

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: P530141

Luminaire Tested: **GALN-SA5B-750-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-750-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17017 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

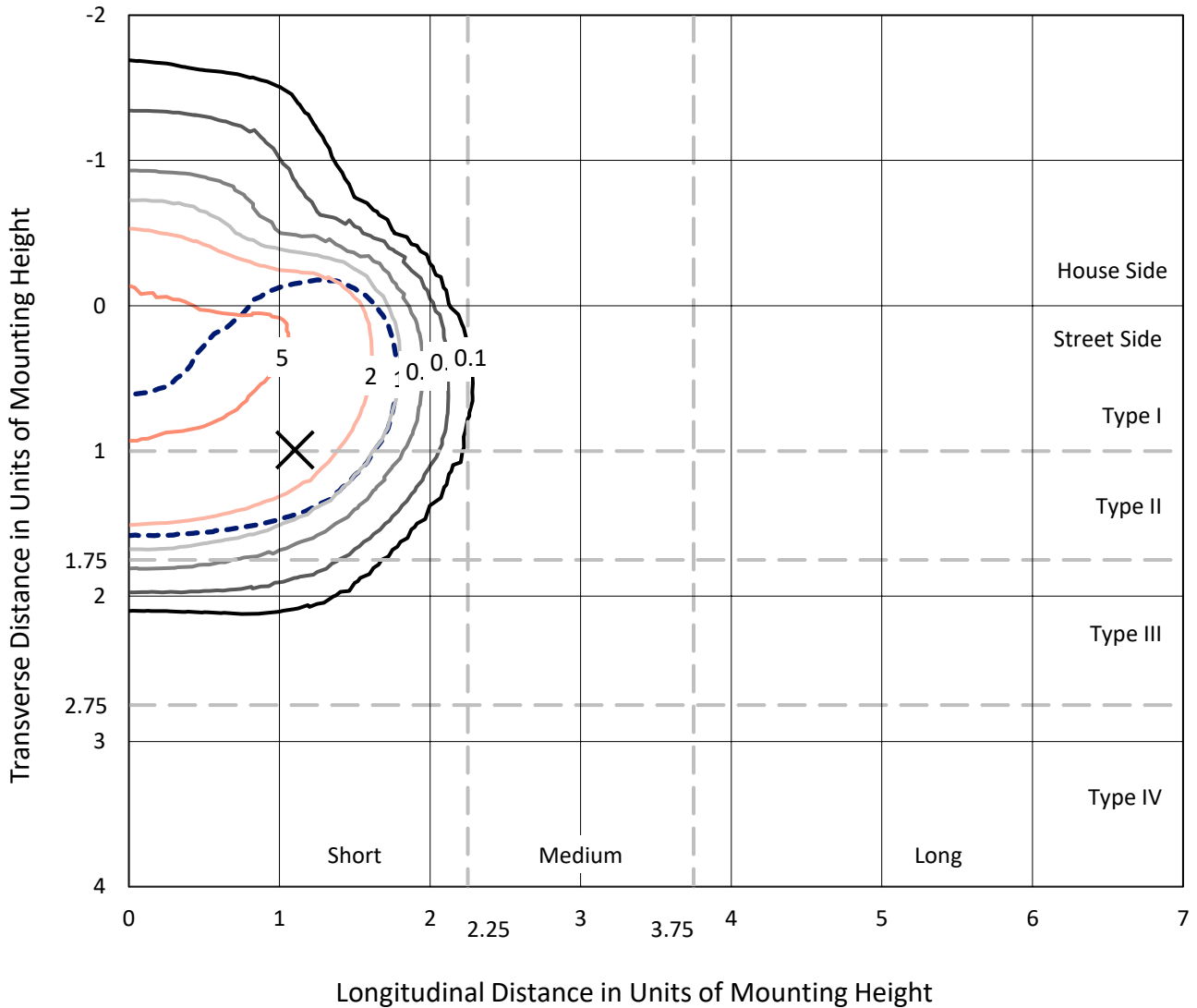
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

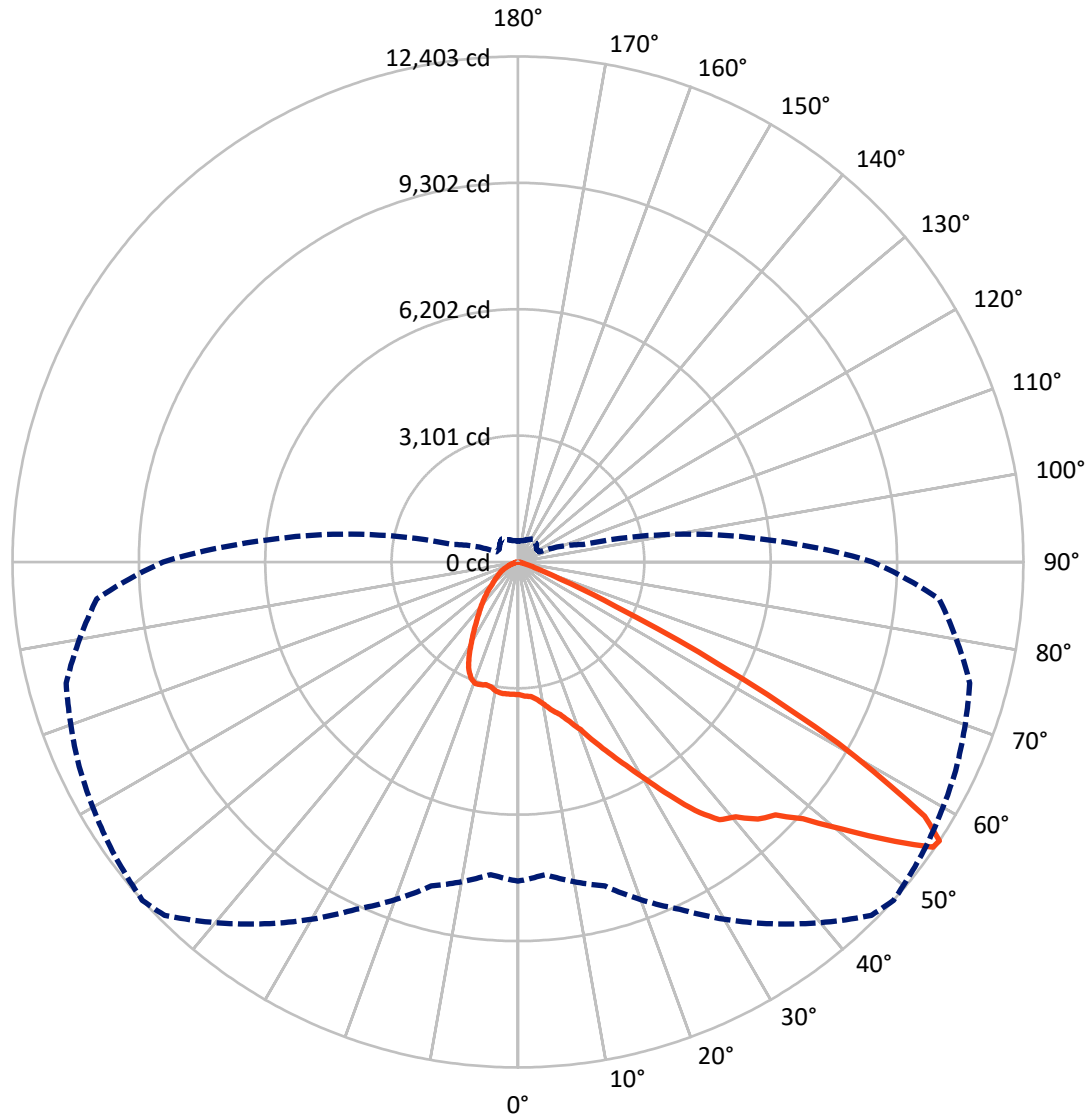
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3700.9	0.0	3700.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13316.1	0.0	13316.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	17017.0	0.0	17017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	1.9
10°-20°	1011.8	5.9
20°-30°	1835.3	10.8
30°-40°	2882.8	16.9
40°-50°	4205.5	24.7
50°-60°	5066.8	29.8
60°-70°	1483.5	8.7
70°-80°	188.2	1.1
80°-90°	26.4	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°	17017.0	100.0
0°-180°	17017.0	100.0

Coefficient of Utilization

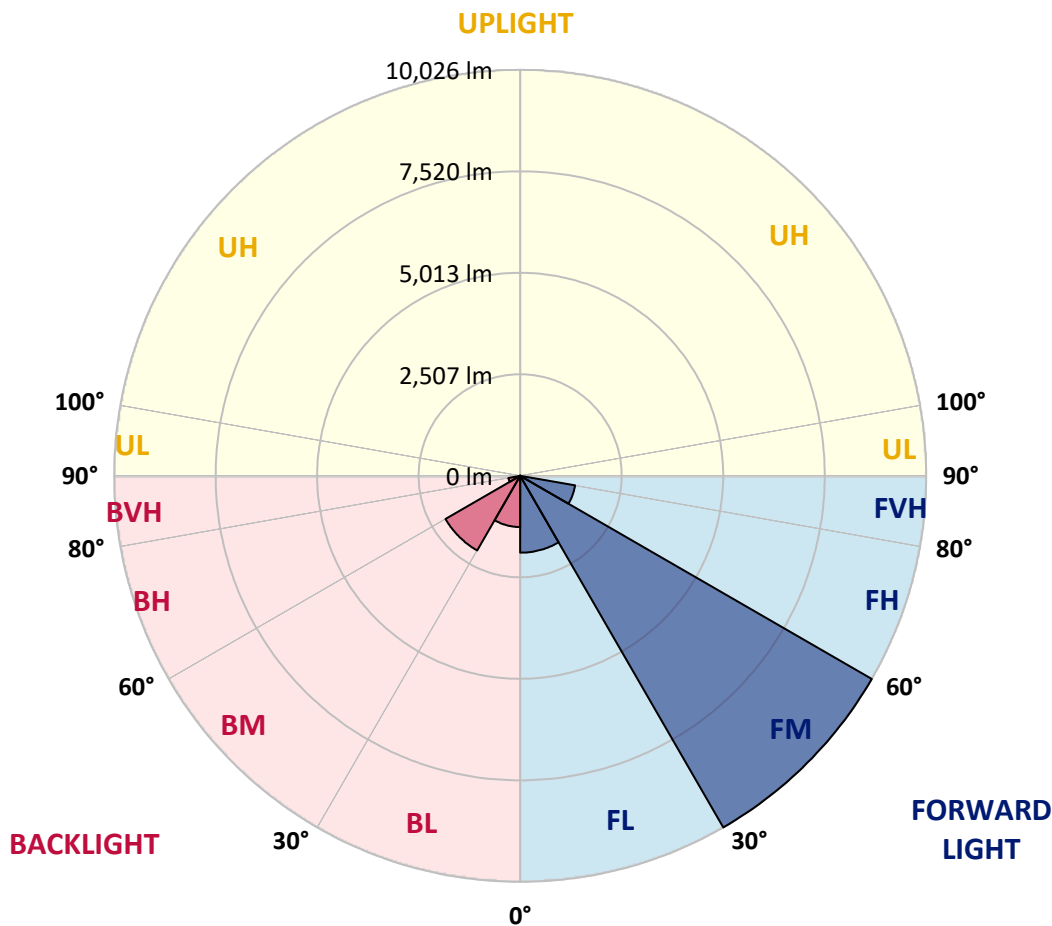


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.8	11.2			
FM (30°-60°)	10026.5	58.9			
FH (60°-80°)	1377.7	8.1			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1264.9	7.4	B3/2500		
BM (30°-60°)	2128.7	12.5	B2/2500		
BH (60°-80°)	294.1	1.7	B1/500		G1/500
BVH (80°-90°)	13.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3
2.5°	3309.1	3293.6	3293.6	3268.8	3296.7	3284.3	3293.6	3262.6	3293.6	3247.2	3284.3
5°	3324.6	3327.7	3315.3	3330.8	3330.8	3349.4	3318.4	3346.3	3361.8	3327.7	3312.2
7.5°	3405.2	3411.4	3408.3	3395.9	3420.7	3417.6	3414.5	3392.8	3399.0	3386.6	3368.0
10°	3563.2	3560.1	3575.6	3544.6	3526.0	3547.7	3553.9	3519.8	3495.0	3485.7	3426.9
12.5°	3792.5	3755.3	3733.6	3702.6	3711.9	3680.9	3736.7	3677.8	3665.4	3609.7	3550.8
15°	3978.4	3972.2	3975.3	3925.7	3869.9	3882.3	3882.3	3851.4	3832.8	3764.6	3680.9
17.5°	4359.5	4229.4	4257.2	4195.3	4148.8	4145.7	4117.8	4124.0	4074.4	3931.9	3804.9
20°	4656.9	4601.2	4557.8	4452.4	4381.2	4402.9	4390.5	4359.5	4344.0	4158.1	3978.4
22.5°	4923.4	4942.0	4870.7	4842.8	4743.7	4753.0	4777.8	4749.9	4632.2	4440.1	4173.6
25°	5298.3	5276.6	5180.6	5146.5	5053.5	5087.6	5183.7	5162.0	5087.6	4740.6	4325.4
27.5°	5741.4	5667.0	5685.6	5530.7	5440.8	5536.9	5651.5	5760.0	5549.3	5093.8	4505.1
30°	6054.3	5976.9	5970.7	5964.5	5942.8	6054.3	6187.6	6286.7	6116.3	5447.0	4802.6
32.5°	6209.3	6227.8	6280.5	6261.9	6450.9	6680.2	6819.6	6962.2	6748.4	6023.4	5196.1
35°	6621.3	6503.6	6621.3	6633.7	6828.9	7315.4	7492.0	7832.8	7780.2	6838.2	5676.3
37.5°	6863.0	6853.7	6869.2	6987.0	7176.0	7777.1	8028.0	8291.4	8192.3	7327.8	6274.3
40°	7262.7	7287.5	7284.4	7374.3	7581.9	8124.1	8226.3	8440.1	8449.4	8006.3	7154.3
42.5°	7904.1	7804.9	7739.9	7832.8	8124.1	8424.6	8629.1	8585.8	8892.5	8830.5	8285.2
45°	8480.4	8539.3	8443.2	8598.1	8703.5	8864.6	8858.4	8951.4	9341.8	9636.1	9137.3
47.5°	9019.5	9056.7	9103.2	9208.5	9437.8	9462.6	9409.9	9369.7	9908.8	10212.4	9797.2
50°	9341.8	9375.9	9592.7	9781.7	10209.3	10265.1	10296.1	10193.8	10559.5	10593.5	10420.0
52.5°	9255.0	9292.2	9595.8	10218.6	10900.3	11411.5	11318.6	11145.1	11123.4	11256.6	10996.3
55°	8486.6	8452.5	8870.8	9840.6	11117.2	12344.2	12356.5	12173.7	11823.6	11733.8	10909.6
56°	7832.8	7699.6	8232.5	9403.7	10838.3	12263.6	12403.0	12207.8	11879.4	11476.6	10373.5
57.5°	6416.9	6543.9	7073.7	8043.5	9874.7	11684.2	11764.7	11718.3	11470.4	10794.9	9128.0
60°	3538.4	3761.5	4229.4	5416.1	7030.3	8966.9	9031.9	9409.9	9456.4	8266.6	6280.5
62.5°	1502.7	1478.0	1964.4	2838.2	4003.2	5413.0	5533.8	5921.1	5992.4	4765.4	3151.1
65°	610.4	644.5	889.2	1428.4	2116.2	2466.4	2636.8	2763.8	2999.3	1967.5	1161.9
67.5°	402.8	399.7	523.6	814.9	1140.2	1099.9	1099.9	1161.9	1075.2	802.5	501.9
70°	288.2	297.4	374.9	563.9	709.5	526.7	505.0	483.4	548.4	529.8	405.9
72.5°	189.0	201.4	251.0	337.7	368.7	288.2	288.2	347.0	452.4	427.6	331.5
75°	123.9	127.0	154.9	195.2	182.8	148.7	164.2	232.4	328.4	316.0	235.5
77.5°	83.7	86.8	105.3	127.0	102.2	83.7	89.9	117.7	161.1	161.1	123.9
80°	31.0	34.1	43.4	40.3	46.5	58.9	65.1	80.6	96.1	96.1	83.7
82.5°	0.0	3.1	9.3	21.7	34.1	46.5	52.7	62.0	71.3	80.6	77.5
85°	0.0	3.1	9.3	15.5	24.8	27.9	31.0	21.7	18.6	18.6	15.5
87.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.2	3.1	3.1
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°	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3
2.5°	3250.3	3247.2	3247.2	3237.9	3256.5	3247.2	3253.4	3250.3	3210.0	3241.0	3219.3
5°	3284.3	3306.0	3271.9	3265.7	3241.0	3250.3	3250.3	3219.3	3247.2	3244.1	3237.9
7.5°	3371.1	3333.9	3296.7	3259.5	3253.4	3244.1	3210.0	3197.6	3219.3	3194.5	3231.7
10°	3408.3	3414.5	3358.7	3309.1	3262.6	3197.6	3151.1	3123.2	3089.1	3126.3	3148.0
12.5°	3578.7	3516.7	3420.7	3343.2	3185.2	3120.1	3073.6	3061.3	3120.1	3132.5	3110.8
15°	3637.6	3628.3	3504.3	3330.8	3166.6	3089.1	3098.4	3073.6	3079.8	3048.9	3055.1
17.5°	3758.4	3653.1	3507.4	3290.5	3163.5	3144.9	3089.1	2990.0	2934.2	2909.4	2931.1
20°	3891.6	3789.4	3578.7	3306.0	3191.4	3141.8	2959.0	2838.2	2723.5	2661.6	2664.7
22.5°	4009.4	3882.3	3547.7	3312.2	3216.2	3011.7	2791.7	2553.1	2410.6	2314.5	2317.6
25°	4151.9	3972.2	3560.1	3324.6	3151.1	2804.1	2488.0	2255.7	2085.2	2020.2	2041.9
27.5°	4232.5	4028.0	3628.3	3352.5	2980.7	2509.7	2168.9	1952.0	1852.9	1821.9	1818.8
30°	4474.1	4151.9	3711.9	3296.7	2695.6	2193.7	1877.6	1744.4	1648.4	1620.5	1626.7
32.5°	4833.6	4378.1	3820.4	3151.1	2404.4	1911.7	1688.6	1589.5	1499.6	1447.0	1440.8
35°	5134.1	4765.4	3935.0	2924.9	2066.7	1694.8	1555.4	1431.5	1295.1	1236.3	1220.8
37.5°	5707.3	5202.3	3910.2	2584.1	1744.4	1533.7	1412.9	1261.1	1143.3	1062.8	1053.5
40°	6469.5	5713.5	3789.4	2168.9	1505.8	1391.2	1261.1	1115.4	969.8	901.6	895.4
42.5°	7396.0	6339.4	3569.4	1747.5	1267.3	1248.7	1130.9	963.6	833.5	783.9	787.0
45°	8148.9	6875.4	3346.3	1403.6	1090.6	1109.2	1007.0	849.0	759.1	718.8	718.8
47.5°	8818.1	7237.9	3104.6	1158.8	926.4	969.8	880.0	787.0	709.5	678.6	672.4
50°	9462.6	7606.6	2863.0	938.8	790.1	833.5	824.2	749.8	687.9	650.7	653.8
52.5°	9865.4	7665.5	2556.2	768.4	691.0	740.5	771.5	703.3	635.2	613.5	607.3
55°	9372.8	6906.4	1983.0	632.1	585.6	650.7	709.5	632.1	579.4	542.2	539.1
56°	8709.7	6175.2	1657.7	582.5	554.6	625.9	687.9	604.2	545.3	523.6	508.1
57.5°	7374.3	5053.5	1223.9	517.4	514.3	582.5	653.8	576.3	508.1	489.6	489.6
60°	4598.1	2844.4	740.5	433.8	446.2	517.4	588.7	514.3	452.4	452.4	461.7
62.5°	2094.5	1183.6	449.3	368.7	384.2	446.2	523.6	464.8	430.7	464.8	471.0
65°	712.6	511.2	325.3	294.4	303.6	368.7	449.3	471.0	467.9	489.6	501.9
67.5°	399.7	328.4	272.7	244.8	238.6	272.7	368.7	471.0	452.4	443.1	449.3
70°	337.7	278.9	241.7	216.9	207.6	220.0	285.1	356.3	319.1	309.8	303.6
72.5°	272.7	232.4	210.7	195.2	167.3	142.5	130.1	136.3	151.8	161.1	176.6
75°	192.1	176.6	176.6	158.0	120.8	89.9	71.3	58.9	40.3	27.9	31.0
77.5°	108.4	108.4	111.5	96.1	77.5	58.9	43.4	31.0	15.5	6.2	3.1
80°	74.4	80.6	86.8	77.5	65.1	52.7	37.2	21.7	9.3	0.0	0.0
82.5°	74.4	83.7	89.9	77.5	65.1	49.6	37.2	21.7	9.3	3.1	0.0
85°	15.5	18.6	21.7	24.8	37.2	37.2	27.9	18.6	9.3	3.1	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	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)