

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: P648479

Luminaire Tested: **GALN-SA6B-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648479
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-SA6B-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA 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: 15421.2 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

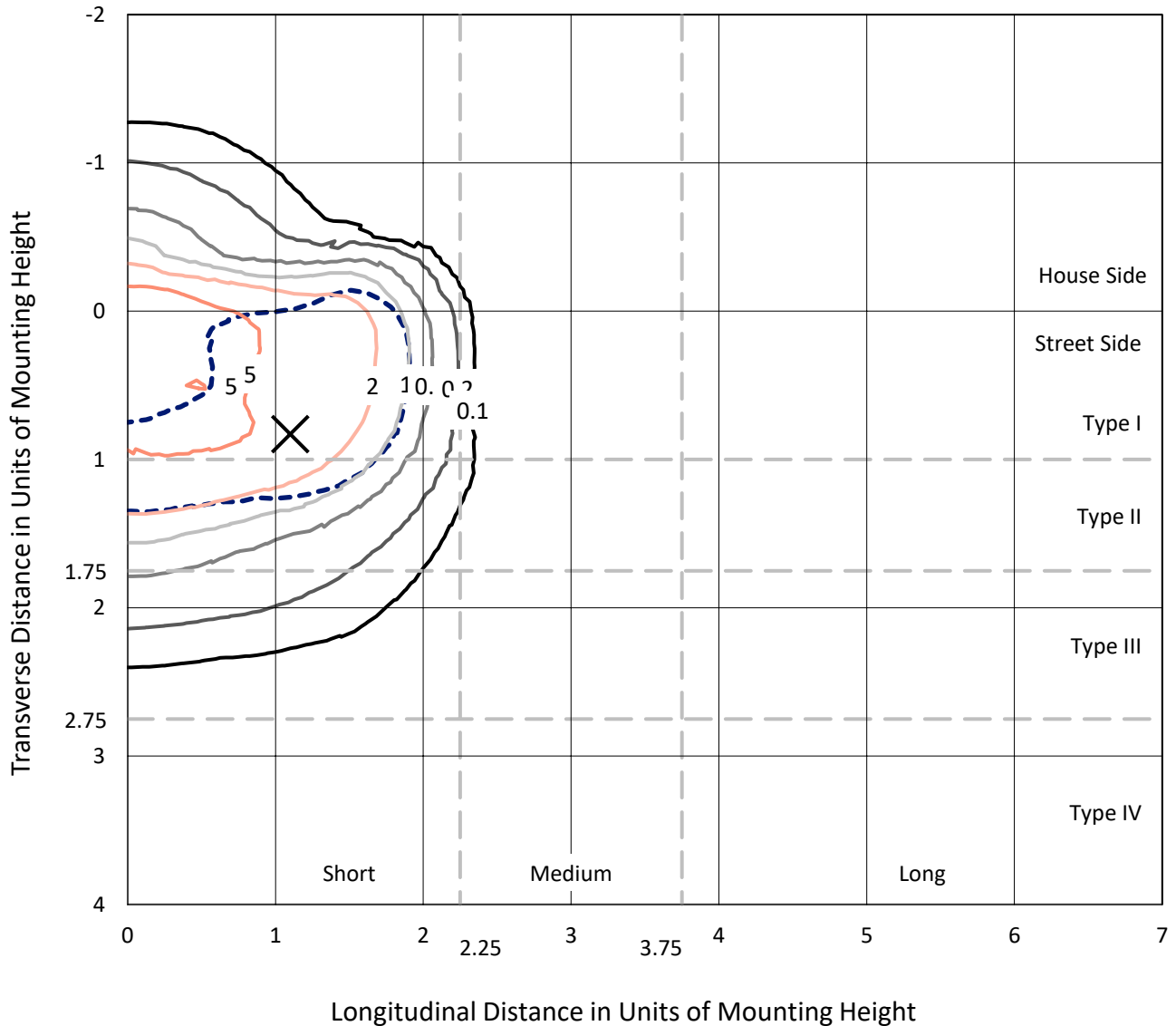
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

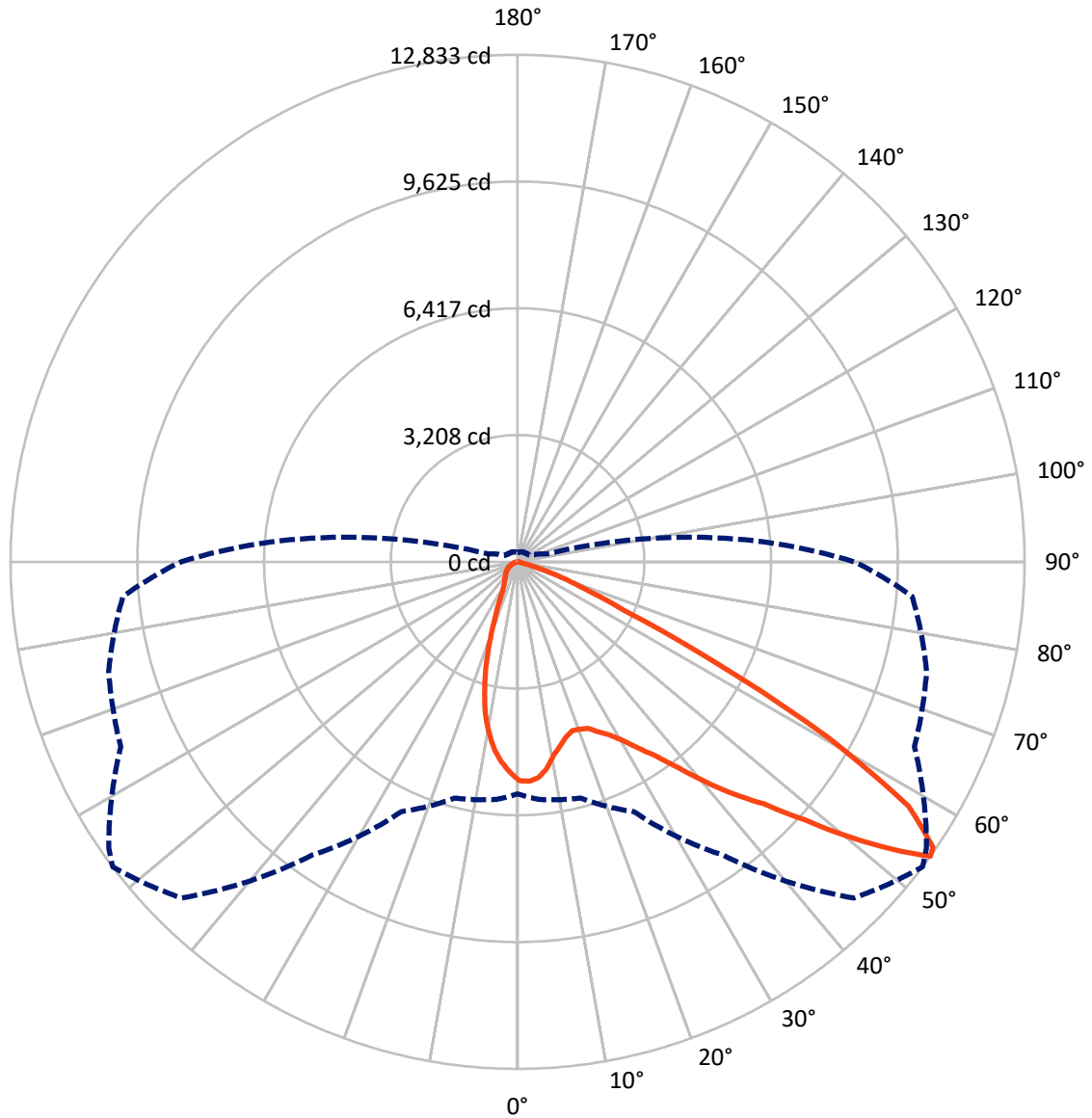
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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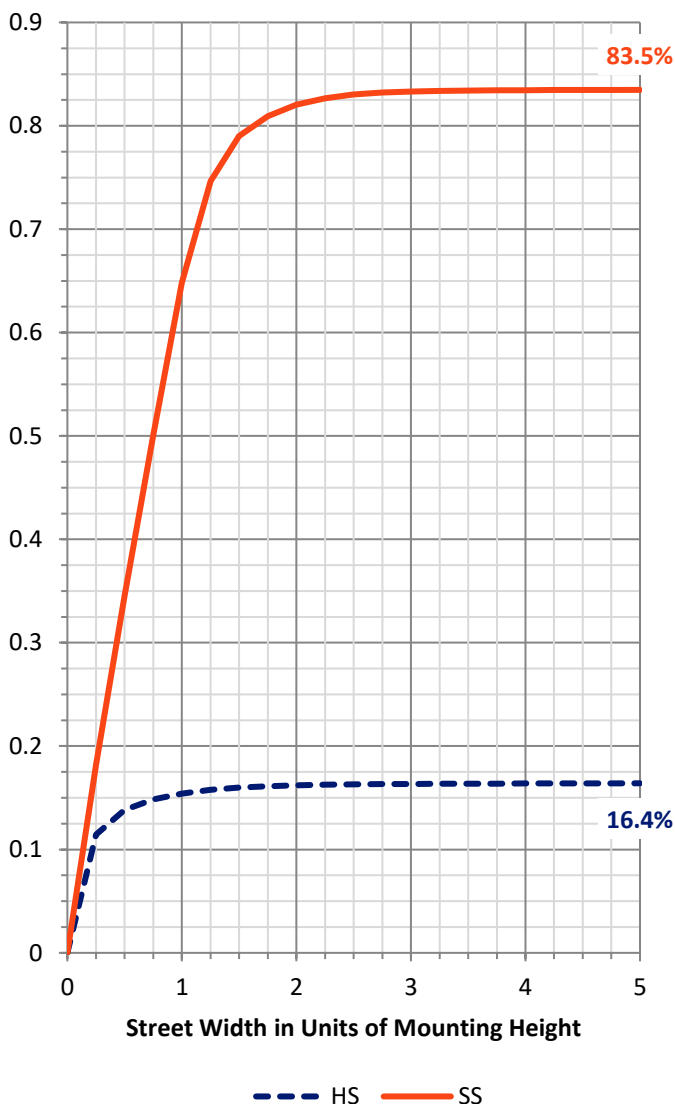
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2551.5	0.0	2551.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12869.7	0.0	12869.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	15421.2	0.0	15421.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.2	3.1
10°-20°	1089.6	7.1
20°-30°	1548.5	10.0
30°-40°	2389.8	15.5
40°-50°	3746.9	24.3
50°-60°	4352.6	28.2
60°-70°	1644.7	10.7
70°-80°	156.4	1.0
80°-90°	17.6	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°	15421.2	100.0
0°-180°	15421.2	100.0

Coefficient of Utilization

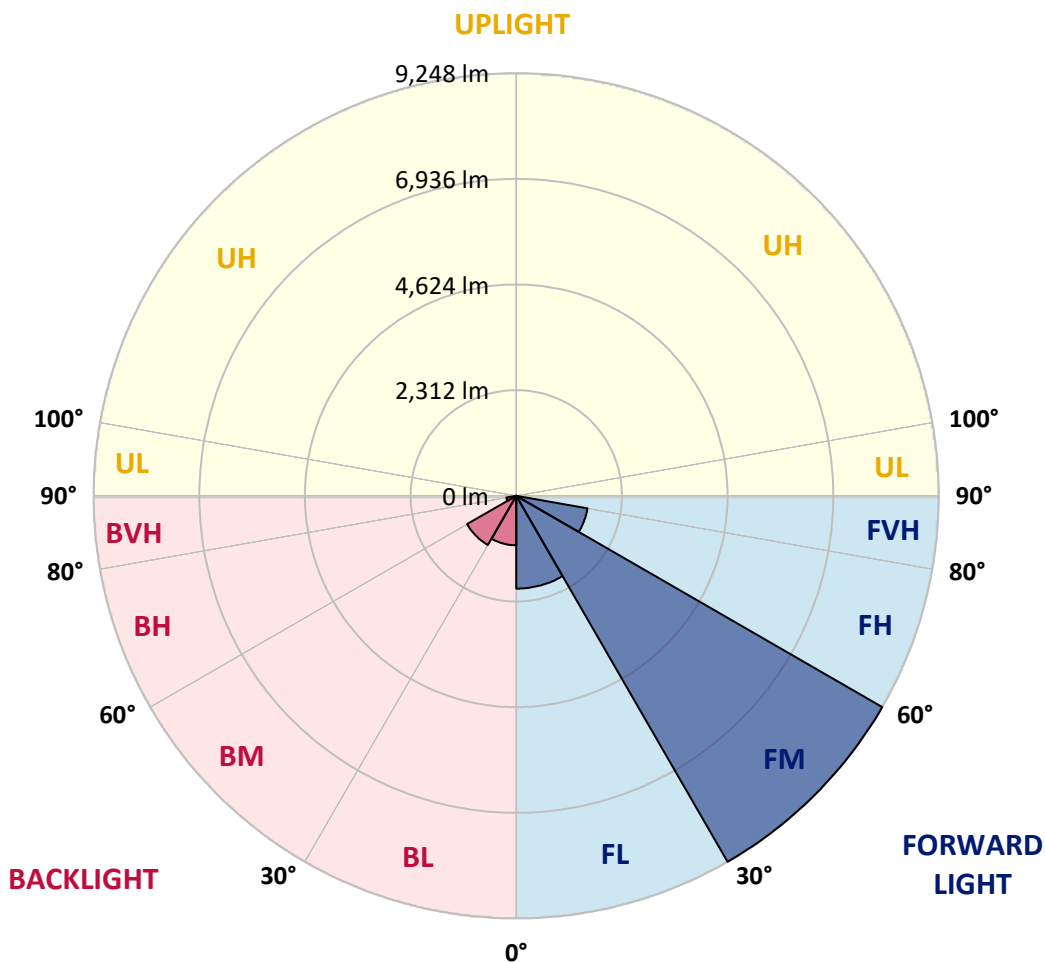


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2030.6	13.2			
FM (30°-60°)	9247.6	60.0			
FH (60°-80°)	1582.5	10.3			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	1082.7	7.0	B3/2500		
BM (30°-60°)	1241.6	8.1	B2/2500		
BH (60°-80°)	218.6	1.4	B1/500		G1/500
BVH (80°-90°)	8.5	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°	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0
2.5°	5510.3	5461.4	5510.3	5516.1	5550.5	5582.1	5562.0	5608.0	5582.1	5553.4	5544.8
5°	5065.0	5131.1	5134.0	5237.4	5214.4	5404.0	5487.3	5464.3	5605.1	5596.5	5576.4
7.5°	4665.7	4639.8	4674.3	4794.9	4947.2	5165.5	5286.2	5283.4	5484.4	5628.1	5613.7
10°	4295.1	4292.2	4364.0	4458.8	4588.1	4818.0	4984.6	5067.9	5381.0	5599.4	5630.9
12.5°	4045.1	4033.6	4111.1	4188.7	4392.7	4570.8	4783.4	4823.7	5182.8	5498.8	5550.5
15°	3881.3	3907.2	3913.0	4062.4	4191.6	4427.2	4593.9	4677.2	5090.8	5418.4	5616.6
17.5°	3852.6	3887.1	3889.9	4013.5	4151.4	4349.6	4496.1	4608.2	5013.3	5458.6	5619.4
20°	3910.1	3889.9	3907.2	3984.8	4119.8	4309.4	4522.0	4559.3	4987.4	5478.7	5651.1
22.5°	4073.8	4068.1	4025.0	4088.2	4183.0	4381.2	4582.4	4639.8	5062.1	5582.1	5676.9
25°	4254.8	4286.5	4246.2	4237.6	4303.7	4499.0	4766.2	4840.9	5312.0	5768.8	5757.4
27.5°	4593.9	4562.2	4562.2	4522.0	4504.8	4599.6	4964.5	5088.0	5590.8	6010.2	5849.3
30°	4918.5	4952.9	4927.1	4941.4	4826.6	4818.0	5246.0	5398.2	6084.8	6377.9	6044.7
32.5°	5432.8	5386.7	5429.9	5392.5	5240.2	5085.1	5628.1	5786.1	6682.4	6800.3	6337.7
35°	5860.8	5840.7	6024.6	6018.8	5771.7	5619.4	6033.2	6268.8	7099.1	7305.9	6682.4
37.5°	6469.9	6432.5	6642.3	6742.8	6521.6	6294.6	6613.5	6886.4	7486.9	7711.0	7035.8
40°	7096.2	7191.0	7472.5	7639.2	7403.6	7101.9	7323.2	7406.5	7745.4	7975.2	7277.1
42.5°	7889.1	8027.0	8314.3	8458.0	8437.8	8110.3	8044.2	8041.3	7932.2	7900.5	7455.3
45°	8650.4	8598.7	9041.1	9354.3	9607.1	9512.3	8739.5	8653.3	8228.1	8012.6	7501.2
47.5°	8983.7	8966.4	9268.1	9825.5	10687.3	10805.2	9750.8	9417.5	8728.0	8483.8	7751.2
50°	8552.7	8641.8	8940.6	9558.2	10879.9	11779.1	10991.8	10543.7	9311.2	9058.4	8343.0
52.5°	7145.0	7205.3	7489.8	8274.0	10224.8	12353.6	12181.3	11922.7	10382.8	9963.4	9374.4
54°	5875.2	6036.1	6191.2	6978.4	9058.4	12034.7	12833.4	12635.2	11080.9	10716.1	10023.7
55°	5116.7	5211.5	5323.5	6107.9	8251.1	11494.6	12758.8	12776.0	11549.2	10951.7	10460.4
57.5°	3737.7	3803.7	3688.9	4036.4	5665.5	9334.2	11669.9	12135.3	12181.3	11305.0	10727.6
60°	2855.7	2884.4	2755.1	2809.7	3522.2	6406.7	9026.8	9587.0	10989.0	9880.1	9087.1
62.5°	2215.0	2220.7	2217.9	2312.7	2427.6	3769.3	5645.4	6142.3	7575.9	7015.8	6171.1
65°	1631.9	1606.0	1652.0	1939.3	2071.4	2370.1	2973.5	3335.5	4116.9	3476.3	2485.1
67.5°	1057.2	1065.9	1111.9	1442.2	1775.5	1818.6	1830.0	1801.4	1804.2	994.0	623.4
70°	634.9	649.3	634.9	815.9	1269.9	1304.3	1192.3	1163.5	907.8	235.6	232.7
72.5°	376.4	356.3	318.9	350.5	528.6	632.0	568.8	566.0	356.3	137.9	137.9
75°	158.0	143.7	117.8	106.3	140.8	135.0	135.0	120.7	94.8	91.9	86.2
77.5°	31.6	31.6	23.0	25.8	34.5	40.2	48.9	48.9	57.5	57.5	54.6
80°	0.0	2.9	8.6	17.2	25.8	37.3	43.1	43.1	48.9	48.9	40.2
82.5°	0.0	2.9	8.6	17.2	23.0	34.5	43.1	43.1	48.9	51.7	43.1
85°	0.0	2.9	8.6	14.3	23.0	28.7	28.7	25.8	20.1	17.2	11.5
87.5°	0.0	0.0	2.9	5.7	2.9	5.7	5.7	5.7	5.7	5.7	5.7
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°	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0
2.5°	5564.9	5562.0	5493.1	5381.0	5355.2	5260.4	5248.8	5191.4	5223.0	5116.7	5105.2
5°	5518.9	5484.4	5401.1	5329.3	5119.6	4970.2	4852.4	4708.7	4625.4	4639.8	4585.2
7.5°	5585.0	5496.0	5349.4	5099.4	4843.8	4582.4	4441.6	4148.5	4042.2	3884.2	3861.2
10°	5516.1	5450.0	5223.0	4809.3	4455.9	4079.6	3749.2	3424.5	3177.5	3071.2	3048.2
12.5°	5510.3	5395.4	5016.1	4556.5	4045.1	3505.0	3025.2	2620.2	2375.9	2238.0	2206.4
15°	5421.3	5283.4	4783.4	4165.8	3459.1	2786.8	2263.9	1873.2	1686.4	1606.0	1629.0
17.5°	5429.9	5223.0	4550.7	3752.1	2881.6	2045.5	1545.6	1344.6	1295.7	1315.8	1315.8
20°	5421.3	5088.0	4269.2	3275.1	2206.4	1419.3	1134.8	1063.0	1094.6	1157.8	1143.4
22.5°	5375.3	5024.7	4010.6	2772.4	1623.2	1051.5	910.7	913.6	962.5	1040.0	1057.2
25°	5409.7	4884.0	3683.1	2263.9	1183.7	838.9	790.0	810.2	861.8	919.3	930.8
27.5°	5383.9	4783.4	3341.2	1758.2	864.7	721.1	718.2	741.2	764.2	807.3	807.3
30°	5412.6	4691.5	3005.1	1307.2	712.5	660.8	649.3	666.5	689.5	698.1	695.2
32.5°	5518.9	4622.6	2617.3	976.8	629.1	603.3	603.3	603.3	600.5	611.9	614.8
35°	5751.6	4634.0	2275.4	755.6	574.6	554.4	545.8	534.4	528.6	534.4	537.2
37.5°	6004.4	4628.3	1922.0	643.5	534.4	517.1	497.0	479.7	476.9	482.6	474.0
40°	6116.5	4682.9	1594.5	577.5	497.0	476.9	445.3	431.0	433.8	439.6	433.8
42.5°	6268.8	4700.1	1381.9	525.8	462.5	431.0	410.8	393.6	390.7	399.3	396.4
45°	6265.9	4602.5	1157.8	497.0	431.0	396.4	370.6	356.3	356.3	362.0	364.9
47.5°	6449.7	4588.1	994.0	471.1	407.9	373.5	341.9	330.4	327.5	327.5	321.7
50°	6877.8	4789.2	867.6	442.4	379.2	347.7	321.7	307.4	295.9	290.2	287.3
52.5°	7713.9	5415.5	769.9	407.9	347.7	321.7	298.8	287.3	273.0	258.5	255.7
54°	8524.1	6061.9	764.2	379.2	321.7	304.5	284.4	278.7	261.4	241.3	235.6
55°	8888.9	6438.3	784.3	356.3	304.5	293.1	275.8	270.1	252.8	229.8	227.0
57.5°	9190.5	6584.8	772.8	295.9	275.8	273.0	258.5	249.9	229.8	198.3	192.5
60°	7397.8	4978.8	554.4	261.4	252.8	247.0	235.6	229.8	204.0	169.5	166.6
62.5°	4674.3	2864.3	353.4	229.8	221.2	212.6	198.3	192.5	169.5	135.0	126.4
65°	1990.9	1186.6	238.4	204.0	189.6	175.2	163.7	155.1	135.0	100.5	97.7
67.5°	517.1	422.4	198.3	178.1	158.0	137.9	129.3	114.9	91.9	69.0	66.1
70°	232.7	212.6	166.6	149.4	126.4	106.3	94.8	80.4	60.4	46.0	43.1
72.5°	137.9	135.0	126.4	112.0	94.8	80.4	69.0	54.6	40.2	25.8	25.8
75°	86.2	83.3	86.2	77.6	66.1	60.4	51.7	37.3	23.0	11.5	11.5
77.5°	51.7	51.7	51.7	48.9	46.0	46.0	37.3	23.0	11.5	2.9	2.9
80°	40.2	40.2	43.1	40.2	40.2	40.2	31.6	17.2	5.7	0.0	0.0
82.5°	40.2	43.1	48.9	46.0	40.2	34.5	28.7	17.2	5.7	0.0	0.0
85°	11.5	8.6	14.3	20.1	28.7	25.8	20.1	14.3	5.7	0.0	0.0
87.5°	5.7	5.7	5.7	5.7	2.9	2.9	2.9	2.9	2.9	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)