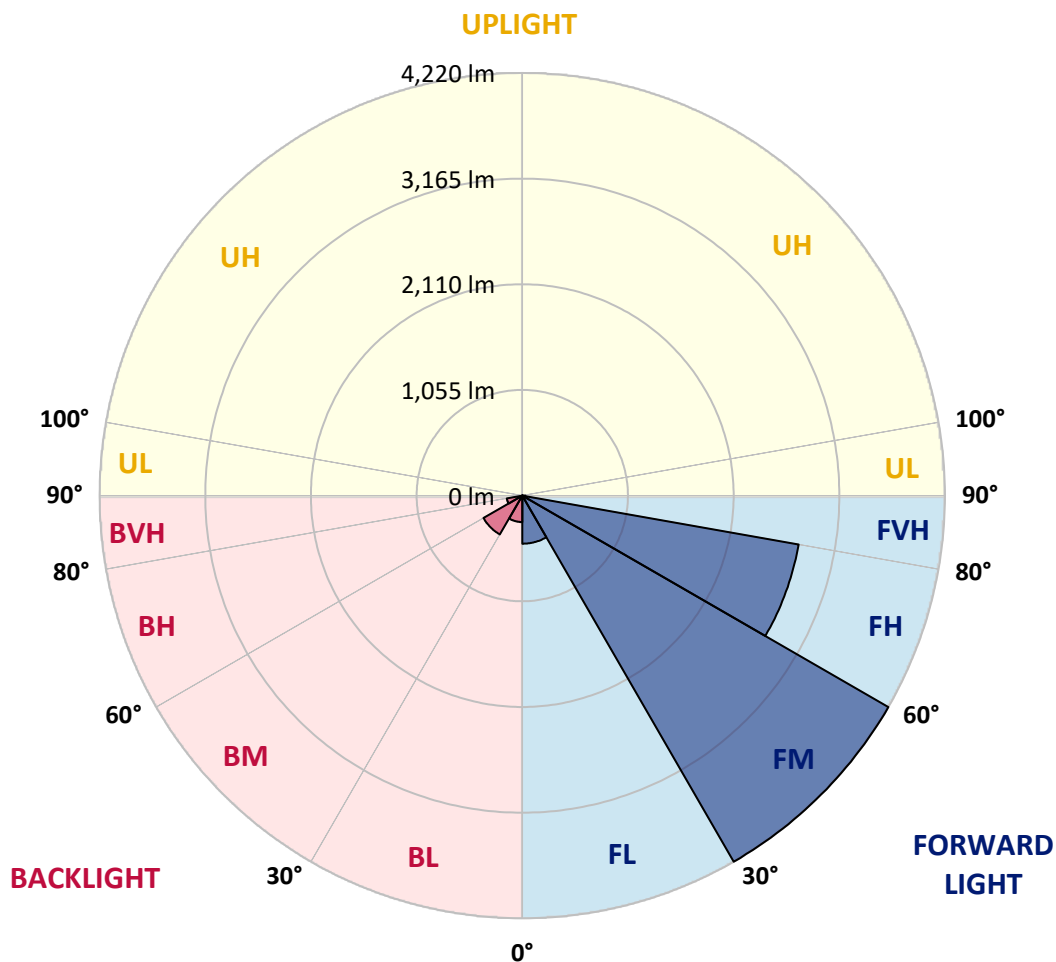
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.2	5.7			
FM (30°-60°)	4219.7	50.2			
FH (60°-80°)	2801.7	33.3			G2/5000
FVH (80°-90°)	29.6	0.4			G1/100
BL (0°-30°)	263.8	3.1	B1/500		
BM (30°-60°)	447.4	5.3	B1/1000		
BH (60°-80°)	157.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.2	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°	58°	65°	75°	85°
0°	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5
2.5°	917.1	920.3	923.4	924.7	929.1	933.6	936.7	936.1	941.2	943.7	943.7
5°	880.4	880.4	888.7	896.2	908.9	921.5	933.6	936.1	945.6	954.4	957.6
7.5°	849.4	851.3	857.7	871.6	888.7	910.8	934.8	940.5	957.0	976.6	984.8
10°	834.9	836.2	844.4	858.9	880.4	910.8	944.3	955.1	980.4	1011.4	1022.7
12.5°	831.7	833.6	841.9	858.3	883.0	919.7	965.2	976.6	1013.3	1053.1	1070.2
15°	837.4	838.7	846.9	864.6	891.8	935.5	993.0	1008.8	1052.5	1098.6	1120.8
17.5°	857.7	856.4	862.1	876.6	907.0	955.1	1026.5	1045.5	1096.8	1160.0	1174.5
20°	943.7	935.5	930.4	917.8	929.8	982.9	1067.0	1094.9	1158.1	1222.6	1232.7
22.5°	1129.0	1110.7	1074.6	1025.3	987.3	1020.9	1115.7	1148.0	1229.6	1292.8	1292.8
25°	1364.9	1341.5	1305.5	1198.0	1105.0	1083.5	1170.8	1211.2	1307.4	1371.3	1350.4
27.5°	1660.3	1642.0	1571.8	1446.5	1304.2	1192.9	1234.6	1272.0	1376.3	1453.5	1409.8
30°	1900.7	1891.8	1834.2	1722.3	1565.4	1402.9	1353.5	1378.2	1468.0	1557.2	1512.3
32.5°	2103.7	2103.7	2044.9	1940.5	1793.8	1649.6	1555.3	1573.0	1659.0	1762.1	1678.6
35°	2327.0	2319.4	2271.9	2172.6	2008.2	1881.0	1842.5	1866.5	1944.3	2020.8	1815.3
37.5°	2561.6	2559.1	2509.8	2413.6	2279.5	2119.5	2029.1	2035.4	2075.2	2122.0	1975.3
40°	2816.5	2820.3	2755.8	2696.3	2569.8	2406.0	2232.7	2192.9	2230.2	2362.4	2270.7
42.5°	3117.6	3108.7	3080.9	2999.9	2898.1	2800.1	2592.0	2577.4	2610.3	2752.0	2652.7
45°	3467.4	3480.0	3431.9	3387.0	3318.7	3237.1	3063.2	3037.9	3073.9	3294.0	3153.0
47.5°	3817.8	3805.7	3836.7	3828.5	3865.2	3804.5	3650.8	3598.9	3685.6	3894.3	3686.8
50°	4084.7	4098.0	4162.5	4256.7	4414.2	4448.4	4301.0	4283.3	4321.9	4455.9	4164.4
52.5°	4258.0	4302.3	4403.5	4645.7	4929.7	5150.4	5038.5	5029.0	5013.2	5049.2	4621.0
55°	4371.2	4416.1	4548.3	4905.0	5393.9	5752.6	5758.3	5717.8	5613.4	5587.5	5048.0
57.5°	4301.6	4310.5	4499.0	4975.9	5651.4	6182.0	6368.0	6327.5	6134.6	6036.6	5424.9
60°	3866.5	3884.8	4147.3	4707.7	5539.4	6322.4	6772.2	6753.8	6542.6	6431.9	5718.4
62.5°	3095.4	3148.6	3418.7	4043.6	5018.9	6085.9	6936.0	6987.8	6823.4	6671.0	5810.8
63°	2953.8	2936.7	3221.9	3850.0	4881.0	5968.9	6938.5	7004.3	6836.0	6693.7	5785.5
65°	2186.5	2237.8	2423.1	3036.0	4061.9	5424.3	6782.3	6898.7	6789.2	6593.2	5505.3
67.5°	1227.7	1225.1	1430.1	1986.7	2843.1	4254.8	6132.7	6378.7	6356.0	5916.4	4563.5
70°	600.9	610.4	694.5	1029.7	1648.9	2935.4	5096.0	5361.7	5369.9	4647.0	3155.5
72.5°	272.0	276.4	336.5	501.6	847.5	1562.9	3511.6	3765.3	3718.5	2961.4	1742.5
75°	143.6	153.1	185.3	252.4	408.6	644.5	1910.1	2155.6	2057.5	1352.9	641.4
77.5°	106.3	109.4	125.9	160.7	218.8	251.1	824.1	980.4	918.4	489.6	212.5
80°	77.8	80.3	93.6	113.8	137.9	127.8	310.6	356.1	319.4	166.3	65.1
82.5°	47.4	48.1	68.3	84.8	86.7	71.5	102.5	110.1	115.1	93.6	35.4
85°	17.1	21.5	46.2	61.4	51.2	36.1	43.0	47.4	51.9	59.5	20.9
87.5°	1.9	2.5	22.1	29.7	14.5	13.3	15.8	17.7	19.0	22.1	10.1
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°	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5
2.5°	946.2	948.7	946.8	943.7	943.1	941.2	937.4	937.4	937.4	938.6	937.4
5°	960.1	962.0	957.6	951.3	944.3	935.5	926.0	920.3	919.7	918.4	915.2
7.5°	986.7	989.2	979.1	963.9	945.0	923.4	903.2	884.2	875.4	868.4	868.4
10°	1025.3	1027.8	1007.6	980.4	942.4	898.8	850.7	807.1	772.9	757.1	753.3
12.5°	1071.5	1072.7	1039.2	991.8	929.1	845.0	742.6	647.0	580.6	550.3	547.1
15°	1122.1	1113.2	1068.9	996.2	891.2	734.3	557.2	440.2	371.3	351.0	358.6
17.5°	1173.3	1156.8	1091.7	989.2	805.8	557.2	374.4	300.4	278.9	273.2	273.2
20°	1221.4	1198.6	1108.1	958.9	657.8	383.9	277.7	260.0	256.2	252.4	253.0
22.5°	1269.4	1234.6	1122.7	891.2	490.2	274.5	248.6	242.9	237.8	232.8	232.1
25°	1316.2	1268.2	1128.4	766.0	334.0	235.9	227.1	219.5	209.4	203.7	202.4
27.5°	1364.9	1308.6	1124.6	607.8	243.5	211.3	202.4	191.6	179.6	169.5	169.5
30°	1458.5	1385.8	1111.3	437.1	204.9	186.0	174.6	157.5	144.2	134.1	133.5
32.5°	1586.3	1486.4	1065.8	307.4	182.2	163.8	146.7	127.8	113.8	106.3	106.3
35°	1700.2	1587.6	980.4	226.4	163.8	142.3	121.4	103.1	92.3	87.3	85.4
37.5°	1873.5	1735.6	862.7	184.1	146.1	123.3	101.8	84.8	75.9	72.1	72.1
40°	2133.4	1916.5	718.5	161.3	129.0	105.0	84.8	71.5	64.5	60.1	60.1
42.5°	2456.0	2137.8	572.4	144.8	113.2	90.4	70.8	60.7	54.4	51.2	50.6
45°	2862.1	2371.2	440.9	129.7	100.6	77.2	60.1	51.2	44.9	43.0	43.6
47.5°	3285.8	2576.8	341.5	116.4	87.3	65.1	51.2	44.3	39.8	37.3	37.3
50°	3647.6	2718.5	259.3	101.2	77.2	55.0	44.9	39.8	36.1	34.8	34.2
52.5°	3949.9	2759.6	198.6	87.9	67.7	47.4	39.8	36.1	32.9	31.0	31.0
55°	4207.4	2723.5	155.6	74.0	56.9	41.1	35.4	32.3	28.5	26.6	25.9
57.5°	4357.9	2607.8	118.9	61.4	46.2	34.2	31.0	27.2	22.8	19.6	19.6
60°	4433.8	2439.5	91.1	50.6	35.4	27.2	25.3	20.2	15.8	13.3	12.6
62.5°	4342.7	2216.3	68.9	39.8	26.6	20.2	17.1	14.5	10.1	7.6	7.6
63°	4286.4	2151.8	66.4	37.9	24.7	19.0	15.8	13.3	8.9	7.0	6.3
65°	3907.6	1870.3	54.4	30.4	19.6	13.3	10.8	9.5	6.3	3.2	2.5
67.5°	3103.0	1430.7	43.0	22.8	13.9	9.5	6.3	5.7	1.9	0.0	0.0
70°	2098.0	924.1	33.5	16.4	9.5	5.7	3.2	2.5	0.6	0.0	0.0
72.5°	1094.2	473.7	25.9	12.0	5.7	3.8	1.9	0.6	0.0	0.0	0.0
75°	387.1	161.3	19.0	7.6	3.8	1.9	0.6	0.0	0.0	0.0	0.0
77.5°	117.0	60.1	12.0	5.7	2.5	1.3	0.0	0.0	0.0	0.0	0.0
80°	41.1	22.1	7.0	3.8	1.9	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	20.2	10.8	4.4	3.2	1.9	0.6	0.0	0.0	0.0	0.0	0.0
85°	11.4	7.0	3.8	3.2	1.9	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	5.1	3.8	3.2	2.5	1.3	0.6	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)