

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: P450932

Luminaire Tested: **GALN-SA1D-730-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5329 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

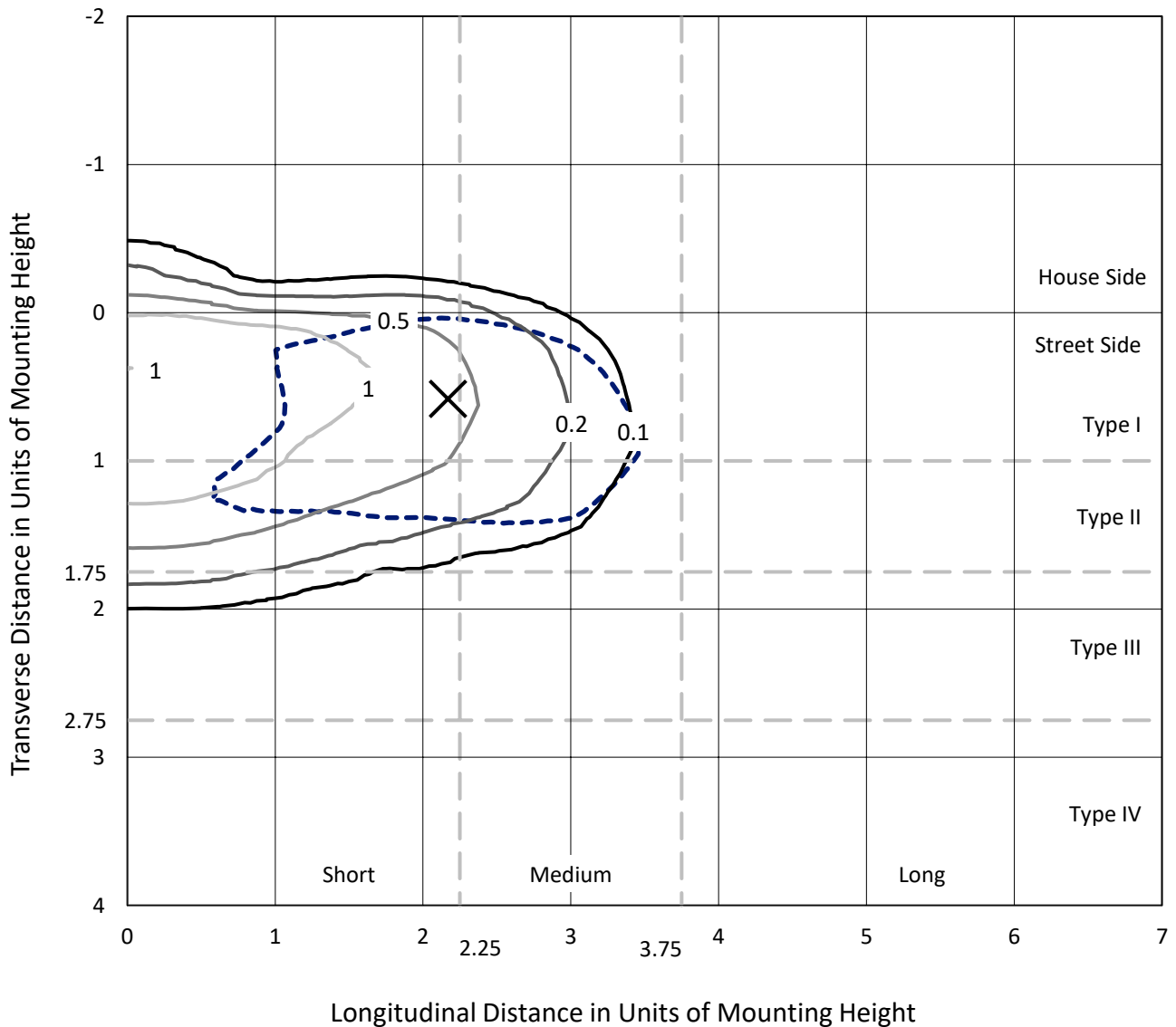
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

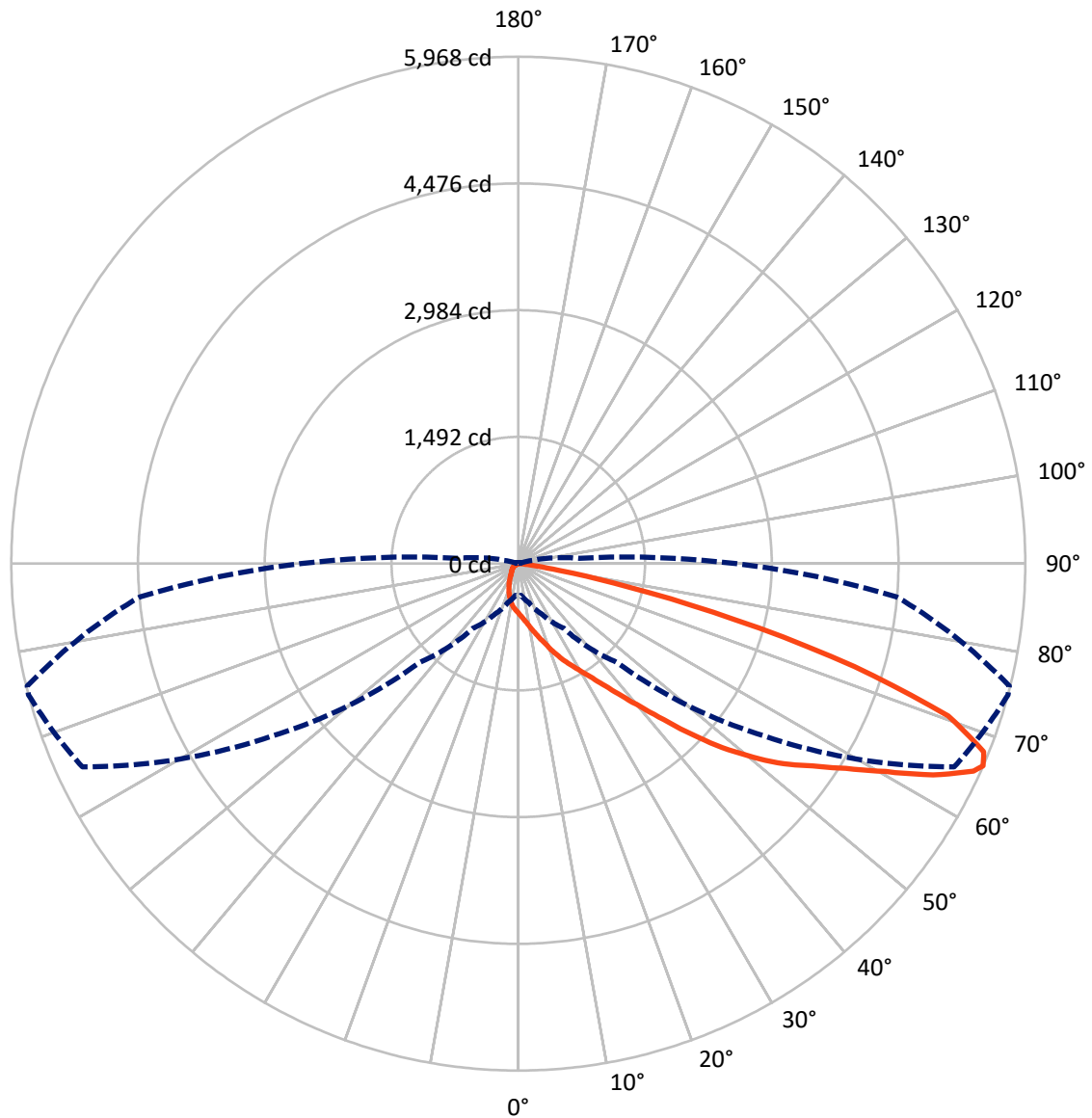
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	329.0	0.0	329.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5000.0	0.0	5000.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5329.0	0.0	5329.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.2	1.1
10°-20°	165.4	3.1
20°-30°	285.7	5.4
30°-40°	515.3	9.7
40°-50°	930.8	17.5
50°-60°	1451.2	27.2
60°-70°	1378.6	25.9
70°-80°	516.7	9.7
80°-90°	29.1	0.5
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°	5329.0	100.0
0°-180°	5329.0	100.0

**Coefficient of Utilization**



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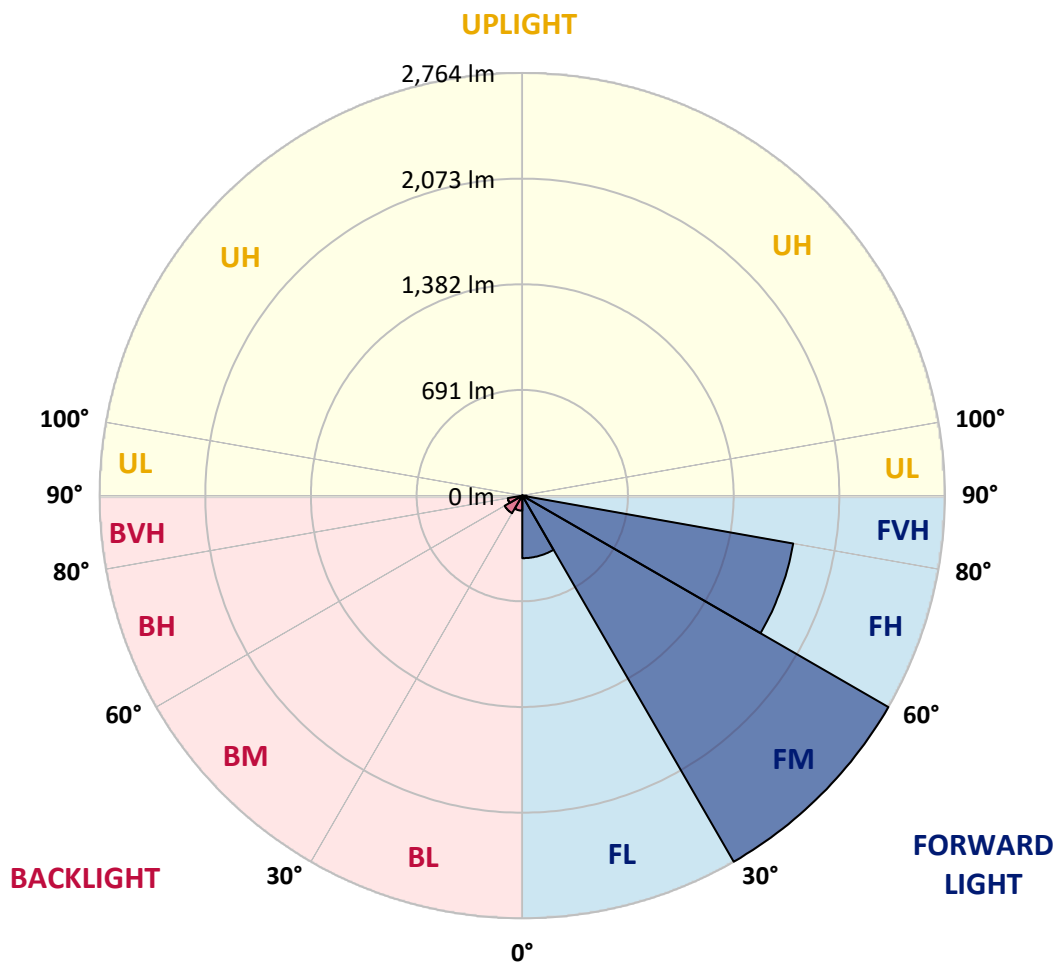
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.0	7.7			
FM (30°-60°)	2764.1	51.9			
FH (60°-80°)	1799.2	33.8			G1/1800
FVH (80°-90°)	27.6	0.5			G1/100
BL (0°-30°)	98.3	1.8	B0/110		
BM (30°-60°)	133.2	2.5	B0/220		
BH (60°-80°)	96.1	1.8	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8
2.5°	696.3	687.6	690.4	686.4	677.3	664.0	652.1	635.2	618.2	615.5	596.6
5°	788.1	785.7	782.6	771.1	764.8	744.3	719.9	690.7	655.7	649.4	615.1
7.5°	850.7	849.5	851.1	845.2	839.7	821.2	795.2	755.4	701.0	697.4	640.3
10°	871.2	874.4	880.3	889.7	898.4	892.5	872.8	823.1	759.7	749.5	669.1
12.5°	859.4	862.9	877.1	902.3	930.3	946.5	938.6	902.3	822.0	813.7	701.4
15°	829.1	833.4	853.5	892.5	942.5	988.2	1007.9	981.9	894.5	881.1	740.4
17.5°	784.1	790.4	819.2	870.8	939.4	1018.2	1073.7	1065.1	971.7	959.1	782.9
20°	750.2	755.0	779.4	838.5	926.0	1034.7	1136.4	1160.8	1067.0	1045.4	833.0
22.5°	772.7	774.3	782.6	818.0	901.9	1039.1	1191.6	1260.5	1168.3	1149.0	885.0
25°	882.6	866.9	858.6	850.7	896.8	1035.1	1241.6	1364.5	1269.2	1248.7	936.6
27.5°	1056.0	1048.9	1007.2	951.2	940.6	1040.3	1274.7	1463.1	1364.2	1342.1	987.1
30°	1244.8	1232.5	1206.9	1125.0	1042.6	1076.5	1298.7	1558.8	1476.5	1447.3	1033.2
32.5°	1418.1	1426.0	1387.8	1303.5	1208.1	1153.7	1329.9	1663.2	1605.3	1569.1	1086.8
35°	1620.3	1636.0	1577.3	1496.5	1385.0	1293.2	1390.6	1781.0	1768.8	1723.1	1169.5
37.5°	1825.6	1835.0	1799.2	1685.7	1585.2	1470.5	1504.8	1926.4	1970.2	1931.2	1268.4
40°	1998.2	2011.2	1984.8	1883.9	1776.7	1675.8	1670.7	2084.8	2209.8	2169.6	1415.8
42.5°	2130.2	2140.0	2140.8	2069.5	1972.9	1927.2	1882.3	2287.0	2510.0	2463.5	1586.8
45°	2296.8	2311.0	2302.7	2254.3	2182.2	2173.9	2150.6	2531.3	2869.4	2810.7	1808.6
47.5°	2554.5	2564.0	2543.5	2486.4	2413.1	2426.1	2412.3	2805.1	3235.8	3185.4	2038.3
50°	2733.4	2749.2	2778.3	2801.2	2748.0	2699.9	2659.0	3060.9	3583.8	3538.4	2273.2
52.5°	2731.5	2757.5	2849.7	2964.7	3081.0	3066.4	2948.6	3343.4	3915.9	3860.0	2493.9
55°	2547.4	2597.9	2733.4	2937.5	3259.5	3419.8	3366.2	3670.4	4202.8	4165.0	2749.6
57.5°	2167.6	2198.3	2386.7	2672.0	3159.8	3586.1	3850.1	4113.7	4546.8	4529.0	3146.8
60°	1457.9	1471.7	1714.1	2066.7	2690.1	3420.2	4204.8	4650.0	4970.4	4961.7	3610.5
62.5°	835.4	841.3	1017.0	1314.5	1914.2	2898.5	4234.7	5311.6	5478.3	5483.0	4147.2
65°	449.6	452.7	594.6	771.5	1164.8	2065.9	3808.0	5674.1	5888.9	5897.9	4479.8
66°	388.1	373.2	473.2	657.6	926.8	1644.3	3538.0	5661.1	5967.7	5957.8	4468.0
67.5°	295.1	308.5	377.9	505.5	686.8	1169.1	2921.0	5409.3	5907.8	5877.0	4286.3
70°	211.2	216.7	269.1	360.5	467.7	641.5	1866.5	4492.8	5369.5	5328.2	3734.3
72.5°	136.3	142.2	190.7	260.9	338.1	350.3	1045.0	3246.1	4139.7	4133.8	2812.2
75°	97.3	102.8	126.1	186.8	254.2	216.7	503.2	2187.7	2631.8	2614.0	1739.7
77.5°	70.5	73.3	84.3	122.2	181.7	155.3	233.3	1168.3	1310.2	1372.0	768.8
80°	40.6	42.9	58.7	74.5	122.9	106.0	111.5	468.9	483.5	460.2	240.4
82.5°	20.1	22.9	35.1	50.8	76.8	71.3	51.2	141.1	148.9	145.0	60.7
85°	4.7	5.9	19.7	33.5	37.4	31.9	24.8	41.4	51.2	50.0	23.2
87.5°	0.4	0.8	7.1	5.9	6.3	10.6	8.7	10.6	16.5	15.4	8.3
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°	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8
2.5°	587.9	580.4	558.7	537.5	519.7	501.2	484.3	474.4	470.5	466.1	468.1
5°	596.2	578.1	534.3	496.5	459.4	427.9	402.7	386.5	378.7	377.5	375.5
7.5°	607.2	576.1	508.3	449.2	400.7	365.7	336.9	313.7	306.6	300.3	295.1
10°	620.6	572.5	476.0	399.6	347.9	303.8	266.0	238.4	224.2	220.3	223.0
12.5°	634.8	565.8	442.1	353.8	294.3	238.0	202.9	189.1	185.2	183.6	184.0
15°	649.0	557.6	406.6	309.7	234.5	189.9	173.8	170.2	168.6	167.9	167.1
17.5°	662.0	544.2	366.8	266.8	189.9	162.3	156.4	153.3	150.1	148.9	147.0
20°	677.3	528.8	331.0	218.7	160.8	147.0	139.9	134.0	129.2	126.1	125.7
22.5°	691.9	509.1	293.6	181.3	146.6	132.0	120.6	114.3	108.8	104.8	106.0
25°	699.8	485.1	260.1	158.0	133.6	117.0	104.4	96.5	90.6	88.7	88.3
27.5°	699.8	455.5	227.4	144.6	121.8	103.6	90.6	83.1	79.2	76.4	76.8
30°	694.3	422.8	197.0	134.4	111.5	91.8	79.6	72.9	69.7	67.8	67.4
32.5°	690.0	391.7	171.0	124.5	100.9	81.6	70.9	65.8	62.7	60.7	60.7
35°	696.7	364.9	150.9	114.7	91.0	73.7	64.2	59.5	56.3	54.8	54.4
37.5°	714.4	340.4	135.5	104.0	82.0	67.0	59.5	54.0	50.8	48.9	48.1
40°	758.1	326.7	124.1	94.2	73.3	61.5	54.0	48.9	44.9	42.9	42.6
42.5°	828.3	327.0	113.1	85.1	66.6	56.7	49.3	43.3	39.0	37.0	36.6
45°	933.9	342.0	104.4	76.4	60.7	51.6	44.1	37.8	33.9	31.9	31.9
47.5°	1060.4	371.2	96.9	69.0	55.2	46.9	39.0	32.7	28.8	27.2	27.2
50°	1197.5	409.0	89.4	61.1	50.4	41.8	33.5	28.4	25.2	24.0	24.0
52.5°	1337.4	454.7	82.0	54.8	45.3	36.3	28.8	25.2	22.5	21.7	21.3
55°	1521.0	513.0	74.1	48.1	39.8	31.1	25.6	22.1	18.9	17.7	17.3
57.5°	1803.5	600.9	65.4	42.2	32.7	26.0	22.1	18.5	15.0	13.0	12.6
60°	2144.3	708.1	56.3	37.0	26.4	21.3	17.7	14.2	11.0	8.7	8.3
62.5°	2463.5	776.3	47.7	31.1	20.9	16.2	12.6	10.6	7.9	5.5	5.1
65°	2604.6	753.4	39.4	25.2	16.5	11.4	8.3	7.5	4.7	2.4	2.0
66°	2557.7	719.5	36.3	22.9	15.0	9.9	7.1	6.3	3.5	1.2	1.2
67.5°	2419.4	639.5	31.5	19.7	13.0	7.9	5.5	4.7	2.0	0.4	0.0
70°	2073.0	517.4	24.8	14.6	9.5	5.5	3.2	2.4	1.2	0.0	0.0
72.5°	1592.3	385.4	19.7	11.0	6.7	3.2	1.6	0.8	1.2	0.0	0.0
75°	975.6	220.3	15.4	8.3	4.3	2.0	1.2	0.0	1.2	0.4	0.0
77.5°	433.0	98.9	10.2	5.5	3.2	1.6	0.8	0.0	0.8	0.4	0.0
80°	109.5	32.3	5.9	3.9	2.4	1.2	0.4	0.0	0.8	0.8	0.4
82.5°	29.9	11.8	4.3	3.2	2.0	1.2	0.4	0.0	0.8	0.8	0.8
85°	11.8	5.5	3.9	3.2	2.4	1.2	0.4	0.0	0.8	0.8	0.8
87.5°	5.5	3.9	3.9	3.5	2.8	1.2	0.4	0.0	0.8	0.4	0.8
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)