

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: P652078

Luminaire Tested: **GALN-SA8A-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24864.2 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

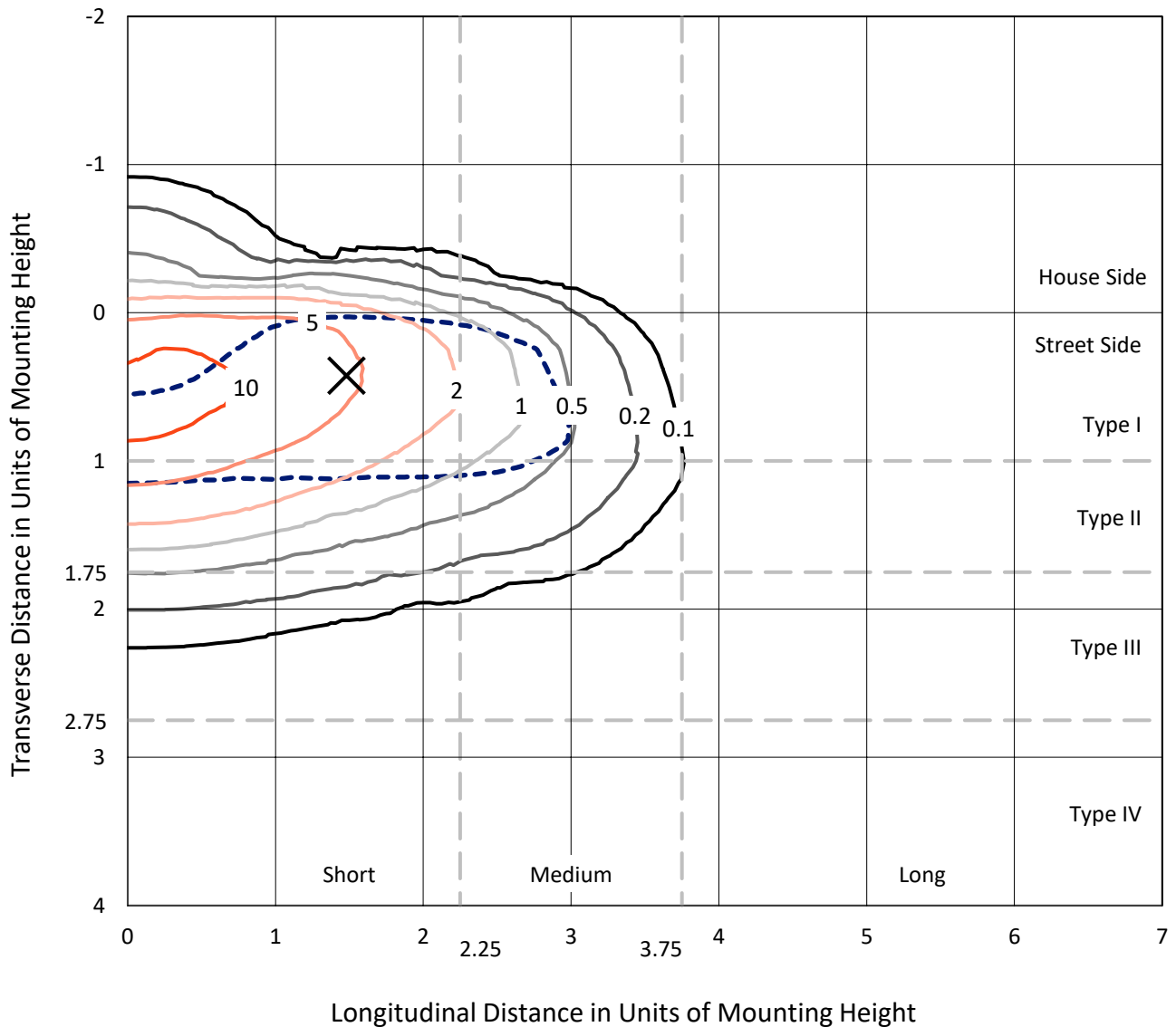
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

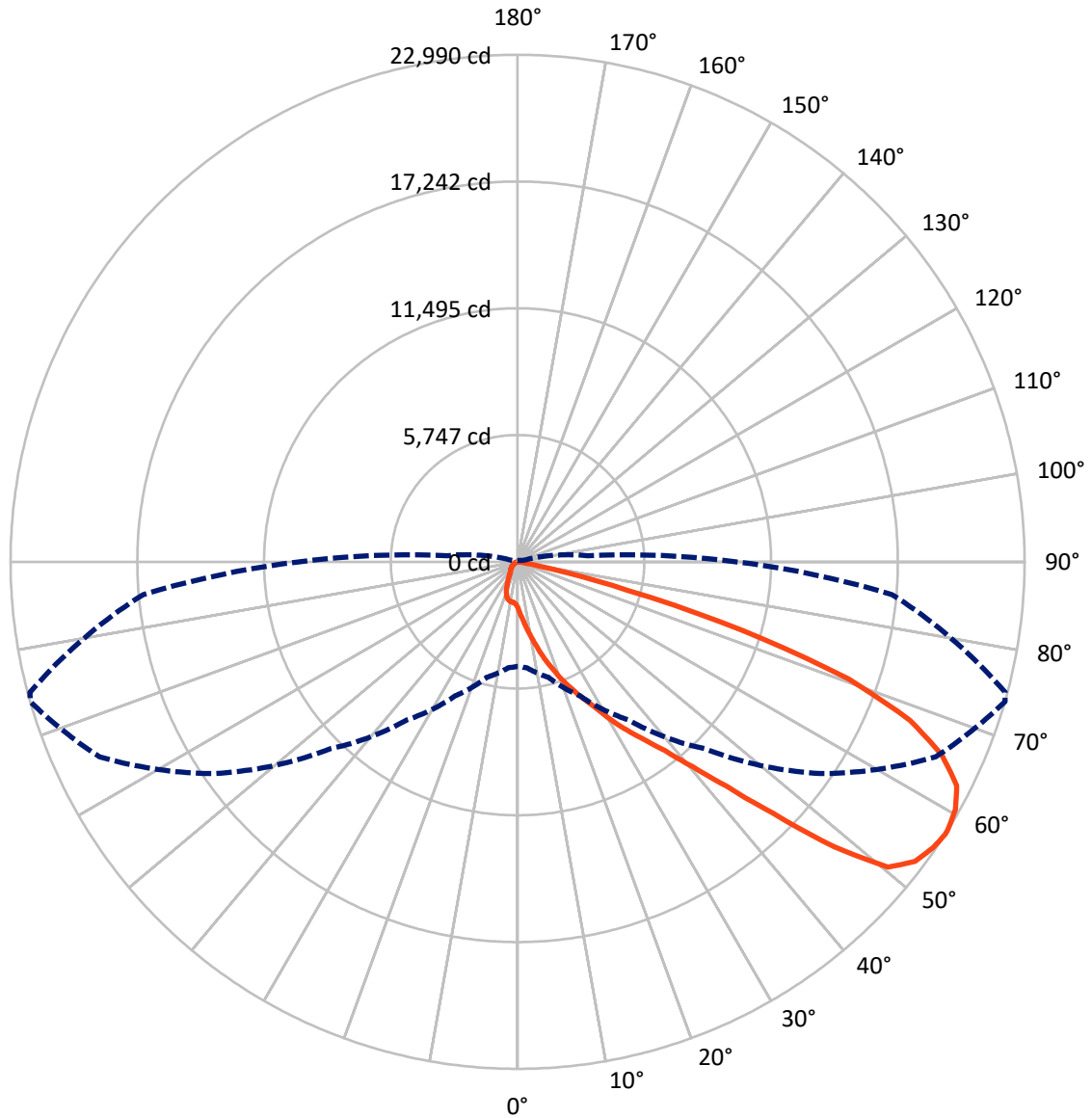
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1434.1	0.0	1434.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	23430.1	0.0	23430.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	24864.2	0.0	24864.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	1.0
10°-20°	990.7	4.0
20°-30°	2119.8	8.5
30°-40°	3896.3	15.7
40°-50°	5973.0	24.0
50°-60°	6318.6	25.4
60°-70°	4126.2	16.6
70°-80°	1127.4	4.5
80°-90°	60.7	0.2
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°	24864.2	100.0
0°-180°	24864.2	100.0

Coefficient of Utilization



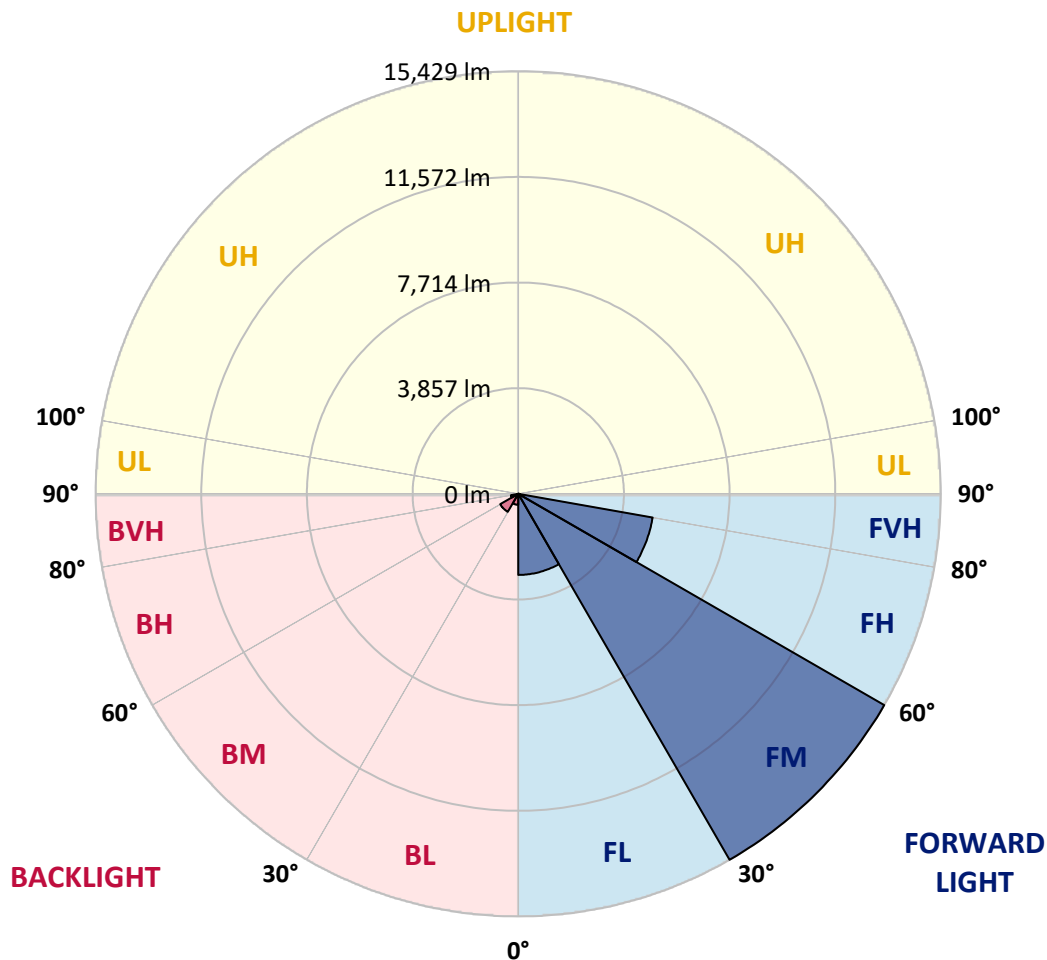
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2961.3	11.9			
FM (30°-60°)	15428.7	62.1			
FH (60°-80°)	4984.4	20.0			G2/5000
FVH (80°-90°)	55.7	0.2			G1/100
BL (0°-30°)	400.6	1.6	B1/500		
BM (30°-60°)	759.2	3.1	B1/1000		
BH (60°-80°)	269.2	1.1	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
2.5°	3047.1	3019.7	2964.7	2945.9	2865.1	2739.8	2630.0	2482.3	2365.6	2353.5	2212.8
5°	4080.5	4018.8	3993.0	3869.4	3675.4	3493.4	3181.0	2944.1	2671.2	2650.6	2367.3
7.5°	5076.3	4990.4	4964.7	4847.9	4621.3	4334.6	3929.5	3498.6	3066.0	3026.5	2575.1
10°	5797.3	5809.3	5763.0	5685.7	5502.0	5210.2	4710.6	4121.7	3505.5	3455.7	2808.5
12.5°	6314.0	6312.3	6320.9	6319.1	6221.3	5999.9	5474.5	4796.4	3989.6	3891.7	3076.3
15°	6650.5	6655.6	6681.3	6770.6	6780.9	6643.6	6205.8	5441.9	4550.9	4429.0	3366.4
17.5°	6990.3	7026.4	7067.6	7151.7	7227.2	7172.3	6863.3	6114.8	5059.0	4968.1	3677.1
20°	7551.7	7601.5	7577.5	7629.0	7668.4	7673.6	7434.9	6736.2	5675.4	5522.6	4032.5
22.5°	8449.5	8447.8	8386.0	8293.4	8216.1	8212.6	7996.3	7374.9	6235.0	6087.4	4389.6
25°	9584.3	9589.4	9469.2	9204.9	9012.6	8777.4	8528.5	7934.5	6834.1	6652.1	4765.5
27.5°	10885.5	10852.9	10670.9	10307.0	9925.9	9524.2	9165.4	8585.2	7469.3	7318.2	5196.4
30°	12054.6	12042.5	11829.7	11385.0	10883.8	10480.4	9960.2	9400.6	8291.6	8106.2	5678.8
32.5°	13143.0	13160.1	12864.9	12404.8	11920.7	11455.4	10906.1	10180.0	9098.4	8835.8	6204.1
35°	13992.7	14009.9	13704.3	13321.5	12823.7	12437.4	11913.8	11010.8	9895.0	9673.5	6808.4
37.5°	14445.9	14468.2	14291.4	14003.0	13692.3	13498.3	13010.8	12080.3	10863.2	10729.3	7522.5
40°	14531.7	14557.5	14480.3	14403.0	14385.8	14524.9	14382.4	13340.4	12205.7	11996.2	8586.9
42.5°	14274.3	14308.6	14342.9	14514.6	14864.8	15374.7	15870.8	15050.2	13934.4	13652.8	9888.1
45°	13597.9	13594.4	13730.1	14174.7	14959.2	16047.6	17426.1	17190.9	16289.7	15954.9	11726.7
47.5°	12440.8	12423.7	12717.2	13350.7	14572.9	16171.2	18694.8	19790.0	19295.6	18986.6	13702.6
50°	10677.8	10761.9	11223.7	12107.8	13613.4	15796.9	19086.2	21494.6	21762.5	21434.6	15299.1
52.5°	8612.6	8609.1	9333.6	10533.6	12191.9	14972.9	18813.2	21803.7	22564.1	22313.5	16085.4
55°	6374.0	6418.7	7172.3	8382.6	10346.5	13469.1	17922.2	21486.0	22869.7	22692.9	16603.8
57°	4741.5	4820.4	5424.7	6705.4	8739.7	11980.7	16736.0	20917.9	22989.9	22893.7	17034.7
57.5°	4425.6	4429.0	5017.9	6181.8	8269.3	11409.1	16396.1	20680.9	22986.5	22933.2	17105.1
60°	2724.4	2810.2	3217.1	4178.4	6053.0	8904.4	14118.0	19319.6	22807.9	22885.1	17405.5
62.5°	1630.9	1666.9	1931.3	2518.4	3902.0	6499.4	11553.3	17577.2	22342.7	22577.9	17384.9
65°	1048.9	1057.5	1177.7	1524.4	2439.4	4393.0	8902.7	15275.1	21139.3	21571.9	16705.1
67.5°	810.3	824.0	872.1	1000.8	1414.6	2736.4	6296.8	12818.5	19192.5	19750.5	15057.1
70°	719.3	726.1	743.4	784.5	935.6	1545.0	3917.5	10013.5	15915.4	16073.4	11783.3
72.5°	587.1	606.0	659.2	673.0	741.6	964.8	2180.2	6720.9	10693.2	10732.8	6592.1
75°	454.9	458.3	537.3	576.8	624.9	664.4	973.4	3388.7	5136.3	4861.7	2540.7
77.5°	339.9	355.3	391.4	441.2	509.8	475.5	436.1	1277.2	1594.8	1565.6	738.1
80°	218.0	226.6	273.0	331.4	396.5	310.7	245.5	374.2	350.2	360.5	176.8
82.5°	109.8	111.6	175.1	269.5	252.4	156.3	154.5	152.8	130.4	128.8	82.4
85°	12.0	25.7	113.3	154.5	113.3	51.5	72.1	70.4	68.6	70.4	48.1
87.5°	1.7	1.7	18.9	22.3	15.5	17.2	20.6	22.3	27.5	25.7	20.6
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°	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3	2082.3
2.5°	2144.1	2075.5	1948.4	1826.6	1735.6	1677.2	1601.7	1574.2	1534.7	1529.5	1510.7
5°	2236.8	2106.4	1884.9	1709.8	1569.1	1462.6	1369.9	1292.7	1230.9	1217.1	1224.0
7.5°	2369.0	2175.1	1866.0	1627.4	1431.7	1249.7	1102.1	1011.1	945.9	921.8	925.3
10°	2518.4	2266.0	1862.6	1539.9	1241.1	1018.0	856.6	775.9	738.1	724.4	709.0
12.5°	2695.2	2370.8	1854.0	1404.2	1031.7	812.0	696.9	648.9	612.8	602.6	602.6
15°	2894.3	2482.3	1812.9	1236.0	837.7	671.2	594.0	556.2	544.2	533.9	533.9
17.5°	3102.0	2592.2	1727.0	1028.3	695.3	575.1	527.1	504.7	487.5	475.5	475.5
20°	3338.9	2700.4	1589.7	844.6	587.1	513.3	475.5	449.8	436.1	425.7	422.3
22.5°	3563.8	2787.9	1414.6	693.6	511.6	461.8	427.5	400.0	386.3	381.1	381.1
25°	3797.3	2841.2	1203.4	573.4	466.9	418.9	381.1	358.8	346.7	343.3	341.6
27.5°	4023.9	2872.0	1018.0	501.2	425.7	379.4	343.3	326.1	314.1	310.7	312.4
30°	4298.6	2877.1	837.7	449.8	389.7	341.6	309.0	293.6	286.7	283.2	281.6
32.5°	4576.7	2870.3	703.8	418.9	355.3	309.0	281.6	269.5	264.4	259.2	259.2
35°	4889.2	2834.3	599.1	388.0	322.8	281.6	257.5	247.2	240.4	235.2	233.5
37.5°	5277.1	2815.3	539.1	353.6	293.6	255.7	233.5	223.2	218.0	211.2	209.4
40°	5888.3	2899.5	520.2	322.8	264.4	231.8	211.2	199.1	192.3	185.4	183.7
42.5°	6650.5	3047.1	489.3	291.8	238.6	209.4	188.8	175.1	163.1	154.5	151.0
45°	7637.5	3241.1	441.2	259.2	216.3	185.4	166.5	149.4	133.9	127.1	125.3
47.5°	8672.7	3428.3	398.3	233.5	192.3	164.8	144.2	125.3	111.6	106.5	104.7
50°	9307.9	3466.0	370.8	204.3	168.2	142.5	121.9	104.7	96.1	91.0	91.0
52.5°	9598.0	3405.9	333.0	178.5	145.9	125.3	104.7	91.0	85.9	82.4	80.7
55°	9800.6	3313.2	283.2	154.5	125.3	106.5	92.7	82.4	75.5	72.1	70.4
57°	9919.0	3187.9	245.5	135.7	108.2	92.7	82.4	73.8	66.9	60.0	60.0
57.5°	9924.1	3139.8	235.2	133.9	103.0	89.2	80.7	72.1	63.5	56.7	54.9
60°	9771.4	2810.2	188.8	113.3	82.4	75.5	66.9	56.7	44.7	37.8	36.1
62.5°	9280.4	2391.4	156.3	96.1	66.9	58.4	48.1	42.9	30.9	22.3	22.3
65°	8537.1	1939.9	133.9	77.3	54.9	42.9	32.6	30.9	18.9	10.3	8.6
67.5°	7462.4	1510.7	113.3	63.5	46.3	30.9	22.3	20.6	10.3	3.4	0.0
70°	5685.7	1030.0	94.4	51.5	34.3	22.3	15.5	12.0	6.9	1.7	0.0
72.5°	3277.1	566.5	79.0	39.4	25.7	17.2	12.0	6.9	6.9	0.0	0.0
75°	1170.8	243.8	60.0	29.2	20.6	13.7	8.6	3.4	5.1	1.7	0.0
77.5°	372.6	130.4	39.4	22.3	17.2	10.3	6.9	3.4	3.4	1.7	0.0
80°	109.8	68.6	24.1	18.9	12.0	8.6	5.1	1.7	3.4	1.7	0.0
82.5°	60.0	34.3	18.9	13.7	12.0	6.9	5.1	1.7	1.7	1.7	0.0
85°	30.9	20.6	15.5	13.7	12.0	6.9	5.1	1.7	0.0	1.7	1.7
87.5°	17.2	15.5	15.5	13.7	12.0	8.6	5.1	1.7	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)