

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: P647383

Luminaire Tested: **GALN-SA4D-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14012.6 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

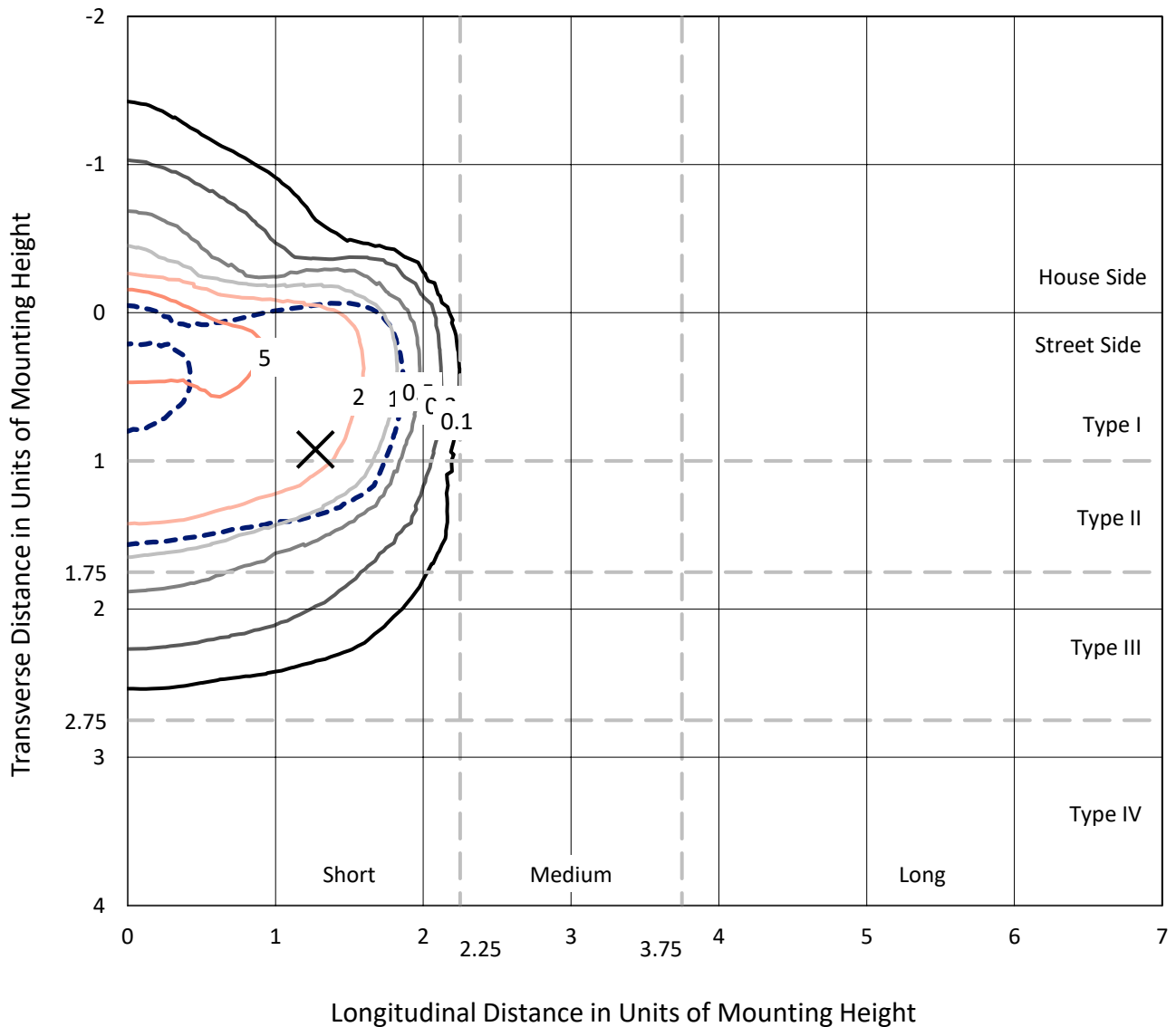
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

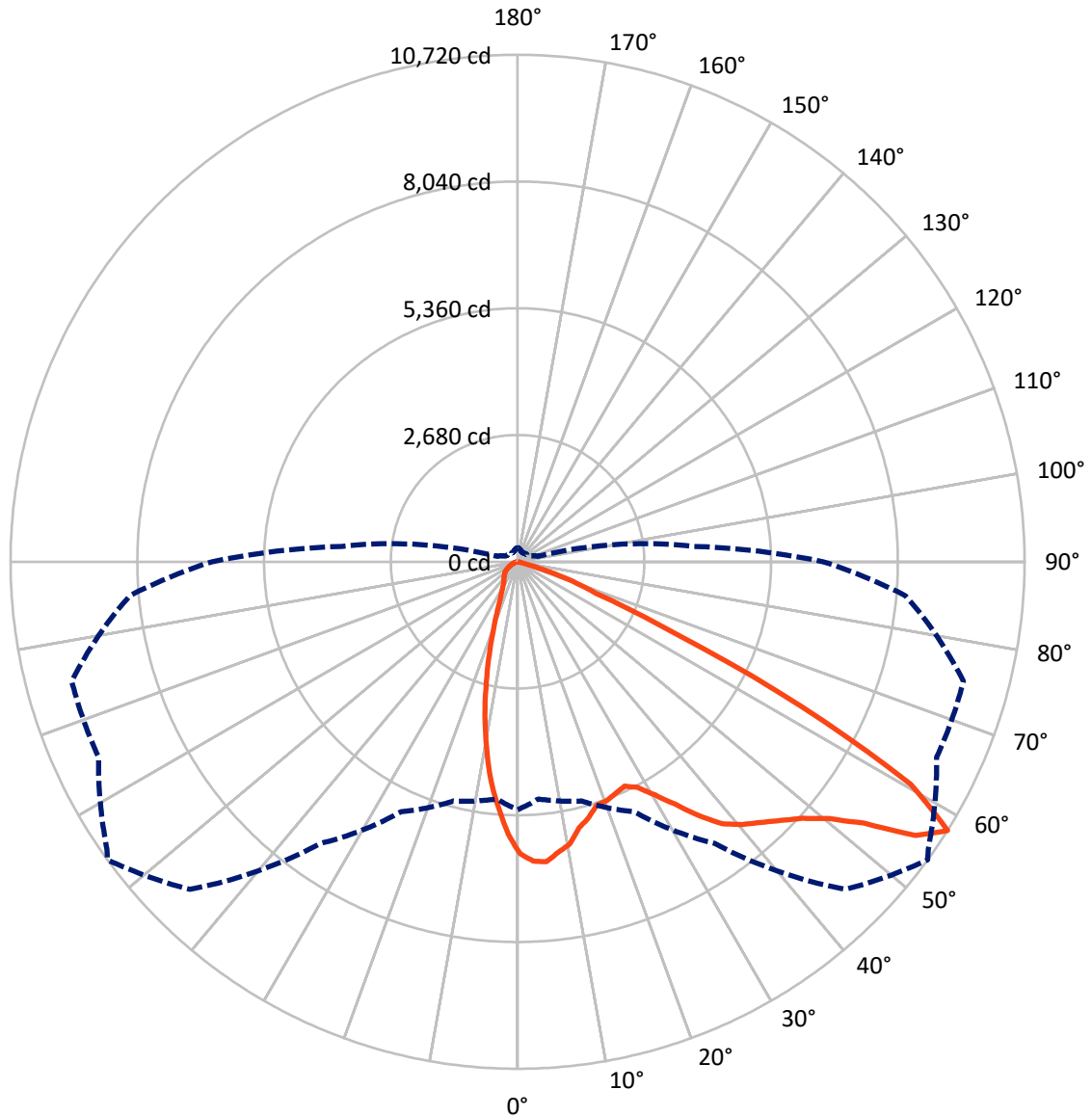
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1980.2	0.0	1980.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12032.4	0.0	12032.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	14012.6	0.0	14012.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.5	3.7
10°-20°	1102.8	7.9
20°-30°	1461.4	10.4
30°-40°	2123.9	15.2
40°-50°	3149.5	22.5
50°-60°	3938.3	28.1
60°-70°	1553.5	11.1
70°-80°	154.7	1.1
80°-90°	12.0	0.1
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°	14012.6	100.0
0°-180°	14012.6	100.0

Coefficient of Utilization

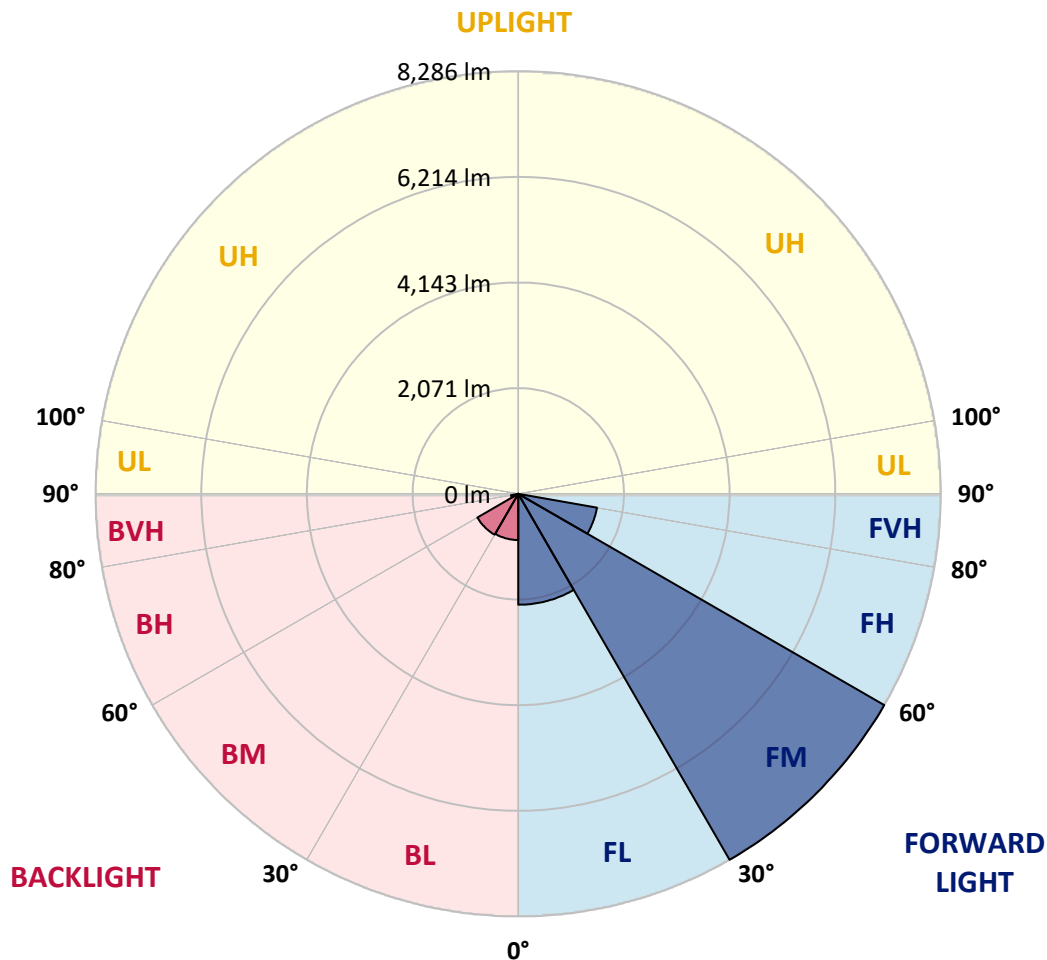


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.2	15.5			
FM (30°-60°)	8285.6	59.1			
FH (60°-80°)	1566.1	11.2			G1/1800
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	905.7	6.5	B2/1000		
BM (30°-60°)	926.0	6.6	B1/1000		
BH (60°-80°)	142.0	1.0	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7
2.5°	6532.3	6464.5	6469.8	6446.3	6415.0	6438.5	6336.9	6360.3	6357.7	6219.6	6128.5
5°	6368.1	6441.1	6365.6	6428.0	6368.1	6433.3	6370.7	6323.8	6248.3	6146.7	5977.3
7.5°	6089.3	6019.0	6039.8	6118.0	6131.0	6276.9	6198.8	6258.7	6227.4	6026.8	5794.9
10°	5529.2	5513.5	5617.7	5721.9	5849.6	6006.0	6065.9	6032.0	6008.6	5933.0	5623.0
12.5°	5099.2	5143.5	5140.9	5312.9	5529.2	5617.7	5774.1	5768.8	5899.1	5758.4	5461.4
15°	4690.1	4713.6	4823.0	4929.8	5169.5	5422.3	5615.1	5641.2	5797.5	5698.5	5336.3
17.5°	4440.0	4406.1	4492.1	4619.8	4864.7	5195.6	5409.3	5471.8	5685.4	5664.6	5193.0
20°	4192.4	4192.4	4262.8	4413.9	4638.0	5010.7	5391.0	5372.8	5685.4	5625.5	5039.3
22.5°	4109.1	4150.8	4169.0	4283.6	4549.4	4869.9	5312.9	5346.7	5729.8	5607.3	4971.5
25°	4223.7	4169.0	4174.2	4265.4	4515.6	4802.1	5255.6	5331.1	5810.6	5698.5	4916.8
27.5°	4242.0	4296.7	4312.3	4374.9	4541.6	4823.0	5398.9	5552.6	6011.2	5912.2	4932.4
30°	4400.9	4455.6	4453.0	4559.9	4674.5	4992.4	5719.3	5750.6	6425.5	6180.5	5028.8
32.5°	4593.7	4651.0	4669.3	4794.4	4885.5	5302.5	6110.2	6190.9	6824.2	6602.6	5281.6
35°	4833.5	4812.6	4895.9	5021.1	5216.4	5755.8	6587.0	6722.5	7254.0	7149.8	5542.2
37.5°	5133.1	5107.0	5187.8	5391.0	5656.8	6292.6	7027.3	7116.0	7566.8	7657.9	6024.2
40°	5344.1	5354.5	5599.5	5873.0	6154.5	6803.3	7306.2	7392.1	7785.6	8132.2	6389.0
42.5°	5695.9	5761.0	6055.5	6389.0	6683.5	7186.3	7532.9	7616.2	7887.2	8512.5	6881.5
45°	6206.6	6177.9	6503.7	6876.2	7202.0	7585.0	7801.3	7772.6	7947.1	8890.4	7191.5
47.5°	6863.2	6868.4	7084.7	7402.6	7741.3	7931.6	8100.9	7999.3	8072.3	9289.0	7605.8
50°	7311.4	7350.5	7525.0	7850.7	8020.1	8311.9	8528.2	8465.6	8442.2	9528.8	7866.4
52.5°	7426.1	7543.3	7637.1	8043.6	8439.6	8900.8	9177.0	9309.9	8893.0	9609.5	8197.3
55°	6561.0	6665.2	6996.1	7553.7	8598.6	9833.6	10214.1	10216.7	9481.9	9969.2	8429.2
57.5°	5245.2	5034.1	5237.3	5828.8	7269.7	9794.5	10719.5	10597.0	9776.3	9758.1	8228.5
60°	3627.0	3574.9	3587.9	3822.4	5031.5	7790.8	9552.2	9711.2	9002.5	8457.9	6514.1
62.5°	2874.0	2829.7	2772.4	2746.3	3124.2	4854.3	6738.1	6962.2	6295.2	5484.8	3861.5
65°	2251.3	2225.2	2233.0	2337.3	2334.7	2754.1	3684.3	3593.2	2876.6	2126.2	1214.2
67.5°	1519.1	1558.2	1589.4	1904.7	2066.3	1917.7	1779.7	1727.5	935.5	393.5	268.4
70°	854.6	859.9	893.7	1190.8	1568.6	1487.8	1227.3	1227.3	466.4	143.3	153.7
72.5°	466.4	450.8	419.5	513.3	698.3	708.7	547.2	476.8	138.1	93.8	86.0
75°	226.7	224.1	192.9	158.9	151.1	125.0	96.4	88.6	62.6	59.9	52.1
77.5°	46.9	44.3	23.4	23.4	26.1	28.7	36.5	36.5	44.3	44.3	36.5
80°	0.0	0.0	2.6	10.4	18.2	26.1	31.2	31.2	36.5	36.5	28.7
82.5°	0.0	0.0	2.6	7.8	15.7	23.4	28.7	31.2	36.5	39.1	31.2
85°	0.0	0.0	0.0	5.2	13.0	18.2	15.7	15.7	13.0	10.4	5.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7	6172.7
2.5°	6081.6	6076.3	5956.4	5888.7	5766.2	5659.4	5573.4	5510.9	5510.9	5471.8	5435.4
5°	5909.5	5865.3	5609.9	5445.8	5213.8	5041.9	4924.6	4833.5	4690.1	4729.2	4575.5
7.5°	5695.9	5583.9	5245.2	4995.0	4674.5	4429.6	4179.4	3957.9	3744.3	3647.8	3700.0
10°	5466.6	5271.2	4815.2	4419.2	4020.5	3572.3	3280.5	2926.1	2707.2	2694.2	2636.9
12.5°	5224.3	5002.8	4447.8	3900.6	3376.9	2837.5	2392.0	2061.0	1912.6	1748.4	1779.7
15°	5041.9	4713.6	4038.7	3379.5	2683.8	2139.2	1691.0	1435.7	1295.0	1255.9	1242.9
17.5°	4843.9	4492.1	3621.8	2824.5	2105.3	1539.9	1216.9	1094.4	1039.7	1039.7	1031.8
20°	4638.0	4242.0	3207.6	2308.6	1579.0	1149.1	974.5	935.5	932.8	930.2	930.2
22.5°	4502.5	3955.3	2832.3	1834.3	1190.8	919.8	846.8	831.2	841.6	872.9	872.9
25°	4359.2	3679.2	2418.0	1414.9	922.4	789.5	747.8	758.3	784.3	813.0	802.5
27.5°	4213.3	3499.4	2027.2	1110.0	755.6	690.5	674.9	698.3	726.9	753.0	745.2
30°	4179.4	3306.5	1657.1	841.6	648.8	601.9	612.3	633.1	661.8	672.3	682.7
32.5°	4231.6	3155.4	1357.6	690.5	565.4	552.4	552.4	562.8	581.1	604.5	596.7
35°	4380.0	3069.4	1073.5	599.3	518.5	505.5	502.9	513.3	523.7	531.6	523.7
37.5°	4606.8	3001.7	878.1	531.6	487.3	466.4	461.2	458.6	469.0	471.6	476.8
40°	4895.9	3038.2	745.2	489.8	456.0	432.5	416.9	416.9	416.9	424.7	427.4
42.5°	5208.7	3087.7	643.6	466.4	427.4	398.6	383.0	377.8	383.0	393.5	390.9
45°	5537.0	3184.1	578.5	429.9	401.3	364.8	344.0	338.7	351.7	372.6	370.0
47.5°	5844.4	3322.2	528.9	406.5	375.2	341.3	315.3	310.1	333.6	362.2	364.8
50°	6151.9	3561.9	510.7	388.2	357.0	317.9	294.4	289.2	315.3	351.7	359.6
52.5°	6506.3	3819.9	497.7	364.8	336.1	299.7	273.6	268.4	297.1	344.0	346.6
55°	6738.1	4038.7	487.3	323.1	297.1	271.0	250.2	247.5	278.8	320.5	330.9
57.5°	6467.2	3733.9	450.8	281.4	252.8	239.8	221.5	221.5	247.5	286.7	294.4
60°	4903.8	2457.1	320.5	226.7	213.7	205.9	198.0	198.0	218.8	247.5	250.2
62.5°	2871.4	1323.7	205.9	182.4	182.4	174.6	161.5	161.5	182.4	198.0	200.6
65°	852.1	424.7	166.8	156.4	153.7	140.7	127.7	125.0	140.7	148.5	146.0
67.5°	244.9	195.4	138.1	130.3	127.7	106.8	99.0	96.4	99.0	93.8	91.2
70°	146.0	132.9	106.8	109.5	96.4	78.1	70.3	67.7	62.6	54.7	49.5
72.5°	80.8	80.8	78.1	83.4	67.7	52.1	44.3	36.5	28.7	23.4	20.8
75°	49.5	52.1	54.7	57.3	44.3	33.9	28.7	18.2	10.4	5.2	5.2
77.5°	33.9	36.5	39.1	41.7	36.5	31.2	23.4	13.0	2.6	0.0	0.0
80°	26.1	28.7	33.9	36.5	39.1	41.7	31.2	13.0	2.6	0.0	0.0
82.5°	28.7	31.2	39.1	36.5	36.5	36.5	28.7	13.0	2.6	0.0	0.0
85°	5.2	7.8	13.0	13.0	18.2	23.4	18.2	5.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)