

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: P652463

Luminaire Tested: **GALN-SA6B-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652463
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-SA6B-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA 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: 22719.6 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

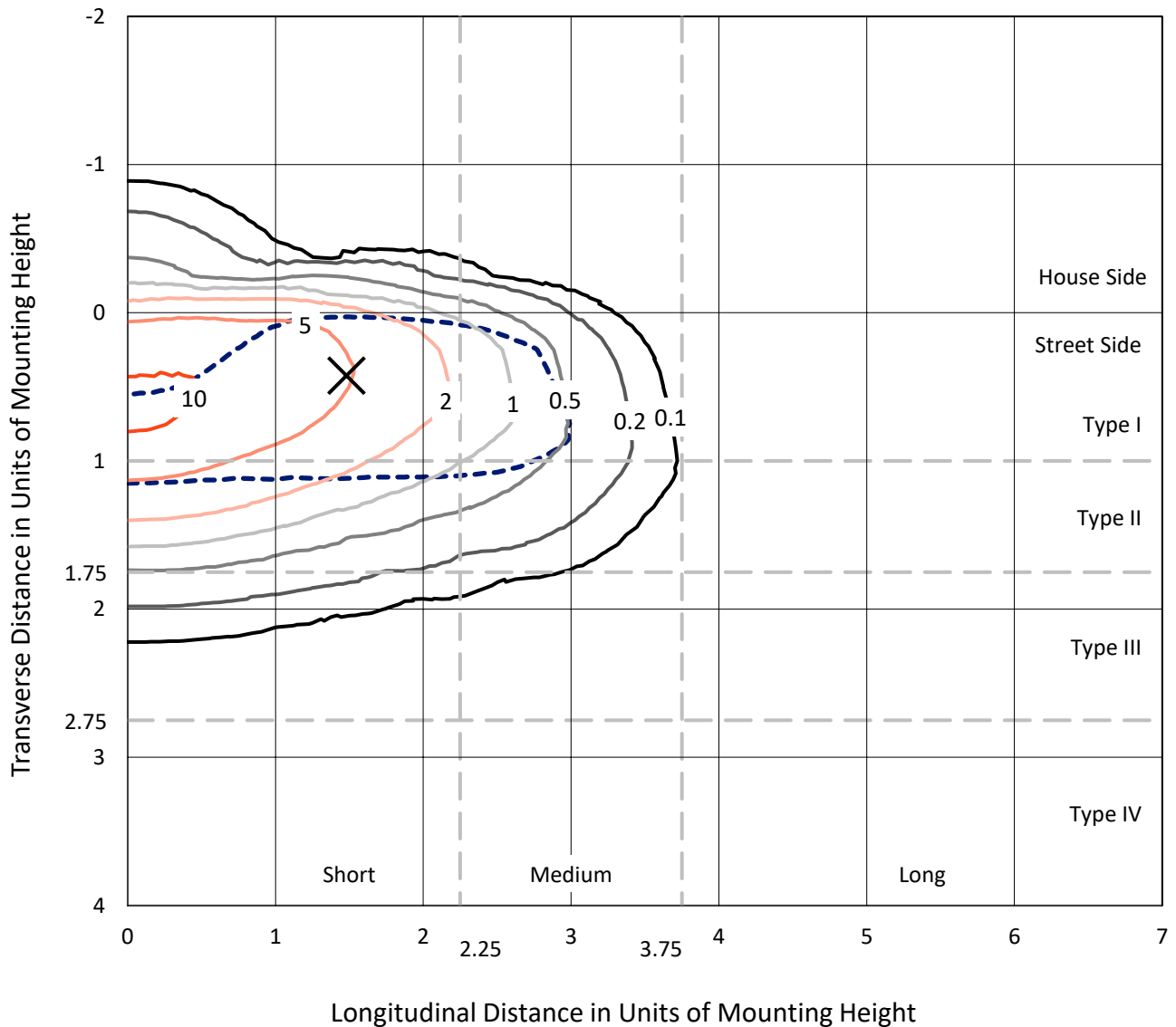
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

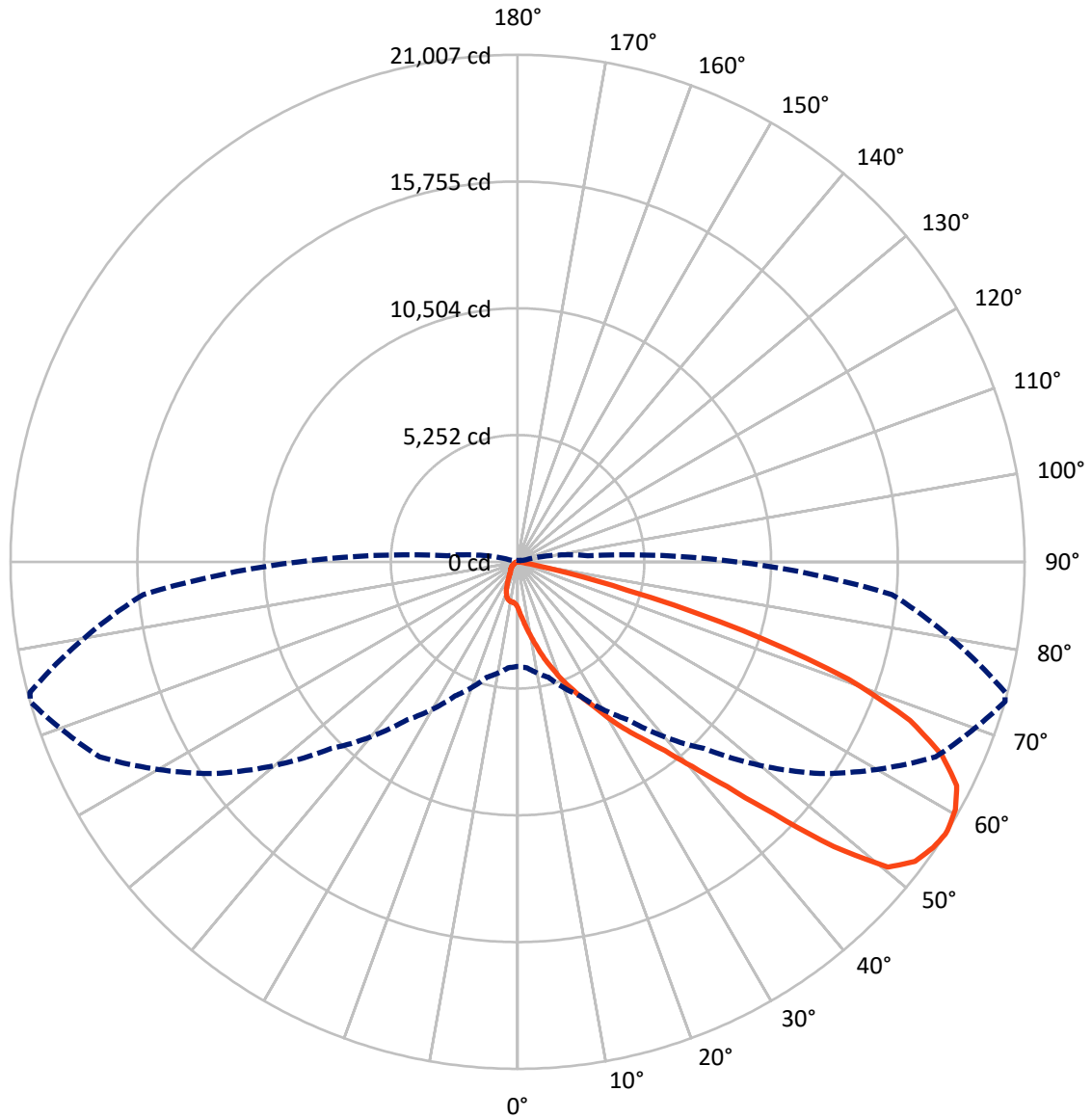
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	1310.4	0.0	1310.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	21409.2	0.0	21409.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	22719.6	0.0	22719.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	1.0
10°-20°	905.2	4.0
20°-30°	1937.0	8.5
30°-40°	3560.2	15.7
40°-50°	5457.8	24.0
50°-60°	5773.7	25.4
60°-70°	3770.3	16.6
70°-80°	1030.2	4.5
80°-90°	55.5	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°	22719.6	100.0
0°-180°	22719.6	100.0

Coefficient of Utilization

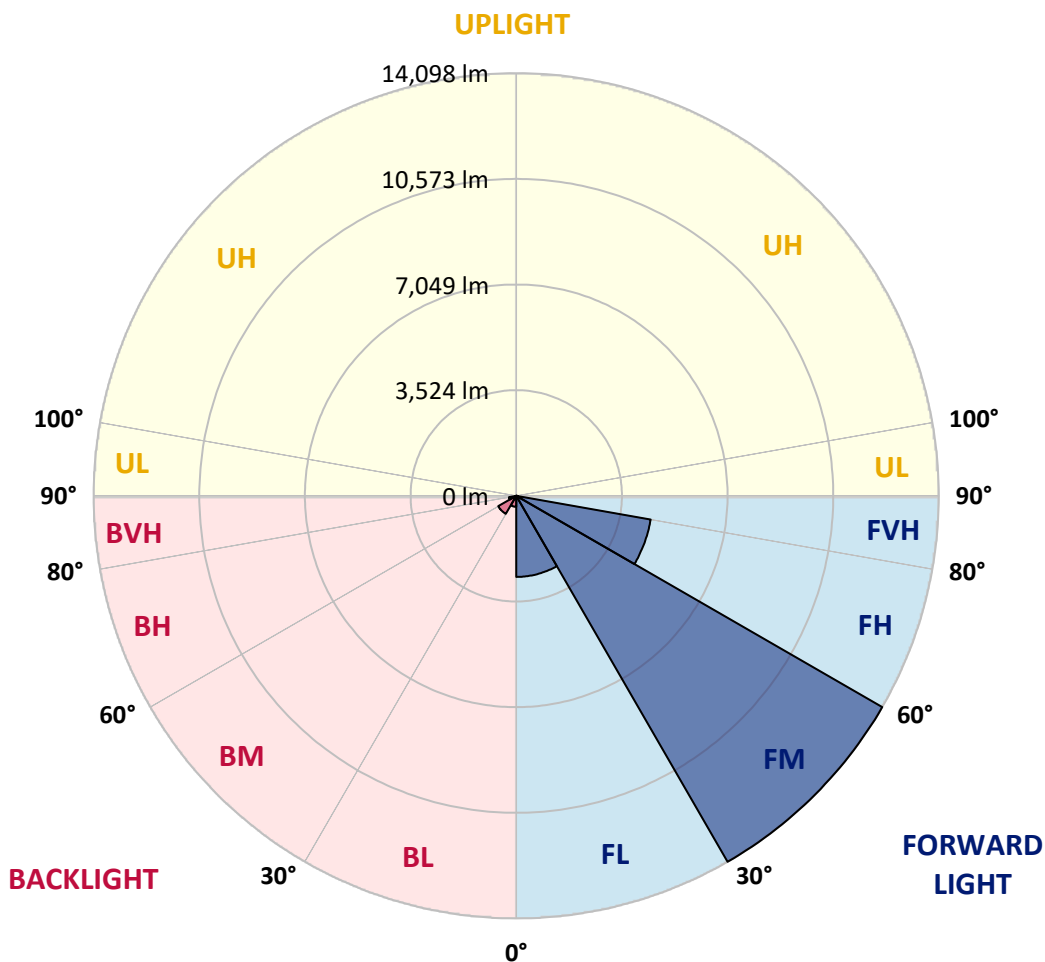


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2705.9	11.9			
FM (30°-60°)	14097.9	62.1			
FH (60°-80°)	4554.5	20.0			G2/5000
FVH (80°-90°)	50.9	0.2			G1/100
BL (0°-30°)	366.0	1.6	B1/500		
BM (30°-60°)	693.8	3.1	B1/1000		
BH (60°-80°)	246.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	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°	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8
2.5°	2784.3	2759.2	2709.0	2691.8	2618.0	2503.5	2403.2	2268.3	2161.5	2150.6	2021.9
5°	3728.6	3672.1	3648.6	3535.6	3358.4	3192.2	2906.7	2690.2	2440.8	2421.9	2163.1
7.5°	4638.5	4560.0	4536.4	4429.8	4222.7	3960.8	3590.6	3196.8	2801.5	2765.5	2352.9
10°	5297.2	5308.2	5265.8	5195.3	5027.4	4760.7	4304.3	3766.3	3203.1	3157.6	2566.2
12.5°	5769.4	5767.8	5775.7	5774.1	5684.7	5482.3	5002.4	4382.7	3645.5	3556.1	2811.0
15°	6076.8	6081.5	6105.1	6186.6	6196.1	6070.6	5670.5	4972.5	4158.4	4047.1	3076.0
17.5°	6387.4	6420.4	6458.0	6534.9	6603.9	6553.7	6271.3	5587.4	4622.7	4539.5	3360.0
20°	6900.4	6945.8	6923.9	6971.0	7007.0	7011.8	6793.7	6155.3	5185.9	5046.3	3684.7
22.5°	7720.7	7719.2	7662.7	7578.0	7507.4	7504.3	7306.6	6738.8	5697.3	5562.4	4011.0
25°	8757.6	8762.3	8652.5	8410.9	8235.2	8020.4	7792.9	7250.2	6244.7	6078.4	4354.5
27.5°	9946.6	9916.8	9750.6	9418.0	9069.8	8702.8	8374.8	7844.7	6825.1	6687.0	4748.2
30°	11014.8	11003.9	10809.4	10403.1	9945.1	9576.5	9101.1	8589.8	7576.5	7407.0	5189.0
32.5°	12009.4	12025.0	11755.2	11334.8	10892.5	10467.4	9965.4	9302.0	8313.7	8073.7	5669.0
35°	12785.8	12801.5	12522.3	12172.5	11717.6	11364.7	10886.2	10061.1	9041.5	8839.2	6221.1
37.5°	13199.9	13220.4	13058.8	12795.2	12511.3	12334.1	11888.5	11038.4	9926.2	9803.9	6873.7
40°	13278.4	13301.9	13231.3	13160.7	13145.1	13272.1	13141.9	12189.8	11152.9	10961.5	7846.3
42.5°	13043.1	13074.4	13105.8	13262.7	13582.7	14048.6	14501.9	13752.1	12732.5	12475.2	9035.3
45°	12425.0	12421.9	12545.9	12952.1	13668.9	14663.5	15923.1	15708.2	14884.7	14578.7	10715.3
47.5°	11367.8	11352.2	11620.3	12199.2	13316.1	14776.5	17082.3	18083.1	17631.3	17349.0	12520.7
50°	9756.9	9833.7	10255.7	11063.5	12439.1	14434.4	17439.9	19640.7	19885.4	19585.8	13979.5
52.5°	7869.7	7866.6	8528.6	9625.1	11140.4	13681.6	17190.5	19923.0	20618.0	20389.0	14698.0
55°	5824.3	5865.0	6553.7	7659.6	9454.1	12307.4	16376.4	19632.9	20897.2	20735.6	15171.7
57°	4332.5	4404.7	4956.9	6127.0	7985.9	10947.4	15292.5	19113.7	21007.0	20919.1	15565.4
57.5°	4043.9	4047.1	4585.0	5648.6	7556.0	10425.0	14981.9	18897.2	21003.8	20955.2	15629.7
60°	2489.4	2567.8	2939.6	3818.1	5530.9	8136.4	12900.4	17653.3	20840.7	20911.3	15904.2
62.5°	1490.2	1523.1	1764.7	2301.1	3565.5	5938.8	10556.8	16061.1	20415.6	20630.5	15885.4
65°	958.4	966.3	1076.1	1392.9	2229.0	4014.1	8134.9	13957.6	19316.0	19711.3	15264.2
67.5°	740.4	752.9	796.8	914.5	1292.5	2500.4	5753.7	11712.9	17537.2	18047.0	13758.3
70°	657.2	663.5	679.2	716.9	854.9	1411.8	3579.6	9149.7	14542.7	14687.0	10767.0
72.5°	536.5	553.7	602.3	614.9	677.7	881.5	1992.2	6141.2	9770.9	9807.0	6023.5
75°	415.7	418.8	491.0	527.1	571.0	607.0	889.4	3096.5	4693.3	4442.3	2321.6
77.5°	310.6	324.7	357.7	403.2	465.9	434.5	398.5	1167.1	1457.3	1430.5	674.5
80°	199.2	207.1	249.4	302.8	362.4	283.9	224.3	342.0	320.0	329.4	161.6
82.5°	100.4	101.9	160.0	246.2	230.6	142.7	141.2	139.6	119.3	117.7	75.3
85°	11.0	23.5	103.5	141.2	103.5	47.1	65.9	64.3	62.7	64.3	43.9
87.5°	1.6	1.6	17.2	20.4	14.1	15.7	18.8	20.4	25.1	23.5	18.8
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°	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8	1902.8
2.5°	1959.2	1896.5	1780.4	1669.0	1585.9	1532.6	1463.5	1438.4	1402.4	1397.7	1380.4
5°	2043.9	1924.7	1722.4	1562.3	1433.7	1336.4	1251.7	1181.2	1124.7	1112.1	1118.4
7.5°	2164.7	1987.5	1705.1	1487.1	1308.3	1142.0	1007.0	923.9	864.3	842.3	845.5
10°	2301.1	2070.5	1701.9	1407.1	1134.1	930.2	782.7	709.0	674.5	662.0	647.8
12.5°	2462.7	2166.2	1694.1	1283.1	942.8	741.9	636.9	592.9	560.0	550.6	550.6
15°	2644.7	2268.3	1656.4	1129.4	765.5	613.3	542.8	508.2	497.3	487.9	487.9
17.5°	2834.5	2368.6	1578.1	939.6	635.3	525.5	481.6	461.2	445.5	434.5	434.5
20°	3051.0	2467.4	1452.6	771.8	536.5	469.0	434.5	411.0	398.5	389.0	385.9
22.5°	3256.4	2547.5	1292.5	633.7	467.4	421.9	390.6	365.5	353.0	348.3	348.3
25°	3469.8	2596.1	1099.6	523.9	426.6	382.7	348.3	327.8	316.9	313.7	312.2
27.5°	3676.9	2624.3	930.2	458.0	389.0	346.7	313.7	298.1	287.0	283.9	285.5
30°	3927.8	2629.1	765.5	411.0	356.1	312.2	282.3	268.2	262.0	258.9	257.3
32.5°	4182.0	2622.7	643.1	382.7	324.7	282.3	257.3	246.2	241.5	236.8	236.8
35°	4467.5	2589.8	547.5	354.5	294.9	257.3	235.3	225.9	219.6	214.9	213.4
37.5°	4822.0	2572.5	492.6	323.1	268.2	233.7	213.4	203.9	199.2	192.9	191.4
40°	5380.4	2649.4	475.3	294.9	241.5	211.8	192.9	182.0	175.7	169.4	167.9
42.5°	6076.8	2784.3	447.1	266.7	218.1	191.4	172.6	160.0	149.0	141.2	138.0
45°	6978.8	2961.6	403.2	236.8	197.6	169.4	152.1	136.5	122.4	116.1	114.5
47.5°	7924.7	3132.6	363.9	213.4	175.7	150.6	131.8	114.5	101.9	97.2	95.7
50°	8505.0	3167.0	338.8	186.7	153.7	130.2	111.3	95.7	87.9	83.2	83.2
52.5°	8770.2	3112.1	304.3	163.2	133.3	114.5	95.7	83.2	78.5	75.3	73.8
55°	8955.2	3027.4	258.9	141.2	114.5	97.2	84.7	75.3	69.0	65.9	64.3
57°	9063.5	2913.0	224.3	123.9	98.8	84.7	75.3	67.4	61.1	54.9	54.9
57.5°	9068.2	2869.0	214.9	122.4	94.1	81.6	73.8	65.9	58.0	51.8	50.2
60°	8928.6	2567.8	172.6	103.5	75.3	69.0	61.1	51.8	40.8	34.5	33.0
62.5°	8480.0	2185.1	142.7	87.9	61.1	53.3	43.9	39.2	28.3	20.4	20.4
65°	7800.8	1772.6	122.4	70.6	50.2	39.2	29.8	28.3	17.2	9.4	7.8
67.5°	6818.8	1380.4	103.5	58.0	42.4	28.3	20.4	18.8	9.4	3.1	0.0
70°	5195.3	941.2	86.3	47.1	31.4	20.4	14.1	11.0	6.3	1.6	0.0
72.5°	2994.5	517.6	72.2	36.1	23.5	15.7	11.0	6.3	6.3	0.0	0.0
75°	1069.8	222.8	54.9	26.7	18.8	12.5	7.8	3.1	4.7	1.6	0.0
77.5°	340.4	119.3	36.1	20.4	15.7	9.4	6.3	3.1	3.1	1.6	0.0
80°	100.4	62.7	22.0	17.2	11.0	7.8	4.7	1.6	3.1	1.6	0.0
82.5°	54.9	31.4	17.2	12.5	11.0	6.3	4.7	1.6	1.6	1.6	0.0
85°	28.3	18.8	14.1	12.5	11.0	6.3	4.7	1.6	0.0	1.6	1.6
87.5°	15.7	14.1	14.1	12.5	11.0	7.8	4.7	1.6	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)