

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: P451164

Luminaire Tested: **GALN-SA2A-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451164
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-SA2A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6261 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

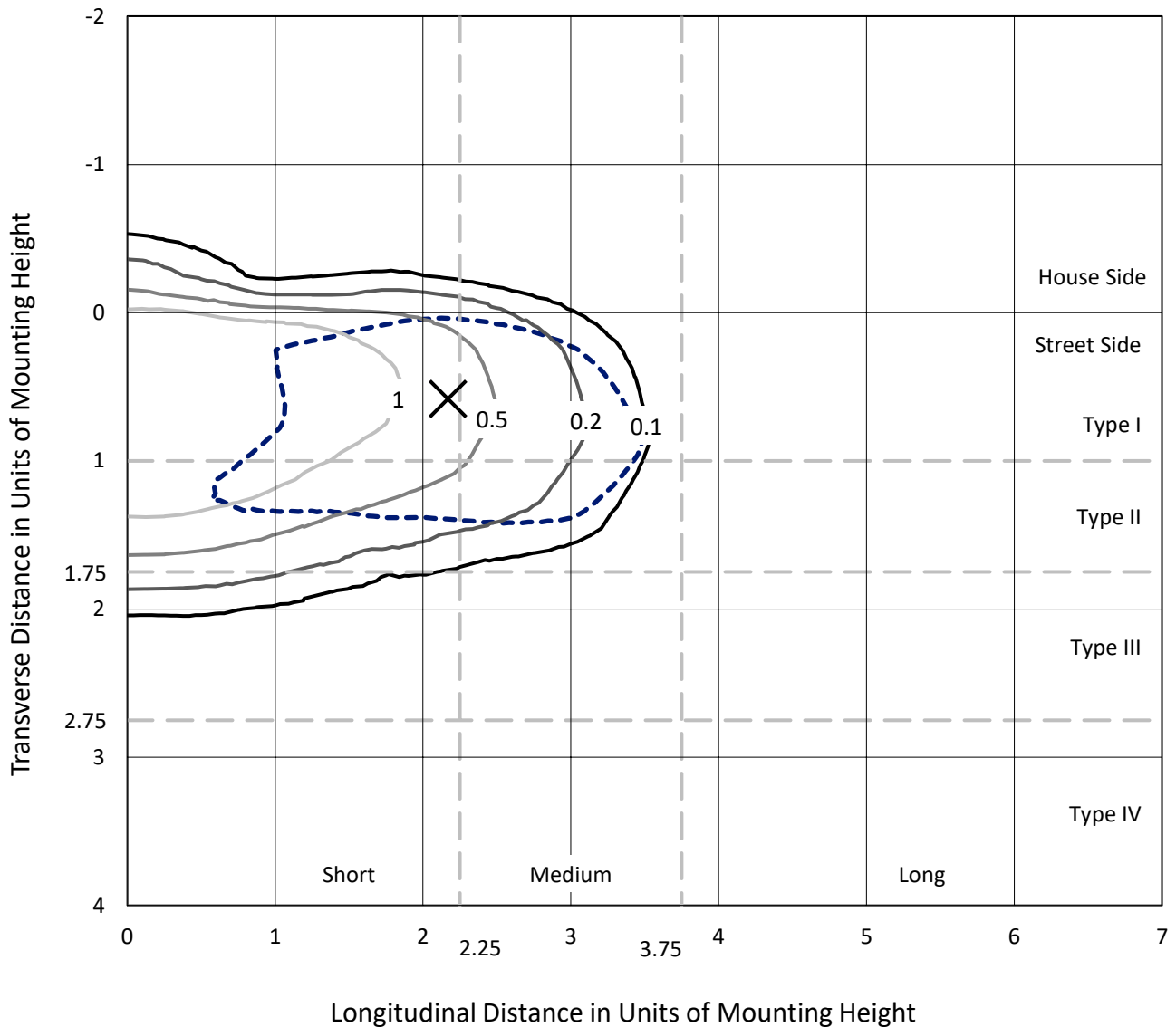
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

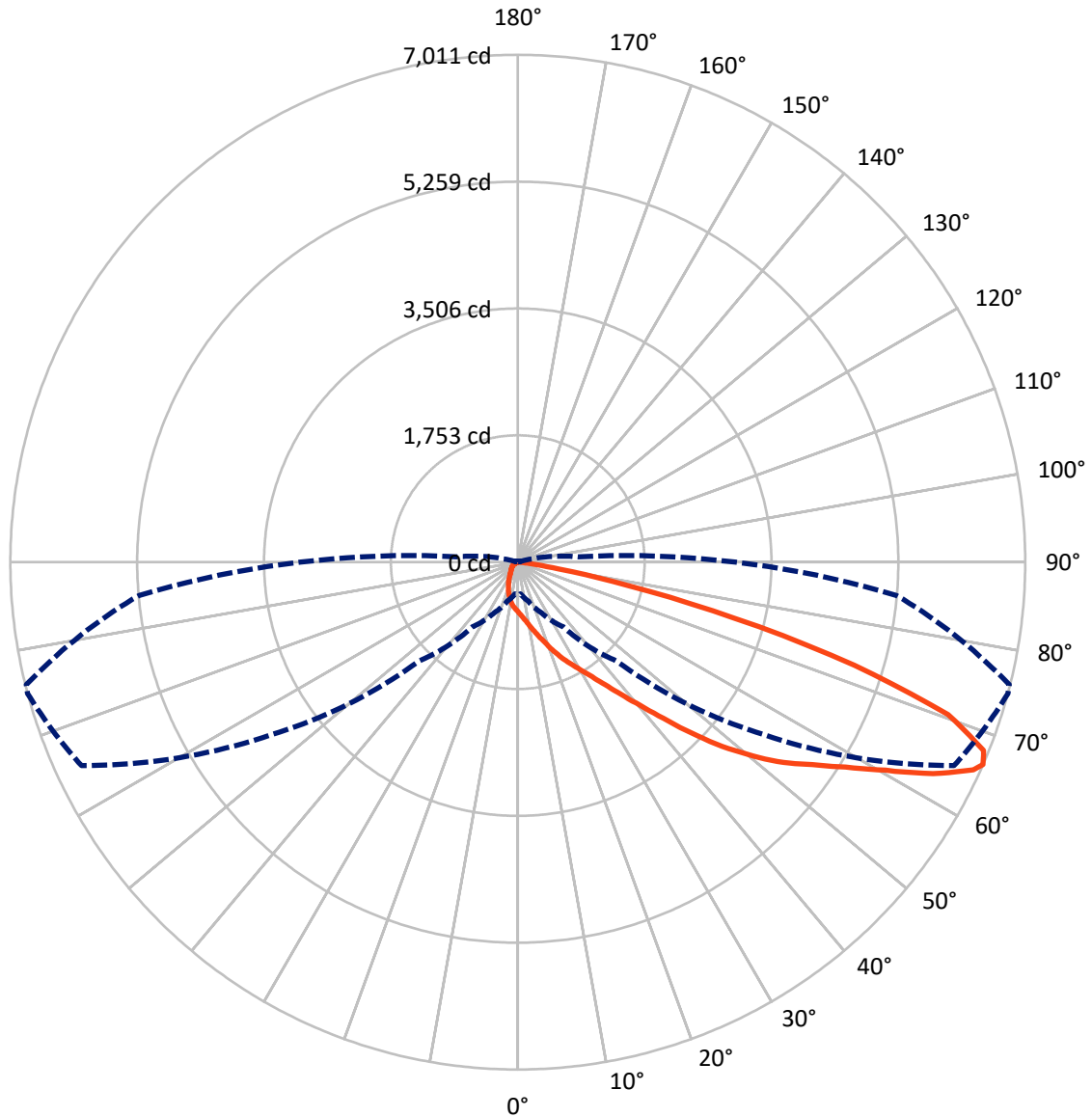
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
House Side	Lumens	386.5	0.0	386.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	5874.5	0.0	5874.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	6261.0	0.0	6261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.1
10°-20°	194.4	3.1
20°-30°	335.6	5.4
30°-40°	605.4	9.7
40°-50°	1093.6	17.5
50°-60°	1705.0	27.2
60°-70°	1619.7	25.9
70°-80°	607.0	9.7
80°-90°	34.2	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°	6261.0	100.0
0°-180°	6261.0	100.0

Coefficient of Utilization



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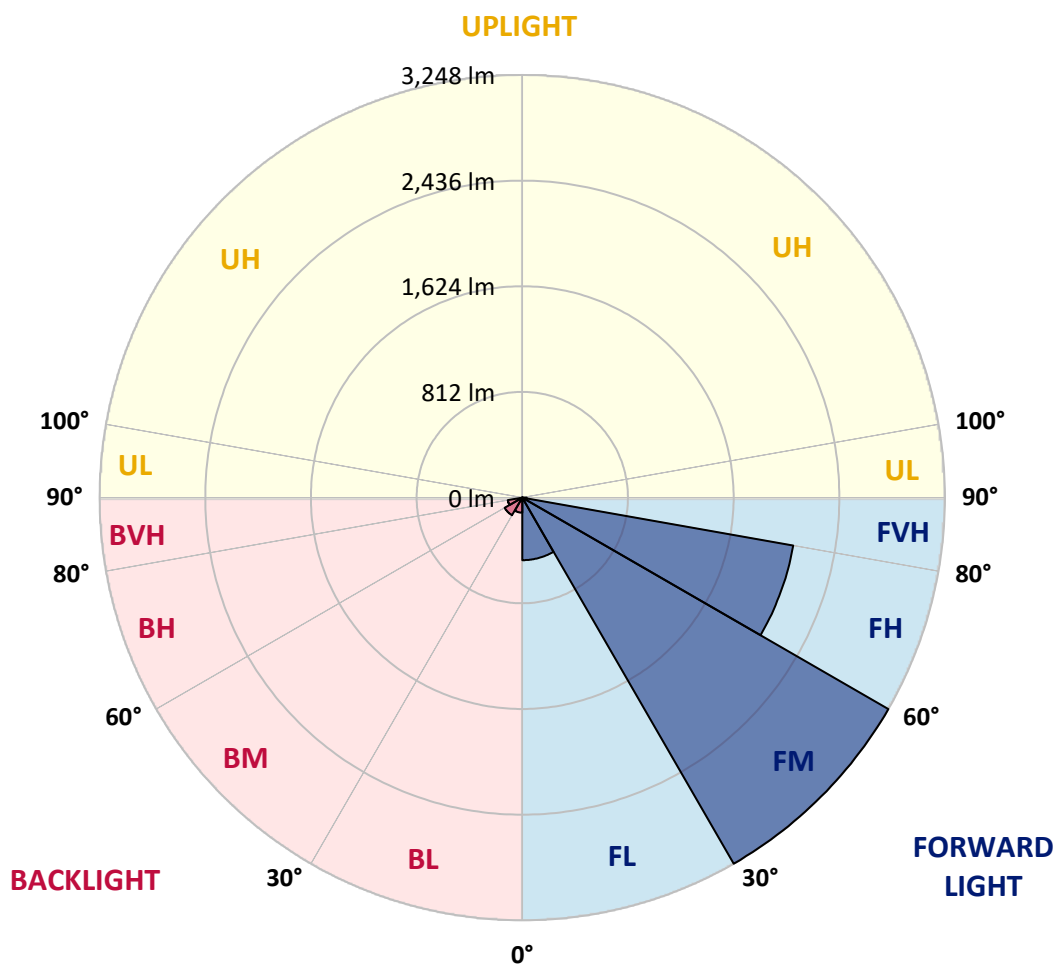
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.6	7.7			
FM (30°-60°)	3247.6	51.9			
FH (60°-80°)	2113.8	33.8			G2/5000
FVH (80°-90°)	32.5	0.5			G1/100
BL (0°-30°)	115.4	1.8	B1/500		
BM (30°-60°)	156.5	2.5	B0/220		
BH (60°-80°)	112.9	1.8	B1/500		G1/500
BVH (80°-90°)	1.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7
2.5°	818.0	807.8	811.1	806.5	795.8	780.1	766.2	746.3	726.4	723.1	700.9
5°	925.9	923.1	919.4	906.0	898.6	874.5	845.8	811.6	770.3	762.9	722.7
7.5°	999.5	998.1	1000.0	993.0	986.5	964.8	934.2	887.5	823.6	819.4	752.3
10°	1023.6	1027.3	1034.2	1045.3	1055.5	1048.6	1025.4	967.1	892.6	880.5	786.1
12.5°	1009.7	1013.9	1030.5	1060.2	1093.0	1112.0	1102.7	1060.2	965.7	956.0	824.1
15°	974.0	979.1	1002.7	1048.6	1107.4	1161.1	1184.2	1153.7	1050.9	1035.2	869.9
17.5°	921.3	928.7	962.5	1023.1	1103.7	1196.3	1261.5	1251.4	1141.6	1126.8	919.9
20°	881.5	887.0	915.7	985.2	1087.9	1215.7	1335.1	1363.8	1253.7	1228.2	978.7
22.5°	907.8	909.7	919.4	961.1	1059.7	1220.8	1400.0	1481.0	1372.6	1350.0	1039.8
25°	1037.0	1018.5	1008.8	999.5	1053.7	1216.2	1458.8	1603.2	1491.2	1467.1	1100.4
27.5°	1240.7	1232.4	1183.3	1117.6	1105.1	1222.2	1497.6	1718.9	1602.7	1576.8	1159.7
30°	1462.5	1448.1	1418.0	1321.7	1225.0	1264.8	1525.9	1831.4	1734.7	1700.4	1213.9
32.5°	1666.2	1675.4	1630.5	1531.4	1419.4	1355.5	1562.5	1954.1	1886.1	1843.5	1276.8
35°	1903.6	1922.2	1853.2	1758.3	1627.3	1519.4	1633.7	2092.5	2078.2	2024.5	1374.0
37.5°	2144.8	2156.0	2113.8	1980.5	1862.4	1727.7	1768.0	2263.4	2314.7	2268.9	1490.2
40°	2347.6	2362.9	2331.9	2213.4	2087.4	1968.9	1962.9	2449.5	2596.2	2549.0	1663.4
42.5°	2502.7	2514.3	2515.2	2431.4	2318.0	2264.3	2211.5	2687.0	2949.0	2894.4	1864.3
45°	2698.5	2715.2	2705.5	2648.5	2563.8	2554.1	2526.8	2974.0	3371.2	3302.2	2124.9
47.5°	3001.3	3012.4	2988.3	2921.2	2835.1	2850.4	2834.2	3295.7	3801.7	3742.5	2394.8
50°	3211.5	3230.0	3264.3	3291.1	3228.6	3172.1	3124.0	3596.2	4210.5	4157.3	2670.8
52.5°	3209.2	3239.7	3348.1	3483.2	3619.8	3602.7	3464.3	3928.1	4600.8	4535.1	2930.0
55°	2993.0	3052.2	3211.5	3451.3	3829.5	4017.9	3955.0	4312.4	4937.8	4893.4	3230.5
57.5°	2546.7	2582.8	2804.1	3139.3	3712.4	4213.3	4523.5	4833.2	5342.0	5321.1	3697.1
60°	1712.9	1729.1	2013.8	2428.2	3160.6	4018.4	4940.1	5463.3	5839.6	5829.5	4242.0
62.5°	981.5	988.4	1194.9	1544.4	2249.0	3405.5	4975.3	6240.6	6436.4	6441.9	4872.5
65°	528.2	531.9	698.6	906.5	1368.5	2427.2	4473.9	6666.5	6918.8	6929.4	5263.3
66°	456.0	438.4	556.0	772.7	1088.9	1931.9	4156.8	6651.2	7011.4	6999.8	5249.4
67.5°	346.7	362.5	444.0	594.0	806.9	1373.6	3431.8	6355.4	6941.0	6904.9	5036.0
70°	248.1	254.6	316.2	423.6	549.5	753.7	2193.0	5278.5	6308.6	6260.0	4387.4
72.5°	160.2	167.1	224.1	306.5	397.2	411.6	1227.7	3813.8	4863.7	4856.8	3304.1
75°	114.3	120.8	148.1	219.4	298.6	254.6	591.2	2570.3	3092.0	3071.2	2043.9
77.5°	82.9	86.1	99.1	143.5	213.4	182.4	274.1	1372.6	1539.3	1612.0	903.2
80°	47.7	50.5	69.0	87.5	144.4	124.5	131.0	550.9	568.0	540.7	282.4
82.5°	23.6	26.9	41.2	59.7	90.3	83.8	60.2	165.7	175.0	170.4	71.3
85°	5.6	6.9	23.1	39.4	44.0	37.5	29.2	48.6	60.2	58.8	27.3
87.5°	0.5	0.9	8.3	6.9	7.4	12.5	10.2	12.5	19.4	18.1	9.7
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°	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7
2.5°	690.7	681.9	656.5	631.5	610.6	588.9	569.0	557.4	552.8	547.7	550.0
5°	700.4	679.1	627.8	583.3	539.8	502.8	473.1	454.2	444.9	443.5	441.2
7.5°	713.4	676.8	597.2	527.8	470.8	429.6	395.8	368.5	360.2	352.8	346.7
10°	729.1	672.7	559.2	469.4	408.8	356.9	312.5	280.1	263.4	258.8	262.0
12.5°	745.8	664.8	519.4	415.7	345.8	279.6	238.4	222.2	217.6	215.7	216.2
15°	762.5	655.1	477.8	363.9	275.5	223.1	204.2	200.0	198.1	197.2	196.3
17.5°	777.8	639.3	431.0	313.4	223.1	190.7	183.8	180.1	176.4	175.0	172.7
20°	795.8	621.3	388.9	256.9	188.9	172.7	164.3	157.4	151.8	148.1	147.7
22.5°	812.9	598.1	344.9	213.0	172.2	155.1	141.7	134.3	127.8	123.1	124.5
25°	822.2	569.9	305.5	185.6	156.9	137.5	122.7	113.4	106.5	104.2	103.7
27.5°	822.2	535.2	267.1	169.9	143.1	121.8	106.5	97.7	93.1	89.8	90.3
30°	815.7	496.7	231.5	157.9	131.0	107.9	93.5	85.6	81.9	79.6	79.2
32.5°	810.6	460.2	200.9	146.3	118.5	95.8	83.3	77.3	73.6	71.3	71.3
35°	818.5	428.7	177.3	134.7	106.9	86.6	75.5	69.9	66.2	64.3	63.9
37.5°	839.3	400.0	159.3	122.2	96.3	78.7	69.9	63.4	59.7	57.4	56.5
40°	890.7	383.8	145.8	110.6	86.1	72.2	63.4	57.4	52.8	50.5	50.0
42.5°	973.1	384.2	132.9	100.0	78.2	66.7	57.9	50.9	45.8	43.5	43.1
45°	1097.2	401.8	122.7	89.8	71.3	60.6	51.9	44.4	39.8	37.5	37.5
47.5°	1245.8	436.1	113.9	81.0	64.8	55.1	45.8	38.4	33.8	31.9	31.9
50°	1406.9	480.5	105.1	71.8	59.3	49.1	39.4	33.3	29.6	28.2	28.2
52.5°	1571.3	534.2	96.3	64.3	53.2	42.6	33.8	29.6	26.4	25.5	25.0
55°	1787.0	602.8	87.0	56.5	46.8	36.6	30.1	25.9	22.2	20.8	20.4
57.5°	2118.9	706.0	76.8	49.5	38.4	30.6	25.9	21.8	17.6	15.3	14.8
60°	2519.4	831.9	66.2	43.5	31.0	25.0	20.8	16.7	13.0	10.2	9.7
62.5°	2894.4	912.0	56.0	36.6	24.5	19.0	14.8	12.5	9.3	6.5	6.0
65°	3060.1	885.2	46.3	29.6	19.4	13.4	9.7	8.8	5.6	2.8	2.3
66°	3005.0	845.3	42.6	26.9	17.6	11.6	8.3	7.4	4.2	1.4	1.4
67.5°	2842.5	751.4	37.0	23.1	15.3	9.3	6.5	5.6	2.3	0.5	0.0
70°	2435.6	607.9	29.2	17.1	11.1	6.5	3.7	2.8	1.4	0.0	0.0
72.5°	1870.8	452.8	23.1	13.0	7.9	3.7	1.9	0.9	1.4	0.0	0.0
75°	1146.3	258.8	18.1	9.7	5.1	2.3	1.4	0.0	1.4	0.5	0.0
77.5°	508.8	116.2	12.0	6.5	3.7	1.9	0.9	0.0	0.9	0.5	0.0
80°	128.7	38.0	6.9	4.6	2.8	1.4	0.5	0.0	0.9	0.9	0.5
82.5°	35.2	13.9	5.1	3.7	2.3	1.4	0.5	0.0	0.9	0.9	0.9
85°	13.9	6.5	4.6	3.7	2.8	1.4	0.5	0.0	0.9	0.9	0.9
87.5°	6.5	4.6	4.6	4.2	3.2	1.4	0.5	0.0	0.9	0.5	0.9
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)