

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: P651339

Luminaire Tested: **GALN-SA4D-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15021.9 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

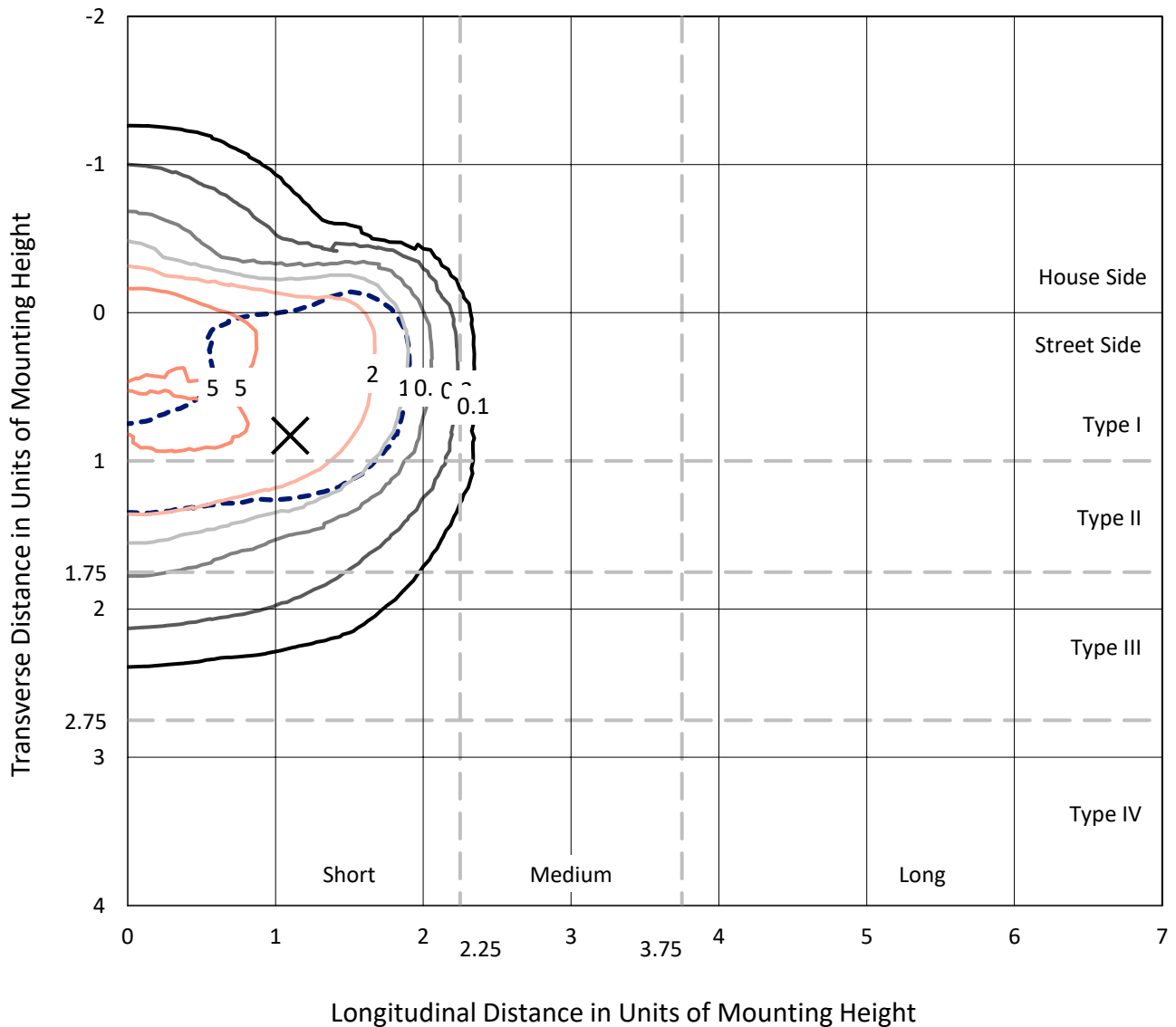
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

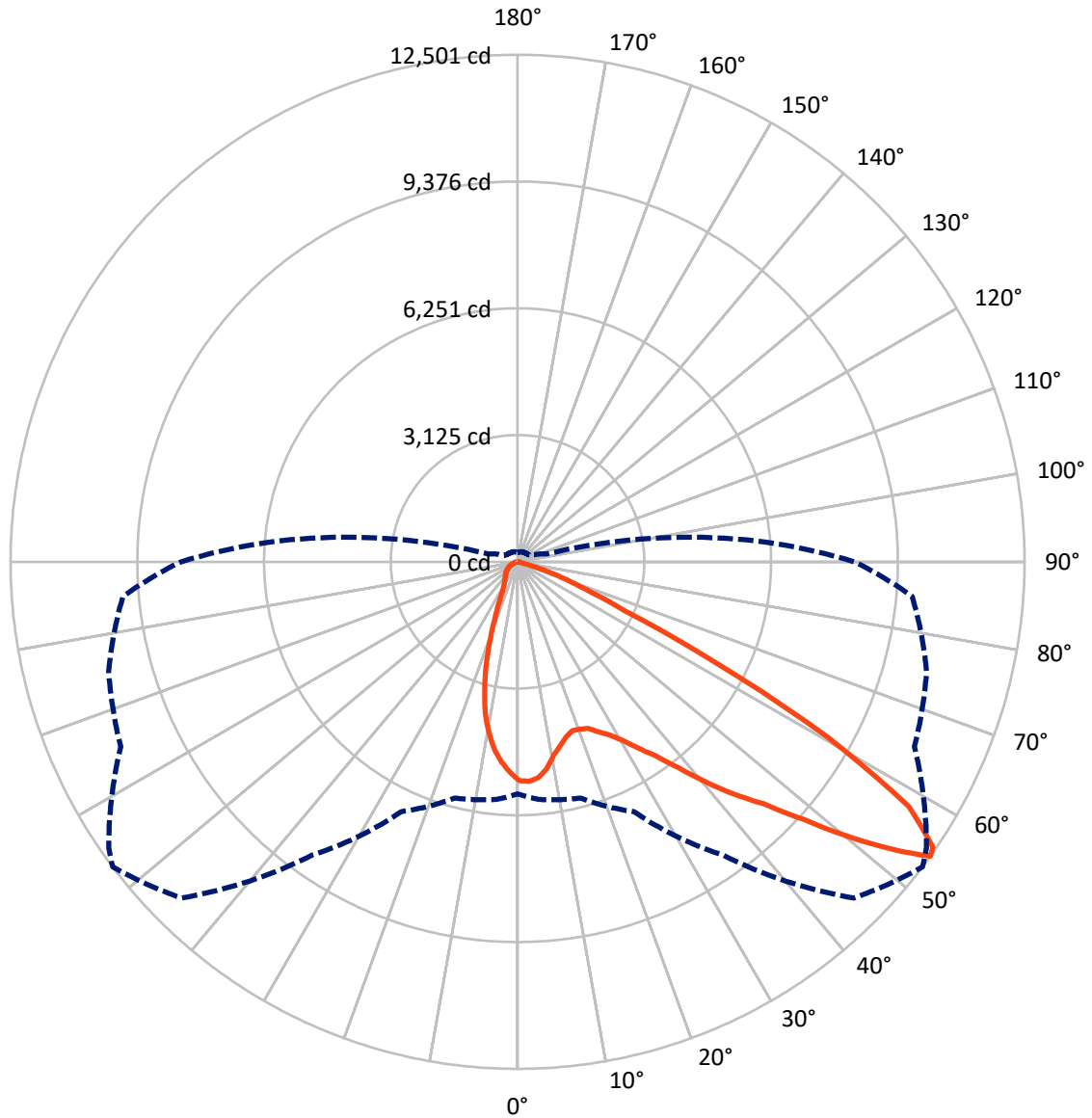
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2485.4	0.0	2485.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12536.5	0.0	12536.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	15021.9	0.0	15021.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.9	3.1
10°-20°	1061.4	7.1
20°-30°	1508.4	10.0
30°-40°	2327.9	15.5
40°-50°	3649.9	24.3
50°-60°	4239.9	28.2
60°-70°	1602.1	10.7
70°-80°	152.3	1.0
80°-90°	17.1	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°	15021.9	100.0
0°-180°	15021.9	100.0

Coefficient of Utilization

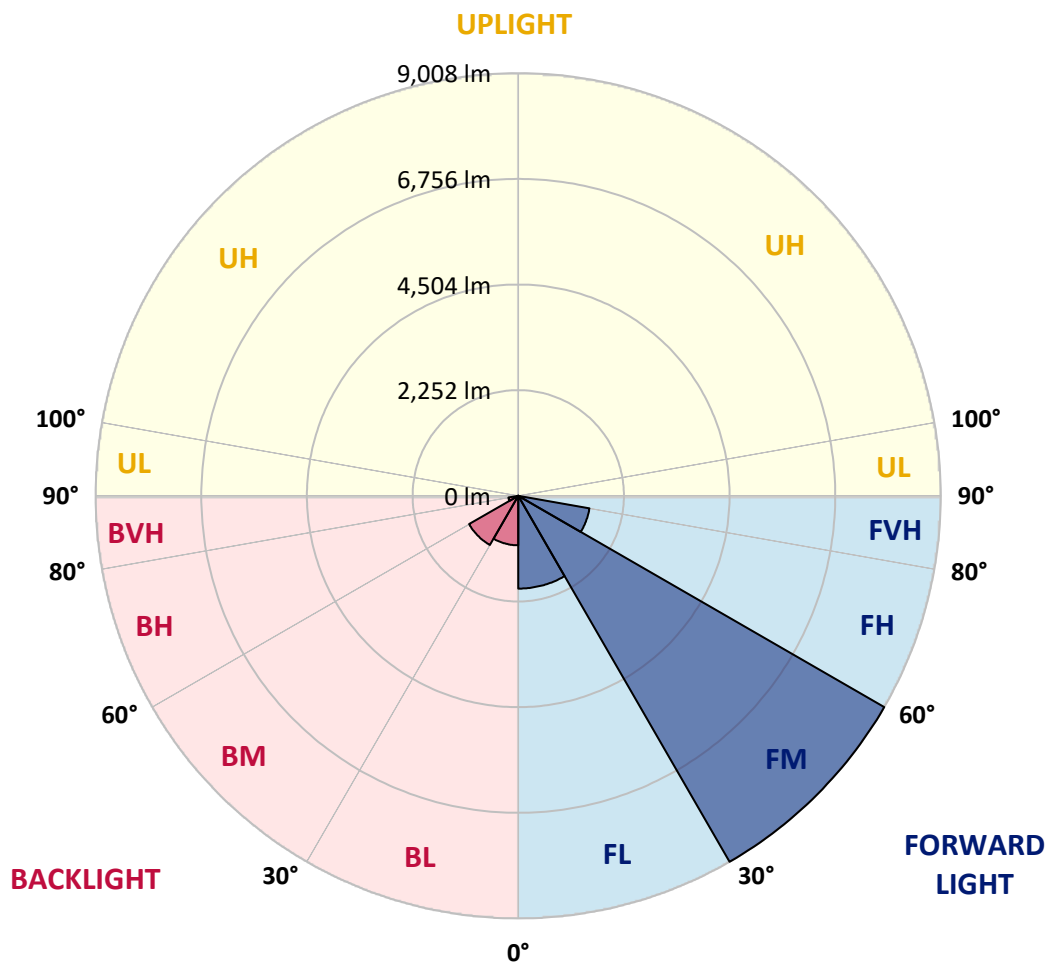


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1978.0	13.2			
FM (30°-60°)	9008.2	60.0			
FH (60°-80°)	1541.5	10.3			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	1054.7	7.0	B3/2500		
BM (30°-60°)	1209.5	8.1	B2/2500		
BH (60°-80°)	212.9	1.4	B1/500		G1/500
BVH (80°-90°)	8.3	0.1			G0/10
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°	53°	55°	65°	75°	85°
0°	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6
2.5°	5367.7	5320.1	5367.7	5373.2	5406.8	5437.6	5418.1	5462.8	5437.6	5409.6	5401.2
5°	4933.9	4998.2	5001.0	5101.8	5079.4	5264.1	5345.2	5322.9	5460.0	5451.6	5432.0
7.5°	4544.8	4519.7	4553.3	4670.8	4819.1	5031.8	5149.4	5146.6	5342.5	5482.4	5468.4
10°	4183.9	4181.0	4251.0	4343.3	4469.3	4693.2	4855.5	4936.7	5241.7	5454.4	5485.2
12.5°	3940.3	3929.2	4004.8	4080.3	4279.0	4452.5	4659.6	4698.8	5048.6	5356.4	5406.8
15°	3780.9	3806.0	3811.7	3957.2	4083.1	4312.6	4474.9	4556.0	4959.0	5278.1	5471.2
17.5°	3752.9	3786.4	3789.3	3909.6	4043.9	4237.0	4379.8	4488.9	4883.5	5317.3	5474.0
20°	3808.8	3789.3	3806.0	3881.6	4013.2	4197.9	4404.9	4441.3	4858.3	5336.8	5504.8
22.5°	3968.3	3962.8	3920.8	3982.4	4074.7	4267.8	4463.7	4519.7	4931.0	5437.6	5530.0
25°	4144.7	4175.5	4136.3	4127.9	4192.2	4382.5	4642.8	4715.6	5174.5	5619.5	5608.3
27.5°	4474.9	4444.1	4444.1	4404.9	4388.2	4480.5	4835.9	4956.3	5446.0	5854.6	5697.9
30°	4791.2	4824.7	4799.5	4813.5	4701.6	4693.2	5110.2	5258.5	5927.4	6212.8	5888.2
32.5°	5292.1	5247.3	5289.3	5252.9	5104.6	4953.5	5482.4	5636.3	6509.4	6624.2	6173.6
35°	5709.0	5689.4	5868.6	5862.9	5622.3	5474.0	5877.0	6106.5	6915.2	7116.7	6509.4
37.5°	6302.4	6266.0	6470.3	6568.2	6352.7	6131.6	6442.3	6708.2	7293.1	7511.3	6853.6
40°	6912.4	7004.8	7279.0	7441.3	7211.9	6918.1	7133.5	7214.7	7544.9	7768.8	7088.8
42.5°	7684.9	7819.2	8099.0	8238.9	8219.3	7900.4	7835.9	7833.2	7726.9	7696.1	7262.3
45°	8426.5	8376.1	8807.0	9112.2	9358.4	9266.1	8513.2	8429.3	8015.1	7805.2	7307.0
47.5°	8751.1	8734.3	9028.1	9571.1	10410.7	10525.4	9498.3	9173.7	8502.0	8264.2	7550.5
50°	8331.3	8418.1	8709.1	9310.8	10598.1	11474.1	10707.3	10270.7	9070.1	8823.9	8127.0
52.5°	6960.0	7018.8	7295.8	8059.9	9960.0	12033.8	11865.9	11614.0	10114.0	9705.4	9131.7
54°	5723.1	5879.8	6030.9	6797.7	8823.9	11723.2	12501.2	12308.1	10794.1	10438.7	9764.2
55°	4984.3	5076.6	5185.8	5949.7	8037.4	11197.1	12428.4	12445.2	11250.2	10668.1	10189.6
57.5°	3640.9	3705.3	3593.3	3932.0	5518.7	9092.6	11367.8	11821.1	11865.9	11012.3	10449.8
60°	2781.8	2809.8	2683.8	2737.0	3431.0	6240.8	8793.1	9338.8	10704.5	9624.2	8851.9
62.5°	2157.7	2163.3	2160.5	2252.9	2364.8	3671.7	5499.2	5983.3	7379.8	6834.1	6011.3
65°	1589.6	1564.4	1609.2	1889.1	2017.7	2308.8	2896.5	3249.1	4010.3	3386.3	2420.7
67.5°	1029.9	1038.3	1083.0	1404.9	1729.5	1771.5	1782.7	1754.7	1757.5	968.3	607.3
70°	618.5	632.5	618.5	794.8	1236.9	1270.6	1161.4	1133.4	884.3	229.5	226.6
72.5°	366.6	347.0	310.7	341.4	514.9	615.7	554.1	551.3	347.0	134.3	134.3
75°	153.9	139.9	114.7	103.5	137.2	131.5	131.5	117.6	92.3	89.6	83.9
77.5°	30.8	30.8	22.4	25.1	33.6	39.2	47.6	47.6	56.0	56.0	53.2
80°	0.0	2.8	8.4	16.8	25.1	36.4	42.0	42.0	47.6	47.6	39.2
82.5°	0.0	2.8	8.4	16.8	22.4	33.6	42.0	42.0	47.6	50.4	42.0
85°	0.0	2.8	8.4	14.0	22.4	28.0	28.0	25.1	19.6	16.8	11.2
87.5°	0.0	0.0	2.8	5.6	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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°	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6
2.5°	5420.8	5418.1	5350.9	5241.7	5216.6	5124.1	5112.9	5057.0	5087.8	4984.3	4973.1
5°	5376.0	5342.5	5261.3	5191.3	4987.0	4841.6	4726.8	4586.8	4505.7	4519.7	4466.5
7.5°	5440.4	5353.6	5210.9	4967.5	4718.3	4463.7	4326.6	4041.1	3937.6	3783.7	3761.3
10°	5373.2	5308.9	5087.8	4684.8	4340.6	3974.0	3652.1	3335.9	3095.2	2991.7	2969.2
12.5°	5367.7	5255.7	4886.3	4438.5	3940.3	3414.2	2946.9	2552.3	2314.4	2180.0	2149.3
15°	5280.9	5146.6	4659.6	4057.9	3369.5	2714.6	2205.3	1824.6	1642.7	1564.4	1586.8
17.5°	5289.3	5087.8	4432.9	3654.9	2806.9	1992.6	1505.6	1309.7	1262.2	1281.8	1281.8
20°	5280.9	4956.3	4158.7	3190.3	2149.3	1382.5	1105.4	1035.4	1066.2	1127.8	1113.8
22.5°	5236.2	4894.7	3906.8	2700.6	1581.2	1024.3	887.2	889.9	937.5	1013.1	1029.9
25°	5269.7	4757.5	3587.8	2205.3	1153.0	817.2	769.6	789.2	839.6	895.6	906.8
27.5°	5244.5	4659.6	3254.8	1712.7	842.3	702.4	699.6	722.0	744.5	786.4	786.4
30°	5272.5	4570.1	2927.3	1273.4	694.1	643.7	632.5	649.3	671.6	680.0	677.3
32.5°	5376.0	4502.9	2549.5	951.5	612.9	587.7	587.7	587.7	584.9	596.1	598.9
35°	5602.7	4514.1	2216.5	736.0	559.7	540.1	531.8	520.5	514.9	520.5	523.4
37.5°	5849.0	4508.5	1872.2	626.9	520.5	503.8	484.2	467.3	464.6	470.1	461.8
40°	5958.1	4561.7	1553.2	562.5	484.2	464.6	433.8	419.7	422.6	428.2	422.6
42.5°	6106.5	4578.5	1346.1	512.2	450.6	419.7	400.2	383.4	380.6	389.0	386.2
45°	6103.6	4483.3	1127.8	484.2	419.7	386.2	361.0	347.0	347.0	352.6	355.4
47.5°	6282.8	4469.3	968.3	458.9	397.4	363.8	333.0	321.9	319.1	319.1	313.4
50°	6699.7	4665.2	845.2	431.0	369.5	338.6	313.4	299.5	288.2	282.7	279.9
52.5°	7514.2	5275.3	750.0	397.4	338.6	313.4	291.1	279.9	265.8	251.9	249.1
54°	8303.4	5905.0	744.5	369.5	313.4	296.6	277.0	271.5	254.7	235.1	229.5
55°	8658.8	6271.6	764.0	347.0	296.6	285.4	268.7	263.1	246.2	223.9	221.1
57.5°	8952.6	6414.3	752.8	288.2	268.7	265.8	251.9	243.5	223.9	193.1	187.5
60°	7206.3	4849.9	540.1	254.7	246.2	240.7	229.5	223.9	198.7	165.1	162.3
62.5°	4553.3	2790.2	344.2	223.9	215.5	207.1	193.1	187.5	165.1	131.5	123.1
65°	1939.4	1155.8	232.3	198.7	184.7	170.7	159.5	151.1	131.5	98.0	95.1
67.5°	503.8	411.4	193.1	173.5	153.9	134.3	125.9	111.9	89.6	67.2	64.3
70°	226.6	207.1	162.3	145.5	123.1	103.5	92.3	78.4	58.8	44.7	42.0
72.5°	134.3	131.5	123.1	109.2	92.3	78.4	67.2	53.2	39.2	25.1	25.1
75°	83.9	81.2	83.9	75.5	64.3	58.8	50.4	36.4	22.4	11.2	11.2
77.5°	50.4	50.4	50.4	47.6	44.7	44.7	36.4	22.4	11.2	2.8	2.8
80°	39.2	39.2	42.0	39.2	39.2	39.2	30.8	16.8	5.6	0.0	0.0
82.5°	39.2	42.0	47.6	44.7	39.2	33.6	28.0	16.8	5.6	0.0	0.0
85°	11.2	8.4	14.0	19.6	28.0	25.1	19.6	14.0	5.6	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	2.8	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)