

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: P651889

Luminaire Tested: **GALN-SA5A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651889
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-SA5A-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA 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: 11241.6 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

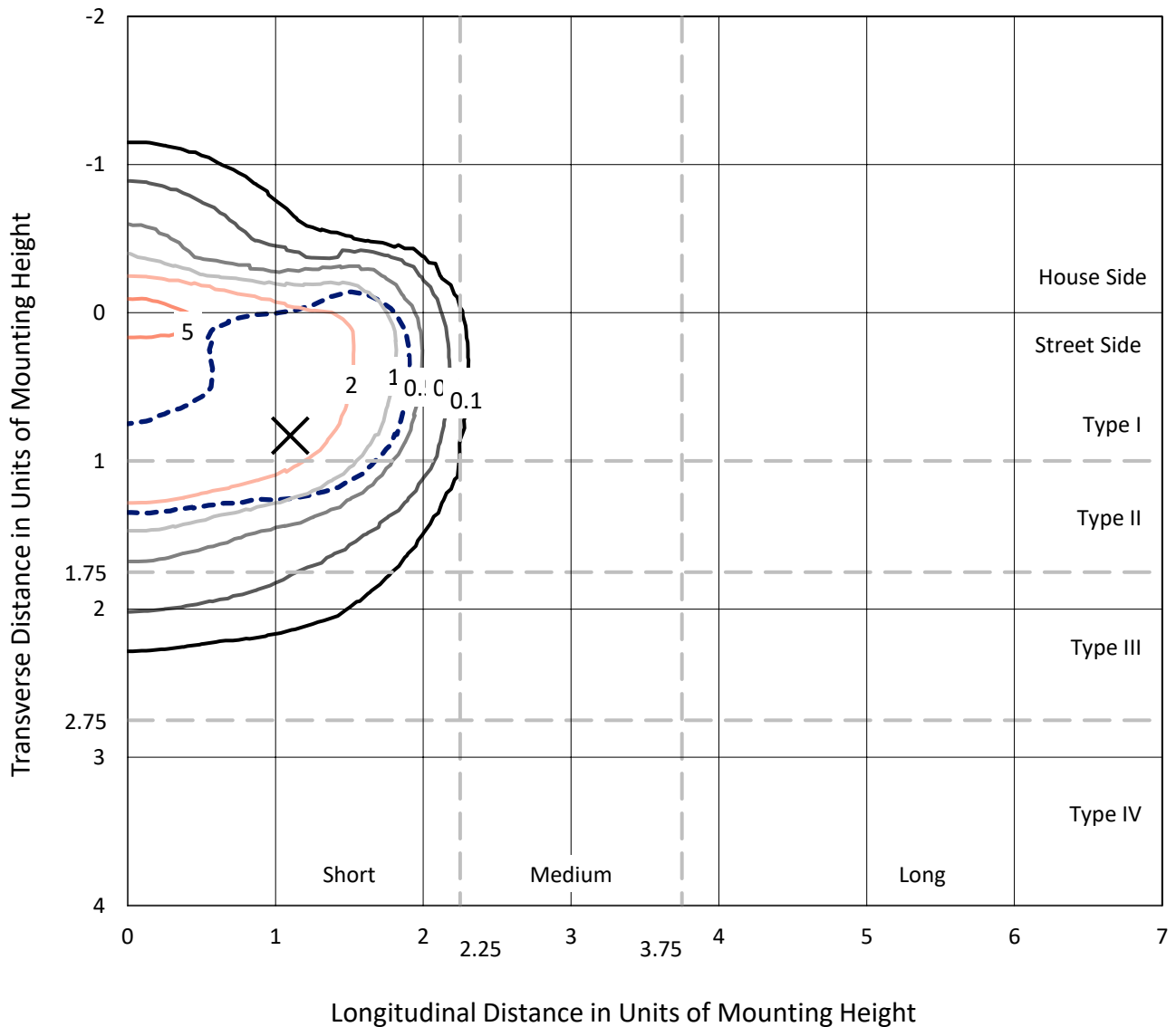
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

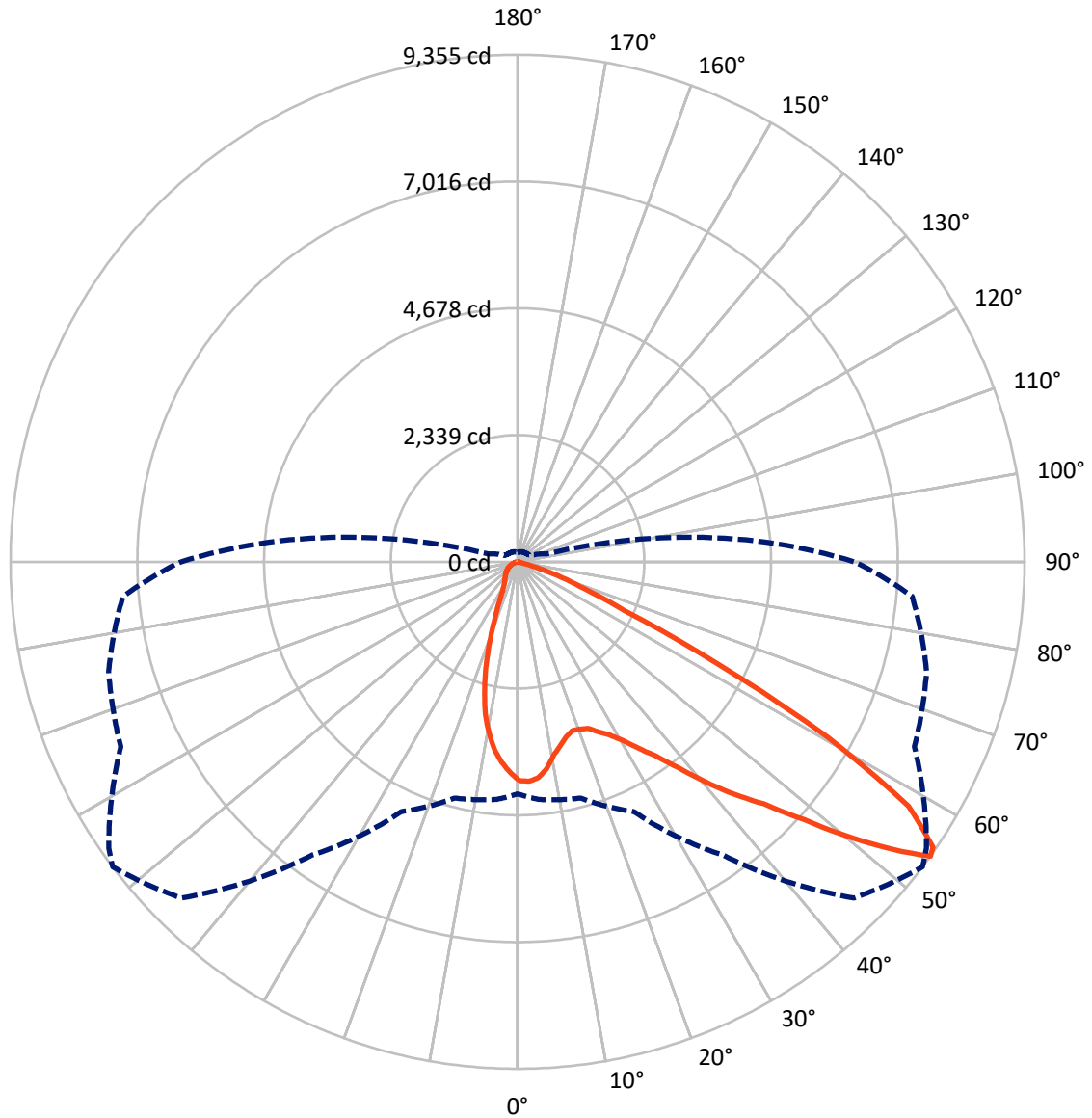
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	1860.0	0.0	1860.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9381.7	0.0	9381.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	11241.6	0.0	11241.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.4	3.1
10°-20°	794.3	7.1
20°-30°	1128.8	10.0
30°-40°	1742.1	15.5
40°-50°	2731.4	24.3
50°-60°	3172.9	28.2
60°-70°	1198.9	10.7
70°-80°	114.0	1.0
80°-90°	12.8	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°	11241.6	100.0
0°-180°	11241.6	100.0

Coefficient of Utilization

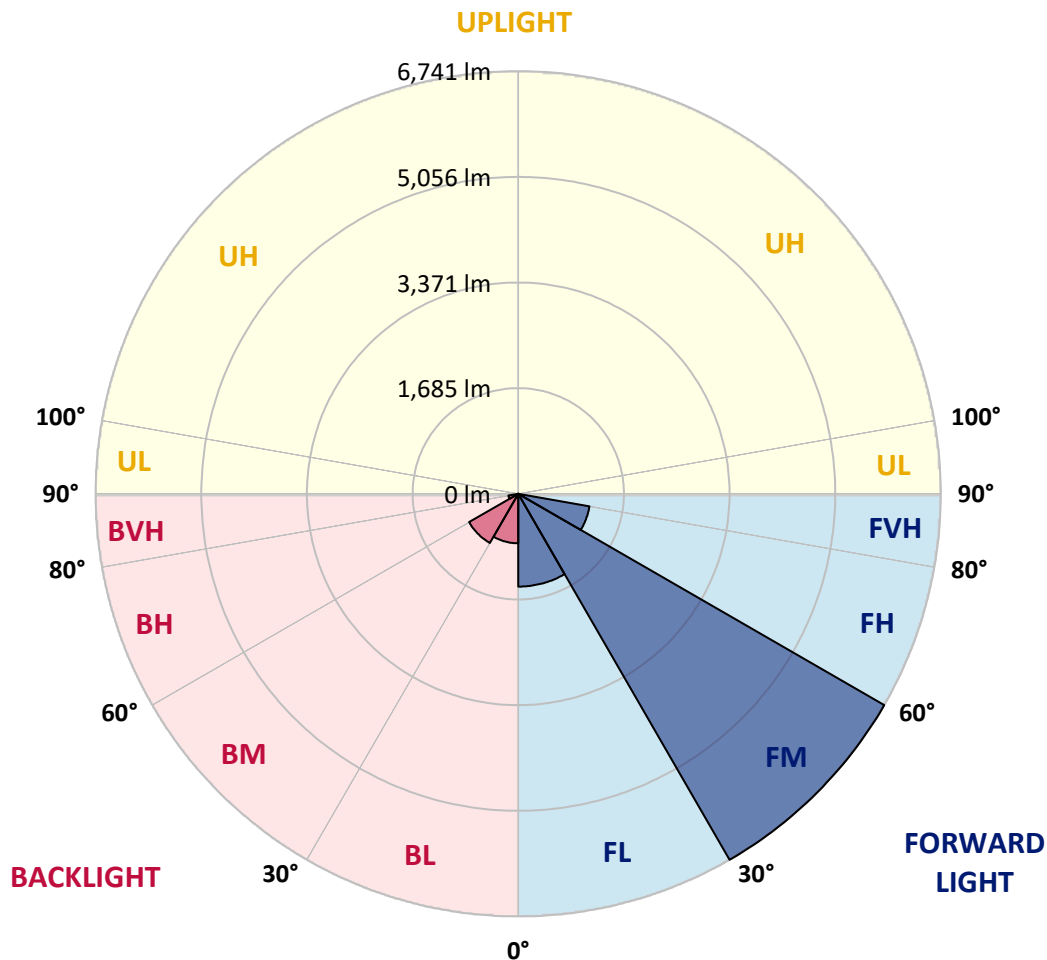


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.2	13.2			
FM (30°-60°)	6741.3	60.0			
FH (60°-80°)	1153.6	10.3			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	789.3	7.0	B2/1000		
BM (30°-60°)	905.1	8.1	B1/1000		
BH (60°-80°)	159.4	1.4	B1/500		G1/500
BVH (80°-90°)	6.2	0.1			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°	53°	55°	65°	75°	85°
0°	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8
2.5°	4016.9	3981.3	4016.9	4021.1	4046.2	4069.3	4054.5	4088.1	4069.3	4048.3	4042.0
5°	3692.2	3740.4	3742.5	3817.9	3801.2	3939.4	4000.1	3983.4	4086.0	4079.7	4065.1
7.5°	3401.2	3382.3	3407.4	3495.4	3606.4	3765.6	3853.5	3851.4	3998.0	4102.7	4092.2
10°	3131.0	3128.9	3181.3	3250.4	3344.6	3512.1	3633.6	3694.3	3922.6	4081.8	4104.8
12.5°	2948.8	2940.4	2996.9	3053.5	3202.2	3332.0	3487.0	3516.3	3778.1	4008.5	4046.2
15°	2829.4	2848.2	2852.4	2961.3	3055.6	3227.3	3348.8	3409.5	3711.1	3949.8	4094.3
17.5°	2808.4	2833.6	2835.7	2925.8	3026.3	3170.7	3277.5	3359.3	3654.6	3979.2	4096.4
20°	2850.3	2835.7	2848.2	2904.8	3003.2	3141.5	3296.5	3323.6	3635.7	3993.8	4119.5
22.5°	2969.7	2965.5	2934.1	2980.2	3049.3	3193.8	3340.4	3382.3	3690.1	4069.3	4138.3
25°	3101.7	3124.7	3095.4	3089.1	3137.3	3279.6	3474.4	3528.9	3872.4	4205.3	4197.0
27.5°	3348.8	3325.7	3325.7	3296.5	3283.9	3353.0	3619.0	3709.0	4075.5	4381.3	4264.0
30°	3585.4	3610.6	3591.7	3602.2	3518.4	3512.1	3824.2	3935.2	4435.7	4649.4	4406.4
32.5°	3960.4	3926.8	3958.3	3931.0	3820.0	3706.9	4102.7	4218.0	4871.3	4957.2	4620.0
35°	4272.4	4257.7	4391.8	4387.6	4207.4	4096.4	4398.0	4569.7	5175.0	5325.8	4871.3
37.5°	4716.3	4689.2	4842.1	4915.3	4754.1	4588.6	4821.1	5020.0	5457.8	5621.1	5128.9
40°	5172.9	5242.0	5447.2	5568.8	5397.0	5177.1	5338.3	5399.1	5646.2	5813.7	5304.9
42.5°	5750.9	5851.5	6060.9	6165.6	6151.0	5912.2	5864.0	5861.9	5782.4	5759.3	5434.7
45°	6305.9	6268.2	6590.7	6819.1	7003.3	6934.2	6370.8	6308.0	5998.1	5841.0	5468.2
47.5°	6548.9	6536.3	6756.2	7162.5	7790.8	7876.6	7108.0	6865.1	6362.5	6184.5	5650.4
50°	6234.8	6299.7	6517.5	6967.8	7931.1	8586.6	8012.8	7686.1	6787.6	6603.4	6081.9
52.5°	5208.6	5252.5	5459.9	6031.6	7453.6	9005.5	8879.9	8691.3	7568.8	7263.0	6833.7
54°	4282.9	4400.1	4513.2	5087.0	6603.4	8773.1	9355.2	9210.7	8077.7	7811.7	7307.0
55°	3729.9	3799.0	3880.7	4452.5	6014.8	8379.3	9300.8	9313.3	8419.1	7983.4	7625.3
57.5°	2724.7	2772.9	2689.1	2942.5	4130.0	6804.4	8507.1	8846.3	8879.9	8241.0	7820.1
60°	2081.7	2102.7	2008.4	2048.3	2567.6	4670.3	6580.3	6988.7	8010.7	7202.3	6624.3
62.5°	1614.7	1618.9	1616.8	1686.0	1769.7	2747.7	4115.3	4477.7	5522.7	5114.3	4498.6
65°	1189.6	1170.7	1204.2	1413.6	1510.0	1727.8	2167.6	2431.5	3001.1	2534.1	1811.6
67.5°	770.7	777.0	810.5	1051.3	1294.3	1325.7	1334.1	1313.1	1315.2	724.6	454.5
70°	462.8	473.3	462.8	594.8	925.7	950.8	869.2	848.2	661.8	171.7	169.6
72.5°	274.3	259.7	232.5	255.5	385.3	460.8	414.7	412.6	259.7	100.5	100.5
75°	115.2	104.7	85.9	77.5	102.6	98.4	98.4	88.0	69.1	67.0	62.8
77.5°	23.0	23.0	16.7	18.8	25.1	29.4	35.6	35.6	41.9	41.9	39.8
80°	0.0	2.1	6.3	12.5	18.8	27.2	31.5	31.5	35.6	35.6	29.4
82.5°	0.0	2.1	6.3	12.5	16.7	25.1	31.5	31.5	35.6	37.7	31.5
85°	0.0	2.1	6.3	10.5	16.7	20.9	20.9	18.8	14.6	12.5	8.4
87.5°	0.0	0.0	2.1	4.2	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8	4037.8
2.5°	4056.6	4054.5	4004.3	3922.6	3903.8	3834.6	3826.3	3784.4	3807.5	3729.9	3721.6
5°	4023.2	3998.0	3937.3	3884.9	3732.0	3623.1	3537.2	3432.5	3371.8	3382.3	3342.5
7.5°	4071.3	4006.4	3899.5	3717.4	3531.0	3340.4	3237.8	3024.2	2946.7	2831.5	2814.7
10°	4021.1	3972.9	3807.5	3505.9	3248.3	2973.9	2733.1	2496.4	2316.3	2238.8	2222.1
12.5°	4016.9	3933.1	3656.7	3321.5	2948.8	2555.0	2205.3	1910.0	1732.0	1631.5	1608.4
15°	3951.9	3851.4	3487.0	3036.8	2521.6	2031.4	1650.3	1365.4	1229.4	1170.7	1187.5
17.5°	3958.3	3807.5	3317.4	2735.2	2100.6	1491.2	1126.8	980.1	944.5	959.2	959.2
20°	3951.9	3709.0	3112.1	2387.5	1608.4	1034.6	827.2	774.9	797.9	844.0	833.5
22.5°	3918.5	3662.9	2923.7	2021.0	1183.3	766.5	663.9	666.0	701.6	758.2	770.7
25°	3943.5	3560.3	2684.9	1650.3	862.9	611.6	575.9	590.6	628.3	670.2	678.5
27.5°	3924.7	3487.0	2435.7	1281.7	630.4	525.7	523.6	540.3	557.1	588.5	588.5
30°	3945.6	3420.0	2190.6	952.9	519.4	481.7	473.3	485.8	502.7	508.9	506.8
32.5°	4023.2	3369.7	1907.9	712.1	458.7	439.8	439.8	439.8	437.7	446.1	448.2
35°	4192.8	3378.1	1658.7	550.8	418.8	404.2	397.9	389.6	385.3	389.6	391.7
37.5°	4377.1	3373.9	1401.1	469.1	389.6	376.9	362.3	349.8	347.7	351.9	345.6
40°	4458.7	3413.7	1162.3	420.9	362.3	347.7	324.6	314.1	316.2	320.4	316.2
42.5°	4569.7	3426.2	1007.3	383.2	337.2	314.1	299.5	286.9	284.8	291.1	289.1
45°	4567.6	3355.1	844.0	362.3	314.1	289.1	270.1	259.7	259.7	263.9	266.0
47.5°	4701.7	3344.6	724.6	343.5	297.4	272.2	249.2	240.9	238.8	238.8	234.6
50°	5013.8	3491.2	632.5	322.5	276.4	253.4	234.6	224.1	215.7	211.5	209.4
52.5°	5623.2	3947.7	561.3	297.4	253.4	234.6	217.8	209.4	199.0	188.5	186.4
54°	6213.8	4419.0	557.1	276.4	234.6	222.0	207.3	203.2	190.6	175.9	171.7
55°	6479.7	4693.3	571.7	259.7	222.0	213.6	201.1	196.9	184.3	167.5	165.4
57.5°	6699.7	4800.2	563.4	215.7	201.1	199.0	188.5	182.2	167.5	144.5	140.3
60°	5392.8	3629.4	404.2	190.6	184.3	180.1	171.7	167.5	148.7	123.5	121.4
62.5°	3407.4	2088.0	257.6	167.5	161.2	155.0	144.5	140.3	123.5	98.4	92.2
65°	1451.3	865.0	173.8	148.7	138.3	127.7	119.3	113.1	98.4	73.3	71.2
67.5°	376.9	307.9	144.5	129.9	115.2	100.5	94.3	83.8	67.0	50.3	48.2
70°	169.6	155.0	121.4	108.9	92.2	77.5	69.1	58.6	44.0	33.5	31.5
72.5°	100.5	98.4	92.2	81.7	69.1	58.6	50.3	39.8	29.4	18.8	18.8
75°	62.8	60.7	62.8	56.5	48.2	44.0	37.7	27.2	16.7	8.4	8.4
77.5°	37.7	37.7	37.7	35.6	33.5	33.5	27.2	16.7	8.4	2.1	2.1
80°	29.4	29.4	31.5	29.4	29.4	29.4	23.0	12.5	4.2	0.0	0.0
82.5°	29.4	31.5	35.6	33.5	29.4	25.1	20.9	12.5	4.2	0.0	0.0
85°	8.4	6.3	10.5	14.6	20.9	18.8	14.6	10.5	4.2	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1	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)