

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: P652083

Luminaire Tested: **GALN-SA8A-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652083
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-SA8A-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA 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: 22801.2 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

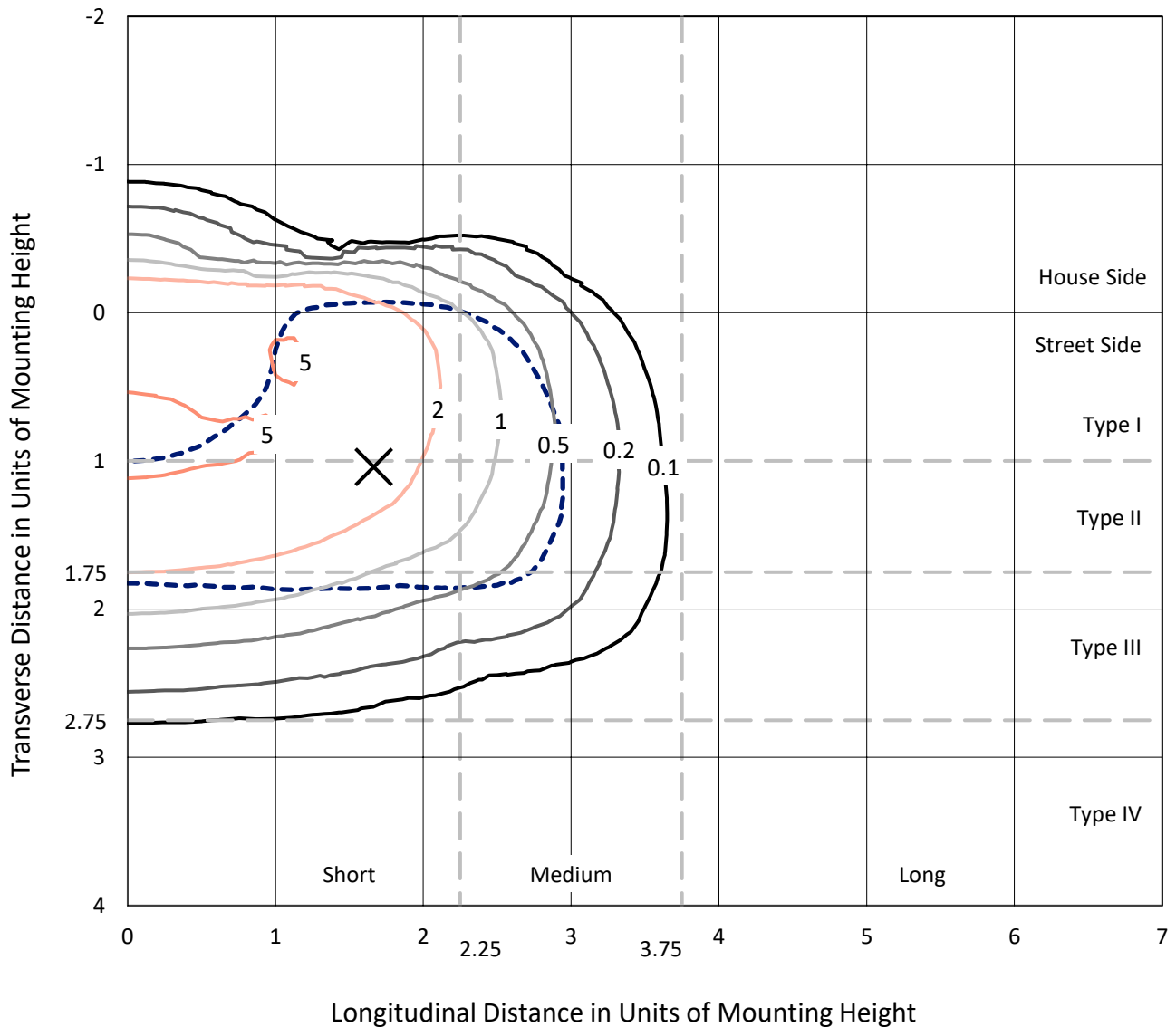
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

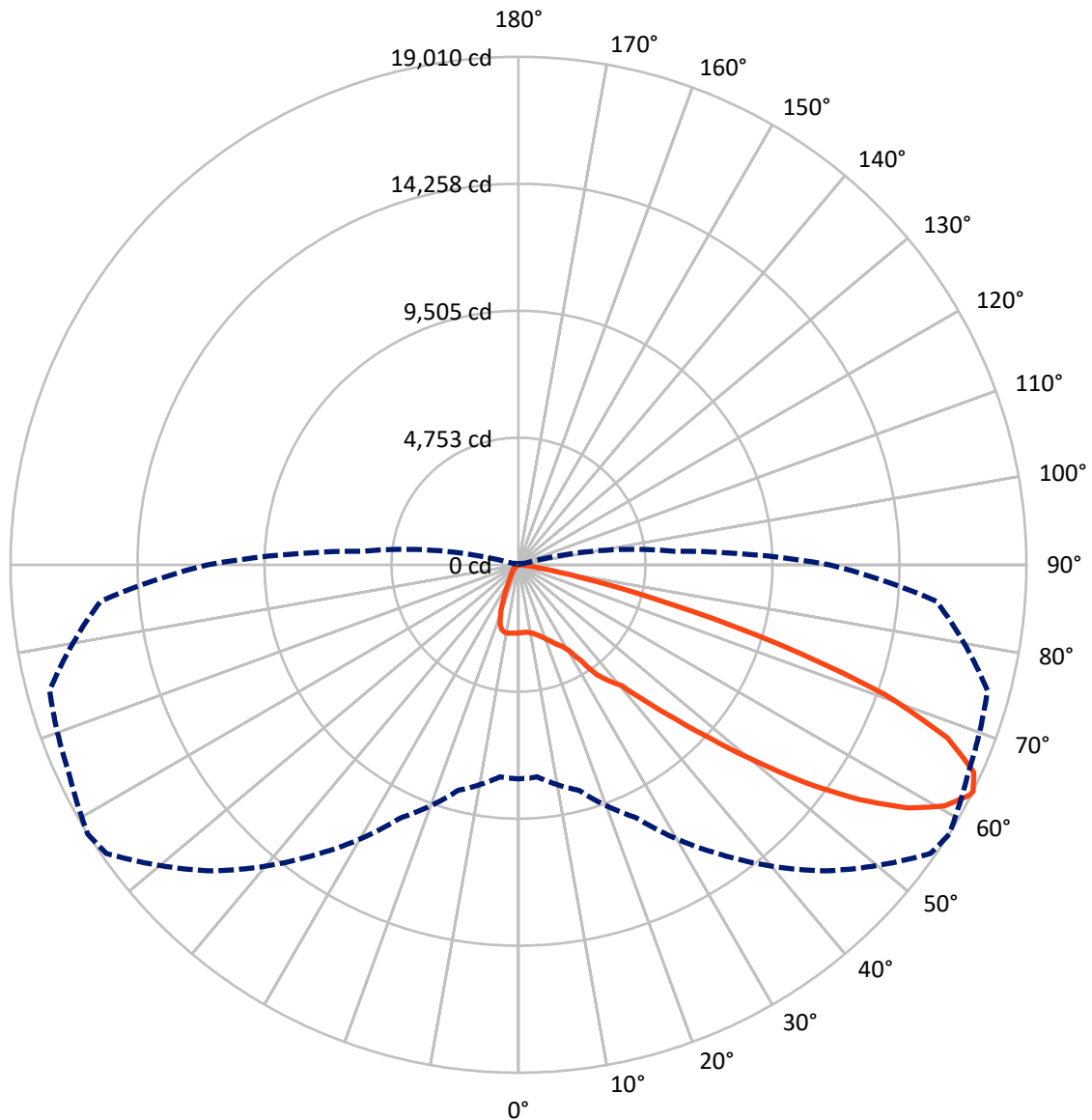
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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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
House Side	Lumens	2360.9	0.0	2360.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20440.3	0.0	20440.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	22801.2	0.0	22801.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.0	1.0
10°-20°	650.9	2.9
20°-30°	1129.6	5.0
30°-40°	2075.8	9.1
40°-50°	3907.6	17.1
50°-60°	6683.6	29.3
60°-70°	6399.5	28.1
70°-80°	1631.9	7.2
80°-90°	83.4	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°	22801.2	100.0
0°-180°	22801.2	100.0

Coefficient of Utilization

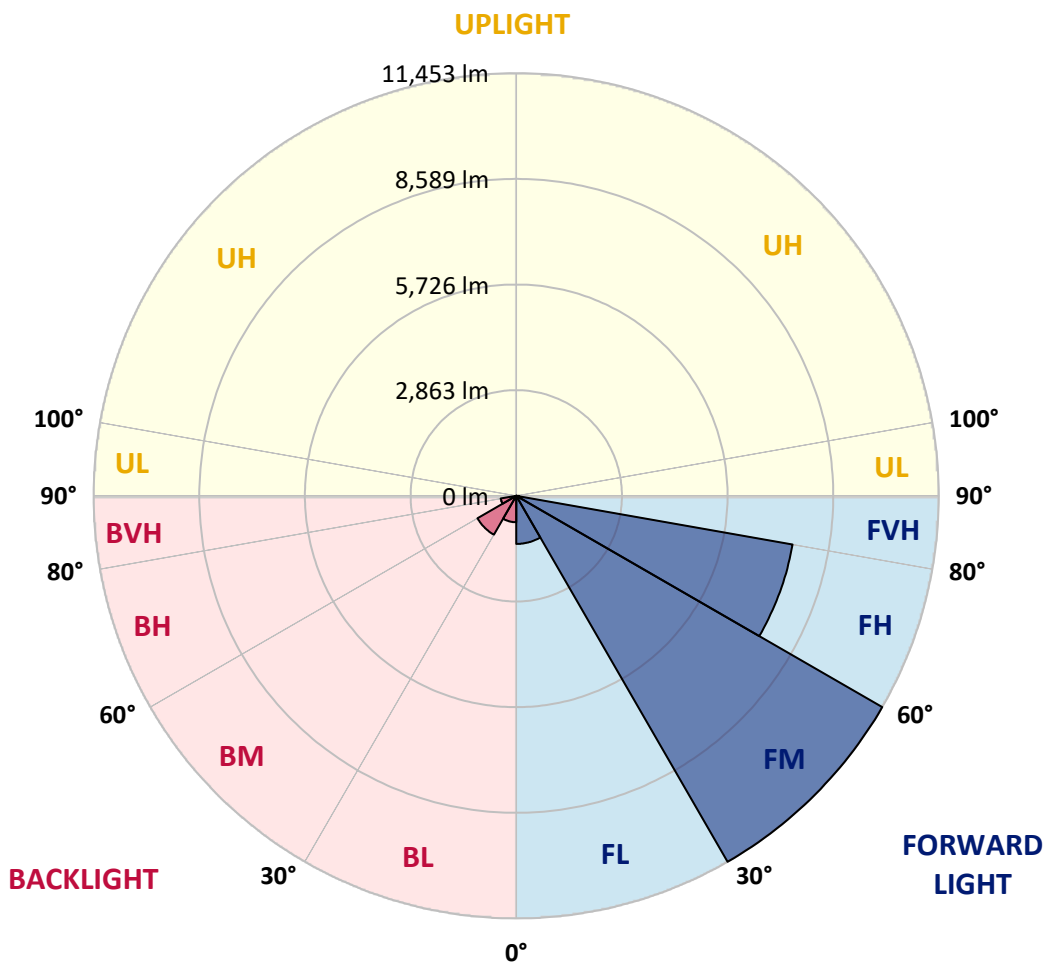


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1303.4	5.7			
FM (30°-60°)	11452.6	50.2			
FH (60°-80°)	7604.1	33.3			G4/12000
FVH (80°-90°)	80.2	0.4			G1/100
BL (0°-30°)	716.0	3.1	B2/1000		
BM (30°-60°)	1214.3	5.3	B2/2500		
BH (60°-80°)	427.4	1.9	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7
2.5°	2489.2	2497.8	2506.3	2509.8	2521.8	2533.8	2542.3	2540.7	2554.4	2561.3	2561.3
5°	2389.6	2389.6	2411.9	2432.5	2466.8	2501.2	2533.8	2540.7	2566.4	2590.4	2599.0
7.5°	2305.5	2310.6	2327.8	2365.6	2411.9	2472.0	2537.2	2552.7	2597.3	2650.5	2672.9
10°	2266.0	2269.4	2291.7	2331.3	2389.6	2472.0	2562.9	2592.1	2660.8	2744.9	2775.9
12.5°	2257.4	2262.5	2284.9	2329.5	2396.4	2496.0	2619.6	2650.5	2750.1	2858.2	2904.6
15°	2272.9	2276.3	2298.6	2346.6	2420.5	2539.0	2695.2	2738.0	2856.5	2981.8	3041.9
17.5°	2327.8	2324.4	2339.8	2379.3	2461.7	2592.1	2786.1	2837.6	2976.7	3148.4	3187.8
20°	2561.3	2539.0	2525.2	2490.9	2523.5	2667.7	2896.0	2971.6	3143.2	3318.3	3345.8
22.5°	3064.3	3014.5	2916.6	2782.7	2679.7	2770.7	3028.2	3115.7	3337.2	3508.9	3508.9
25°	3704.6	3641.0	3543.2	3251.4	2999.0	2940.6	3177.6	3287.4	3548.3	3721.8	3665.1
27.5°	4506.2	4456.5	4265.9	3926.0	3539.8	3237.6	3351.0	3452.2	3735.5	3944.9	3826.5
30°	5158.6	5134.6	4978.3	4674.4	4248.7	3807.5	3673.7	3740.6	3984.4	4226.4	4104.6
32.5°	5709.6	5709.6	5550.0	5266.8	4868.5	4477.1	4221.3	4269.3	4502.8	4782.6	4556.0
35°	6315.6	6295.1	6166.3	5896.8	5450.4	5105.4	5000.7	5065.8	5277.0	5484.7	4926.8
37.5°	6952.5	6945.7	6811.8	6550.8	6186.9	5752.5	5507.0	5524.2	5632.3	5759.4	5361.1
40°	7644.4	7654.6	7479.5	7318.1	6974.8	6530.2	6059.8	5951.7	6052.9	6411.8	6162.8
42.5°	8461.5	8437.4	8361.9	8142.1	7865.8	7599.7	7034.9	6995.4	7084.7	7469.2	7199.7
45°	9410.8	9445.1	9314.7	9192.7	9007.4	8785.9	8313.8	8245.2	8343.0	8940.4	8557.6
47.5°	10361.8	10329.2	10413.3	10391.0	10490.5	10325.7	9908.6	9767.8	10003.0	10569.5	10006.5
50°	11086.2	11122.3	11297.4	11553.2	11980.6	12073.3	11673.3	11625.2	11730.0	12093.9	11302.5
52.5°	11556.6	11676.8	11951.5	12608.9	13379.7	13978.8	13675.0	13649.2	13606.3	13704.2	12541.9
55°	11863.9	11985.8	12344.5	13312.8	14639.7	15613.1	15628.6	15518.6	15235.4	15165.0	13700.7
57.5°	11675.0	11699.1	12210.6	13505.0	15338.4	16778.7	17283.4	17173.6	16649.9	16383.9	14723.8
60°	10494.0	10543.8	11256.2	12777.1	15034.6	17159.8	18380.3	18330.5	17757.2	17456.8	15520.4
62.5°	8401.3	8545.6	9278.6	10974.6	13621.8	16517.7	18824.9	18965.7	18519.4	18105.6	15771.0
63°	8016.8	7970.5	8744.7	10449.3	13247.5	16200.2	18831.8	19010.4	18553.7	18167.5	15702.3
65°	5934.5	6073.5	6576.5	8240.0	11024.4	14722.1	18407.8	18723.7	18426.6	17894.5	14941.9
67.5°	3332.0	3325.1	3881.4	5392.1	7716.4	11548.0	16644.8	17312.6	17250.8	16057.7	12385.7
70°	1630.9	1656.6	1884.9	2794.7	4475.4	7967.0	13831.2	14552.2	14574.5	12612.3	8564.4
72.5°	738.1	750.2	913.2	1361.3	2300.3	4241.9	9531.0	10219.3	10092.3	8037.4	4729.4
75°	389.7	415.5	503.0	684.9	1108.9	1749.3	5184.3	5850.4	5584.3	3672.0	1740.7
77.5°	288.4	297.0	341.6	436.1	594.0	681.5	2236.8	2660.8	2492.6	1328.7	576.8
80°	211.2	218.0	254.1	309.0	374.2	346.7	842.9	966.5	866.9	451.4	176.8
82.5°	128.8	130.4	185.4	230.0	235.1	194.0	278.1	298.7	312.4	254.1	96.1
85°	46.3	58.4	125.3	166.5	139.0	97.8	116.7	128.8	140.8	161.4	56.7
87.5°	5.1	6.9	60.0	80.7	39.4	36.1	42.9	48.1	51.5	60.0	27.5
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°	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7	2552.7
2.5°	2568.2	2575.0	2569.8	2561.3	2559.6	2554.4	2544.1	2544.1	2544.1	2547.6	2544.1
5°	2605.9	2611.1	2599.0	2581.9	2562.9	2539.0	2513.2	2497.8	2496.0	2492.6	2484.0
7.5°	2678.0	2684.9	2657.4	2616.2	2564.7	2506.3	2451.4	2399.9	2375.8	2357.0	2357.0
10°	2782.7	2789.6	2734.7	2660.8	2557.8	2439.4	2308.9	2190.5	2097.8	2054.8	2044.6
12.5°	2908.0	2911.5	2820.5	2691.7	2521.8	2293.5	2015.4	1756.2	1575.9	1493.5	1485.0
15°	3045.3	3021.3	2901.2	2703.7	2418.8	1993.1	1512.4	1194.8	1007.7	952.8	973.4
17.5°	3184.4	3139.8	2962.9	2684.9	2187.0	1512.4	1016.3	815.4	757.1	741.6	741.6
20°	3314.9	3253.1	3007.6	2602.5	1785.4	1042.0	753.6	705.5	695.3	684.9	686.7
22.5°	3445.3	3351.0	3047.1	2418.8	1330.4	745.0	674.7	659.2	645.5	631.8	630.0
25°	3572.4	3441.9	3062.5	2078.9	906.4	640.3	616.3	595.7	568.2	552.8	549.3
27.5°	3704.6	3551.8	3052.2	1649.7	660.9	573.4	549.3	520.2	487.5	460.0	460.0
30°	3958.7	3761.2	3016.2	1186.2	556.2	504.7	473.8	427.5	391.4	363.9	362.2
32.5°	4305.4	4034.2	2892.6	834.3	494.4	444.6	398.3	346.7	309.0	288.4	288.4
35°	4614.4	4308.9	2660.8	614.6	444.6	386.3	329.6	279.8	250.6	236.9	231.8
37.5°	5084.8	4710.5	2341.5	499.6	396.5	334.7	276.4	230.0	206.0	195.7	195.7
40°	5790.3	5201.5	1950.1	437.7	350.2	284.9	230.0	194.0	175.1	163.1	163.1
42.5°	6665.9	5802.3	1553.6	393.1	307.3	245.5	192.3	164.8	147.6	139.0	137.3
45°	7767.9	6435.8	1196.5	351.9	273.0	209.4	163.1	139.0	121.9	116.7	118.4
47.5°	8918.0	6993.7	927.0	315.9	236.9	176.8	139.0	120.2	108.2	101.3	101.3
50°	9900.0	7378.3	703.8	274.7	209.4	149.4	121.9	108.2	97.8	94.4	92.7
52.5°	10720.6	7489.8	539.0	238.6	183.7	128.8	108.2	97.8	89.2	84.1	84.1
55°	11419.3	7392.0	422.3	200.8	154.5	111.6	96.1	87.5	77.3	72.1	70.4
57.5°	11827.8	7077.8	322.7	166.5	125.3	92.7	84.1	73.8	61.8	53.2	53.2
60°	12033.8	6621.2	247.2	137.3	96.1	73.8	68.6	54.9	42.9	36.1	34.3
62.5°	11786.6	6015.2	187.1	108.2	72.1	54.9	46.3	39.4	27.5	20.6	20.6
63°	11633.8	5840.1	180.2	103.0	66.9	51.5	42.9	36.1	24.1	18.9	17.2
65°	10605.6	5076.2	147.6	82.4	53.2	36.1	29.2	25.7	17.2	8.6	6.9
67.5°	8421.9	3883.1	116.7	61.8	37.8	25.7	17.2	15.5	5.1	0.0	0.0
70°	5694.2	2508.0	91.0	44.7	25.7	15.5	8.6	6.9	1.7	0.0	0.0
72.5°	2969.8	1285.8	70.4	32.6	15.5	10.3	5.1	1.7	0.0	0.0	0.0
75°	1050.6	437.7	51.5	20.6	10.3	5.1	1.7	0.0	0.0	0.0	0.0
77.5°	317.6	163.1	32.6	15.5	6.9	3.4	0.0	0.0	0.0	0.0	0.0
80°	111.6	60.0	18.9	10.3	5.1	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	54.9	29.2	12.0	8.6	5.1	1.7	0.0	0.0	0.0	0.0	0.0
85°	30.9	18.9	10.3	8.6	5.1	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	22.3	13.7	10.3	8.6	6.9	3.4	1.7	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)