

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: P652185

Luminaire Tested: **GALN-SA1B-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652185
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-SA1B-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA 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: 3619.7 lumens
Efficiency: N/A
Efficacy: 82.3 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

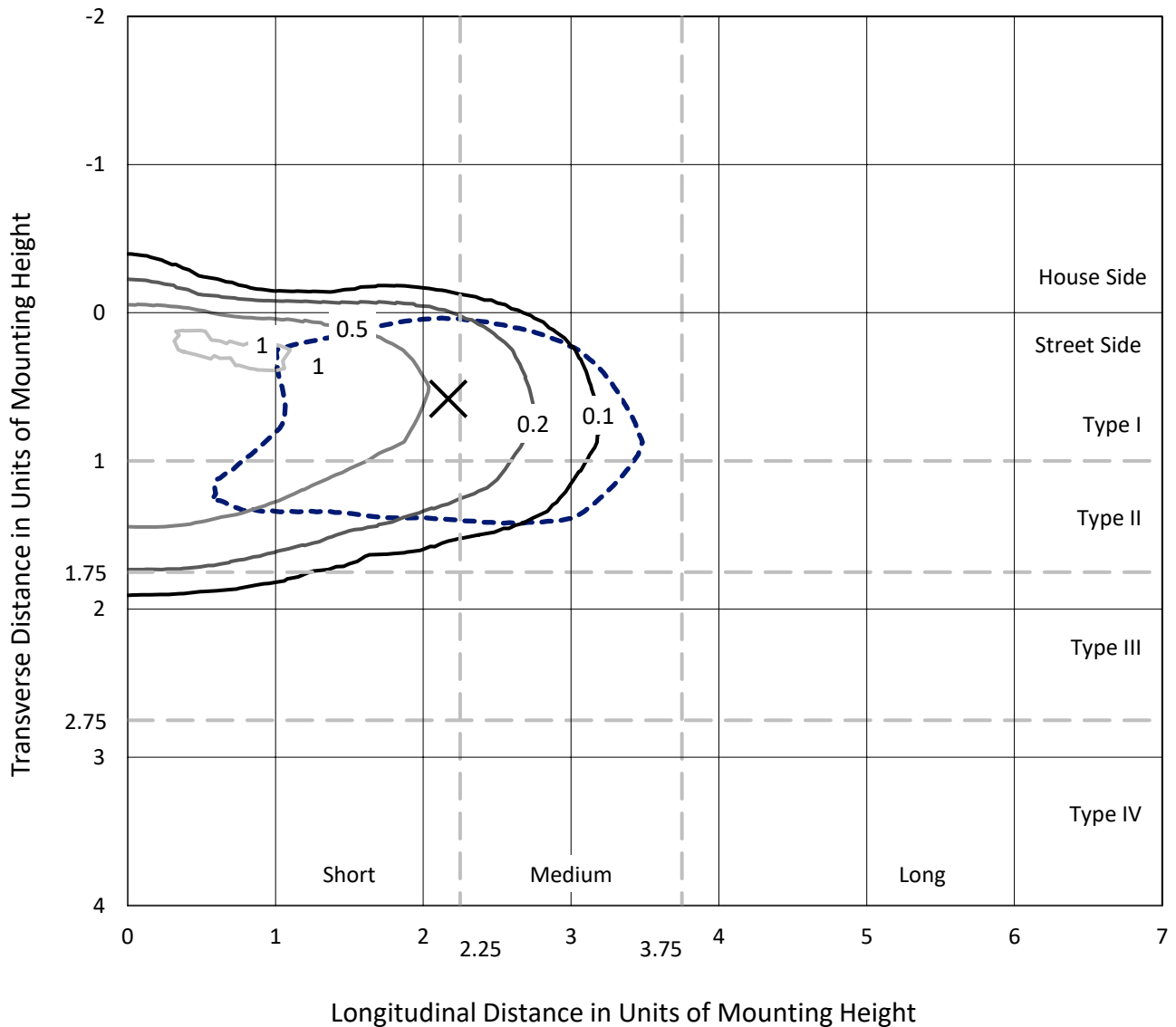
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

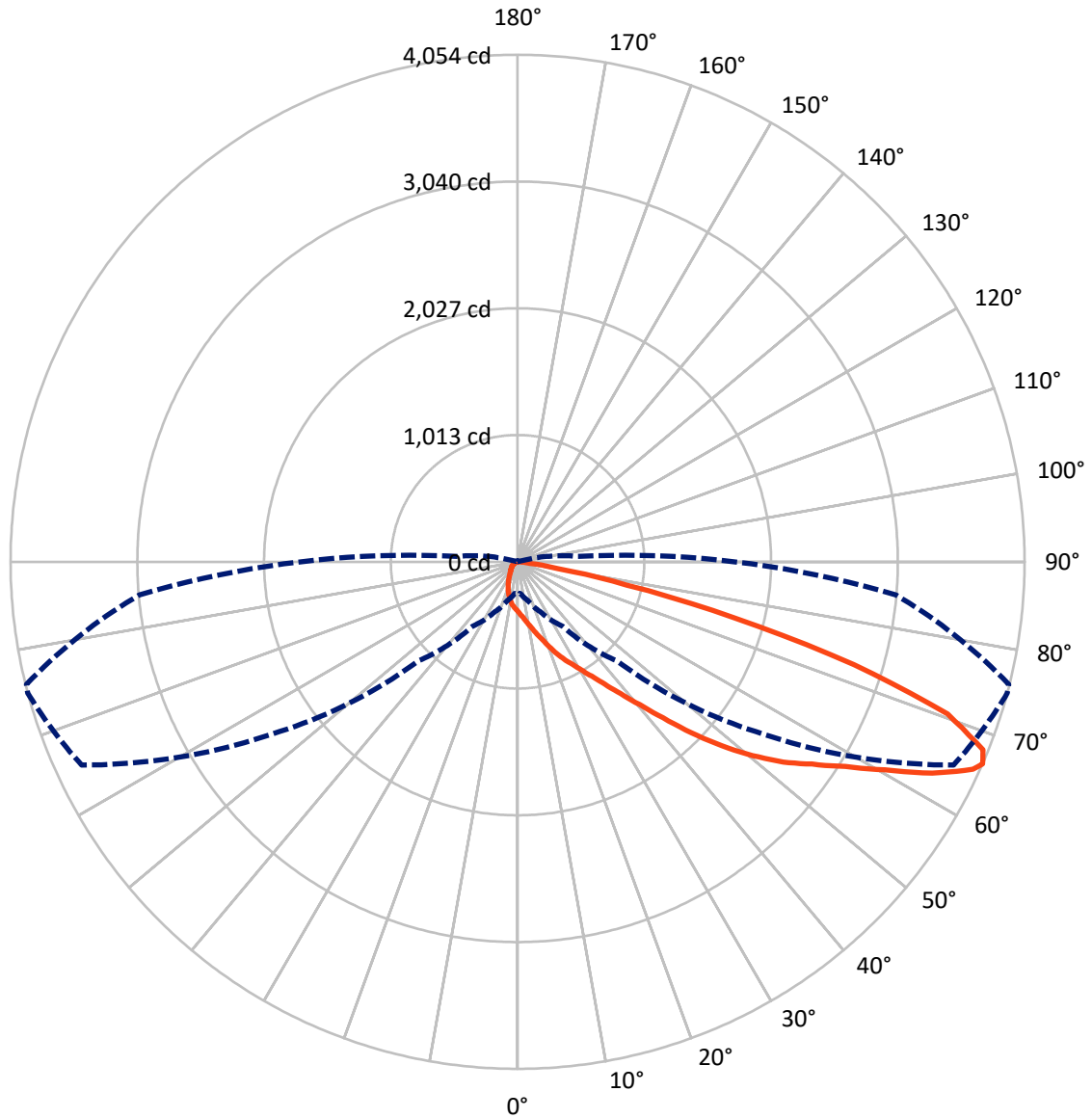
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	223.5	0.0	223.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3396.2	0.0	3396.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	3619.7	0.0	3619.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	1.1
10°-20°	112.4	3.1
20°-30°	194.0	5.4
30°-40°	350.0	9.7
40°-50°	632.3	17.5
50°-60°	985.7	27.2
60°-70°	936.4	25.9
70°-80°	350.9	9.7
80°-90°	19.8	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°	3619.7	100.0
0°-180°	3619.7	100.0

Coefficient of Utilization

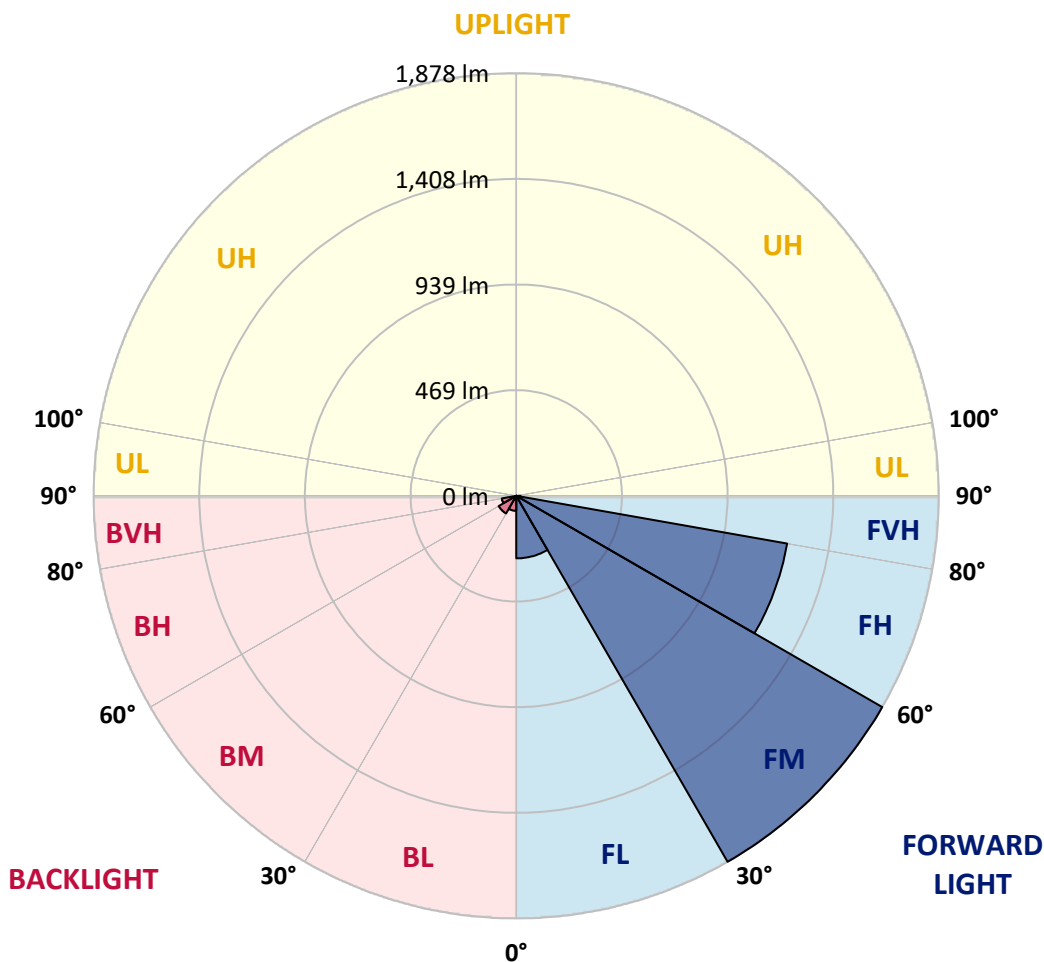


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.8	7.7			
FM (30°-60°)	1877.5	51.9			
FH (60°-80°)	1222.1	33.8			G1/1800
FVH (80°-90°)	18.8	0.5			G1/100
BL (0°-30°)	66.7	1.8	B0/110		
BM (30°-60°)	90.5	2.5	B0/220		
BH (60°-80°)	65.2	1.8	B0/110		G0/110
BVH (80°-90°)	1.0	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°	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9
2.5°	472.9	467.0	468.9	466.3	460.1	450.9	443.0	431.4	419.9	418.1	405.2
5°	535.3	533.7	531.5	523.8	519.5	505.6	489.0	469.2	445.4	441.1	417.8
7.5°	577.9	577.0	578.1	574.1	570.4	557.8	540.1	513.1	476.2	473.7	434.9
10°	591.7	593.9	598.0	604.3	610.2	606.2	592.8	559.1	516.0	509.1	454.5
12.5°	583.7	586.2	595.8	612.9	631.9	642.9	637.6	612.9	558.3	552.7	476.4
15°	563.1	566.1	579.7	606.2	640.2	671.3	684.7	667.0	607.5	598.5	502.9
17.5°	532.6	536.9	556.4	591.5	638.1	691.6	729.3	723.4	660.0	651.4	531.8
20°	509.6	512.8	529.4	569.5	629.0	702.8	771.9	788.5	724.8	710.1	565.8
22.5°	524.9	526.0	531.5	555.6	612.7	705.8	809.4	856.2	793.6	780.4	601.1
25°	599.5	588.8	583.2	577.9	609.1	703.1	843.4	926.9	862.1	848.1	636.2
27.5°	717.3	712.5	684.1	646.1	638.9	706.6	865.8	993.7	926.6	911.6	670.4
30°	845.5	837.2	819.8	764.1	708.2	731.2	882.1	1058.8	1002.9	983.0	701.7
32.5°	963.3	968.6	942.7	885.4	820.6	783.6	903.3	1129.7	1090.4	1065.8	738.1
35°	1100.5	1111.3	1071.3	1016.5	940.7	878.4	944.5	1209.8	1201.5	1170.4	794.4
37.5°	1240.0	1246.4	1222.1	1145.0	1076.7	998.9	1022.2	1308.5	1338.2	1311.7	861.5
40°	1357.2	1366.0	1348.1	1279.6	1206.8	1138.3	1134.8	1416.1	1500.9	1473.7	961.7
42.5°	1446.9	1453.6	1454.1	1405.6	1340.1	1309.0	1278.6	1553.4	1704.9	1673.3	1077.8
45°	1560.1	1569.7	1564.1	1531.2	1482.2	1476.6	1460.8	1719.3	1949.0	1909.1	1228.4
47.5°	1735.2	1741.5	1727.7	1688.8	1639.0	1647.9	1638.5	1905.4	2197.9	2163.6	1384.5
50°	1856.7	1867.4	1887.1	1902.7	1866.5	1833.9	1806.0	2079.0	2434.2	2403.4	1544.1
52.5°	1855.3	1873.0	1935.6	2013.8	2092.7	2082.8	2002.8	2271.0	2659.8	2621.8	1693.9
55°	1730.4	1764.6	1856.7	1995.3	2213.9	2322.9	2286.5	2493.1	2854.7	2829.0	1867.6
57.5°	1472.3	1493.2	1621.1	1814.9	2146.2	2435.9	2615.2	2794.2	3088.3	3076.3	2137.4
60°	990.3	999.6	1164.3	1403.8	1827.2	2323.2	2856.0	3158.5	3376.0	3370.1	2452.4
62.5°	567.4	571.5	690.8	892.9	1300.2	1968.8	2876.4	3607.8	3721.1	3724.3	2816.9
65°	305.4	307.6	403.8	524.0	791.1	1403.3	2586.5	3854.1	4000.0	4006.1	3042.8
66°	263.7	253.5	321.4	446.7	629.5	1116.8	2403.2	3845.2	4053.5	4046.8	3034.8
67.5°	200.5	209.6	256.7	343.4	466.5	794.1	1984.1	3674.2	4012.8	3991.9	2911.5
70°	143.5	147.2	182.8	244.9	317.7	435.7	1267.8	3051.7	3647.2	3619.1	2536.5
72.5°	92.6	96.6	129.5	177.2	229.7	237.9	709.8	2204.8	2811.9	2807.8	1910.2
75°	66.1	69.9	85.6	126.8	172.7	147.2	341.8	1486.0	1787.6	1775.5	1181.7
77.5°	47.9	49.8	57.3	83.0	123.4	105.5	158.4	793.6	889.9	931.9	522.2
80°	27.6	29.2	39.9	50.5	83.5	72.0	75.8	318.5	328.4	312.6	163.2
82.5°	13.6	15.6	23.8	34.6	52.2	48.4	34.8	95.8	101.2	98.5	41.2
85°	3.2	4.0	13.4	22.8	25.4	21.7	16.8	28.1	34.8	34.0	15.8
87.5°	0.3	0.5	4.8	4.0	4.3	7.2	5.9	7.2	11.3	10.4	5.6
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°	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9	395.9
2.5°	399.3	394.3	379.5	365.1	353.1	340.4	328.9	322.3	319.6	316.6	318.0
5°	404.9	392.7	362.9	337.2	312.1	290.6	273.5	262.6	257.2	256.4	255.1
7.5°	412.4	391.3	345.2	305.1	272.2	248.3	228.8	213.0	208.2	203.9	200.5
10°	421.5	388.9	323.3	271.4	236.3	206.4	180.6	161.9	152.3	149.6	151.5
12.5°	431.2	384.3	300.3	240.4	199.9	161.6	137.8	128.5	125.8	124.7	125.0
15°	440.9	378.7	276.2	210.3	159.3	129.0	118.0	115.6	114.5	114.0	113.5
17.5°	449.7	369.6	249.2	181.2	129.0	110.3	106.2	104.1	102.0	101.2	99.8
20°	460.1	359.2	224.8	148.5	109.2	99.8	95.0	91.0	87.8	85.6	85.4
22.5°	470.0	345.8	199.4	123.1	99.6	89.7	81.9	77.6	73.8	71.2	72.0
25°	475.3	329.5	176.6	107.3	90.7	79.5	70.9	65.6	61.6	60.2	60.0
27.5°	475.3	309.4	154.4	98.2	82.7	70.4	61.6	56.4	53.8	51.9	52.2
30°	471.5	287.2	133.8	91.2	75.8	62.4	54.1	49.5	47.3	46.0	45.8
32.5°	468.6	266.0	116.1	84.6	68.5	55.4	48.2	44.7	42.6	41.2	41.2
35°	473.2	247.8	102.5	77.9	61.8	50.0	43.6	40.5	38.3	37.2	36.9
37.5°	485.3	231.3	92.1	70.6	55.7	45.5	40.5	36.7	34.6	33.2	32.6
40°	514.9	221.9	84.3	64.0	49.8	41.7	36.7	33.2	30.5	29.2	28.9
42.5°	562.6	222.1	76.8	57.8	45.2	38.5	33.5	29.4	26.5	25.1	24.9
45°	634.3	232.3	70.9	51.9	41.2	35.1	29.9	25.7	23.0	21.7	21.7
47.5°	720.2	252.1	65.9	46.8	37.5	31.9	26.5	22.2	19.5	18.5	18.5
50°	813.3	277.8	60.7	41.5	34.2	28.3	22.8	19.3	17.2	16.3	16.3
52.5°	908.4	308.9	55.7	37.2	30.8	24.6	19.5	17.2	15.2	14.7	14.5
55°	1033.1	348.5	50.3	32.6	27.0	21.1	17.4	15.0	12.9	12.0	11.8
57.5°	1225.0	408.1	44.4	28.7	22.2	17.7	15.0	12.6	10.2	8.8	8.6
60°	1456.5	481.0	38.3	25.1	17.9	14.5	12.0	9.7	7.5	5.9	5.6
62.5°	1673.3	527.2	32.4	21.1	14.2	10.9	8.6	7.2	5.4	3.8	3.4
65°	1769.1	511.7	26.7	17.2	11.3	7.7	5.6	5.0	3.2	1.6	1.3
66°	1737.3	488.7	24.6	15.6	10.2	6.7	4.8	4.3	2.4	0.8	0.8
67.5°	1643.3	434.4	21.4	13.4	8.8	5.4	3.8	3.2	1.3	0.3	0.0
70°	1408.1	351.5	16.8	9.9	6.4	3.8	2.1	1.6	0.8	0.0	0.0
72.5°	1081.5	261.7	13.4	7.5	4.5	2.1	1.1	0.5	0.8	0.0	0.0
75°	662.7	149.6	10.4	5.6	2.9	1.3	0.8	0.0	0.8	0.3	0.0
77.5°	294.2	67.2	7.0	3.8	2.1	1.1	0.5	0.0	0.5	0.3	0.0
80°	74.4	22.0	4.0	2.7	1.6	0.8	0.3	0.0	0.5	0.5	0.3
82.5°	20.4	8.0	2.9	2.1	1.3	0.8	0.3	0.0	0.5	0.5	0.5
85°	8.0	3.8	2.7	2.1	1.6	0.8	0.3	0.0	0.5	0.5	0.5
87.5°	3.8	2.7	2.7	2.4	1.9	0.8	0.3	0.0	0.5	0.3	0.5
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)