

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: P531117

Luminaire Tested: **GALN-SA6B-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531117  
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-827-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 14478 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

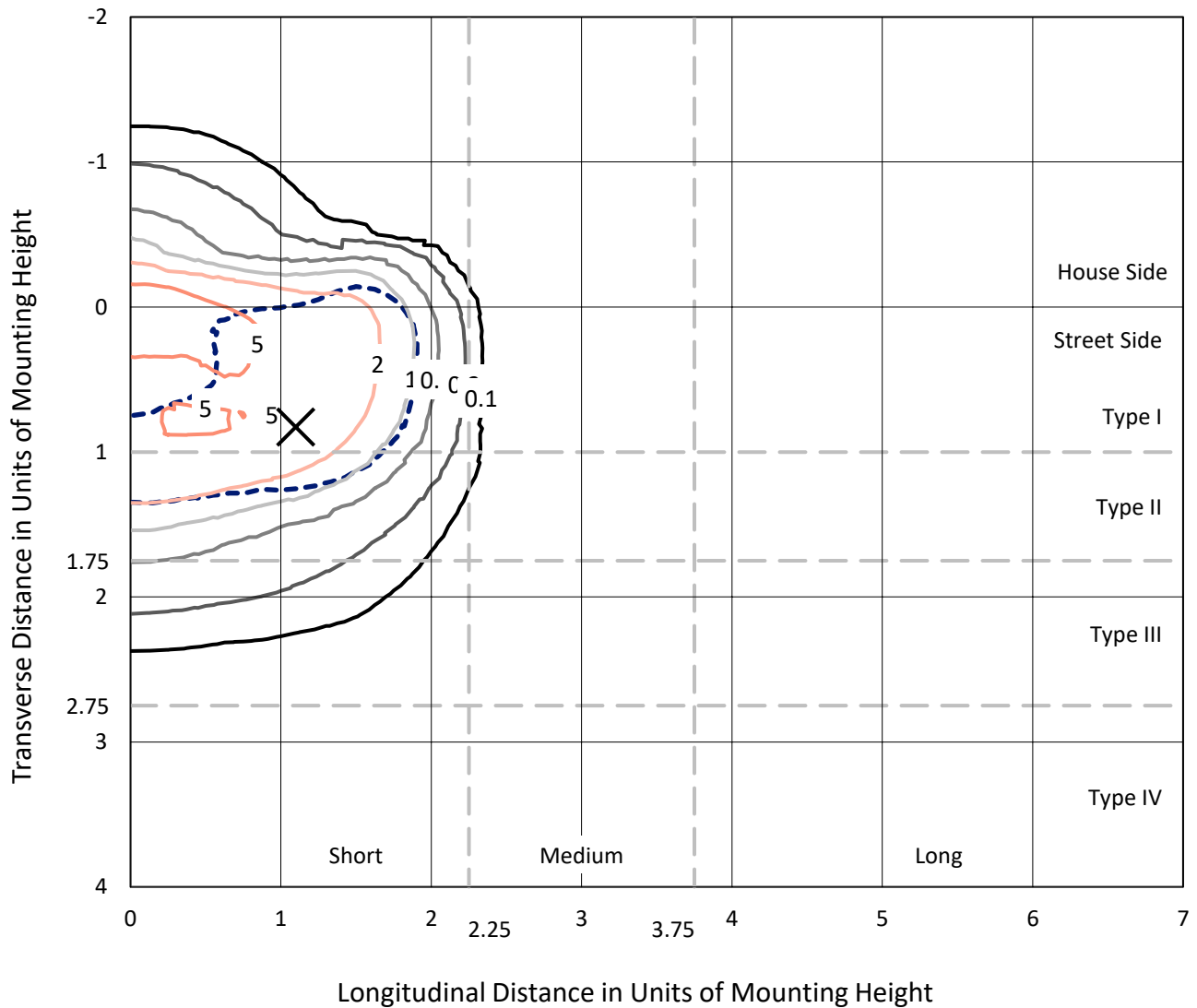
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

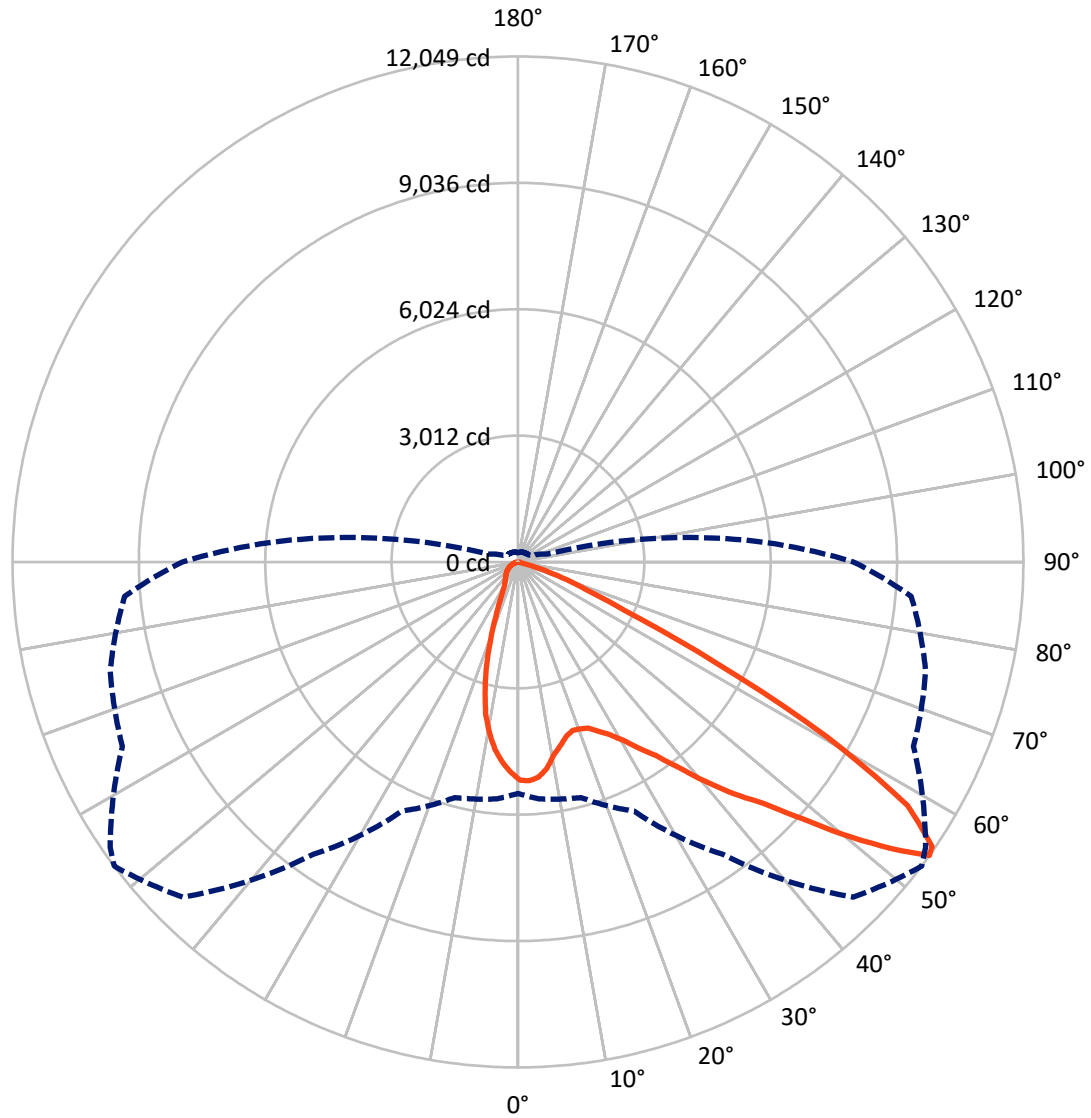
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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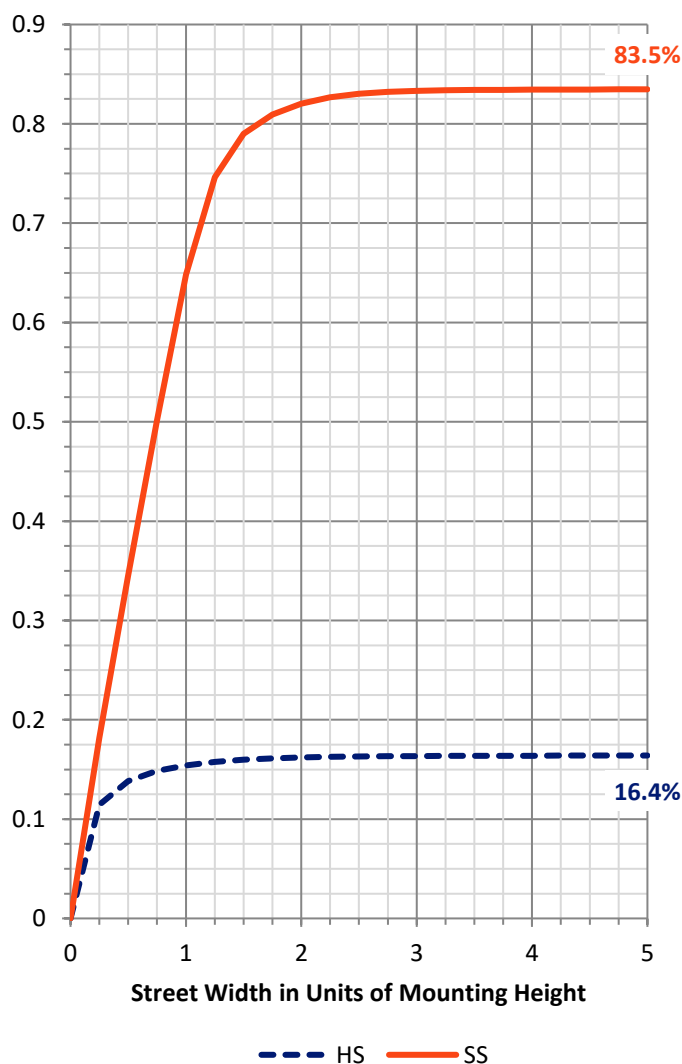
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2395.4	0.0	2395.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	12082.6	0.0	12082.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	14478.0	0.0	14478.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.2	3.1
10°-20°	1022.9	7.1
20°-30°	1453.8	10.0
30°-40°	2243.6	15.5
40°-50°	3517.7	24.3
50°-60°	4086.4	28.2
60°-70°	1544.1	10.7
70°-80°	146.8	1.0
80°-90°	16.5	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°	14478.0	100.0
0°-180°	14478.0	100.0

**Coefficient of Utilization**



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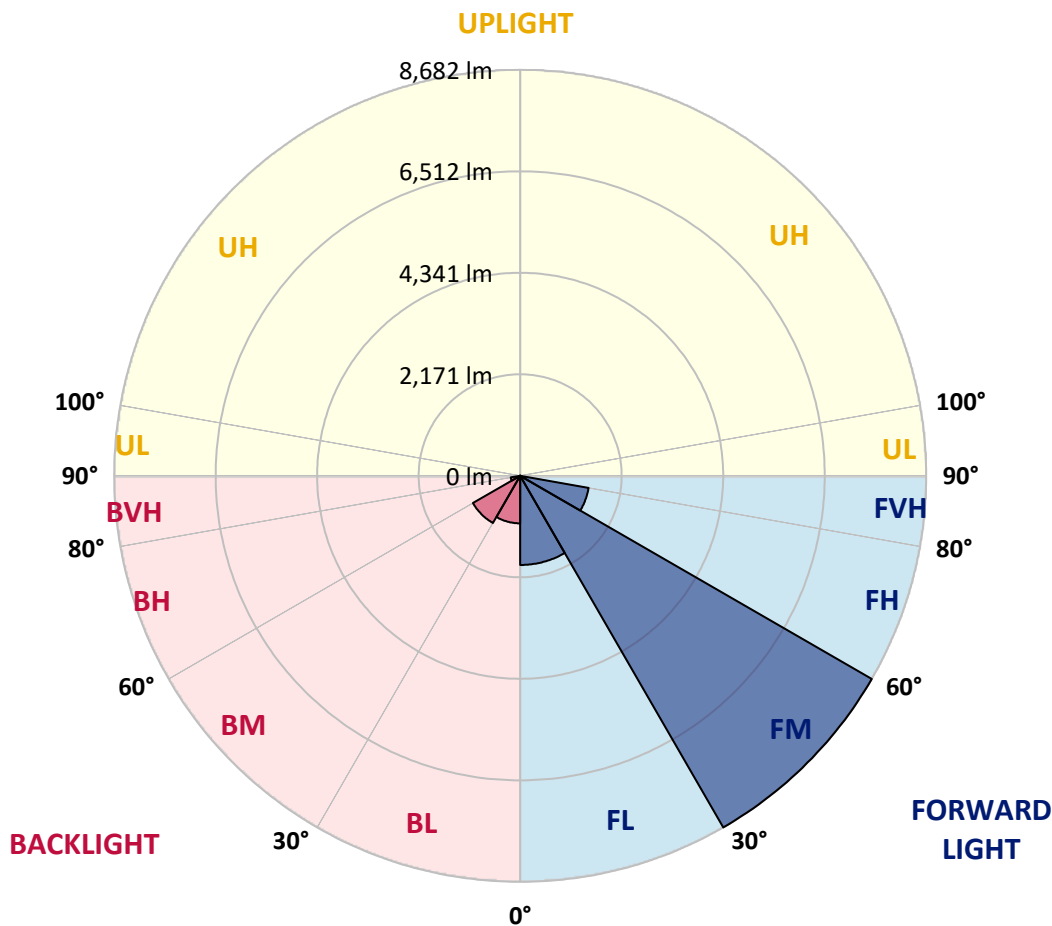
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1906.4	13.2			
FM (30°-60°)	8682.0	60.0			
FH (60°-80°)	1485.7	10.3			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	1016.5	7.0	B3/2500		
BM (30°-60°)	1165.7	8.1	B2/2500		
BH (60°-80°)	205.2	1.4	B1/500		G1/500
BVH (80°-90°)	8.0	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°	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3
2.5°	5173.3	5127.4	5173.3	5178.7	5211.0	5240.7	5221.8	5265.0	5240.7	5213.7	5205.6
5°	4755.2	4817.2	4819.9	4917.0	4895.5	5073.5	5151.7	5130.1	5262.3	5254.2	5235.3
7.5°	4380.3	4356.0	4388.4	4501.7	4644.6	4849.6	4962.9	4960.2	5149.0	5283.9	5270.4
10°	4032.4	4029.7	4097.1	4186.1	4307.5	4523.2	4679.7	4757.9	5051.9	5256.9	5286.6
12.5°	3797.7	3786.9	3859.7	3932.6	4124.1	4291.3	4490.9	4528.6	4865.8	5162.5	5211.0
15°	3644.0	3668.2	3673.6	3813.9	3935.3	4156.4	4312.9	4391.1	4779.5	5087.0	5273.1
17.5°	3617.0	3649.3	3652.0	3768.0	3897.5	4083.6	4221.2	4326.4	4706.7	5124.7	5275.8
20°	3670.9	3652.0	3668.2	3741.1	3867.8	4045.8	4245.4	4280.5	4682.4	5143.6	5305.4
22.5°	3824.7	3819.3	3778.8	3838.2	3927.2	4113.3	4302.1	4356.0	4752.5	5240.7	5329.7
25°	3994.6	4024.3	3986.5	3978.4	4040.4	4223.9	4474.7	4544.8	4987.2	5416.0	5405.2
27.5°	4312.9	4283.2	4283.2	4245.4	4229.3	4318.3	4660.8	4776.8	5248.8	5642.6	5491.6
30°	4617.7	4650.0	4625.7	4639.2	4531.3	4523.2	4925.1	5068.1	5712.7	5987.8	5675.0
32.5°	5100.5	5057.3	5097.8	5062.7	4919.7	4774.1	5283.9	5432.2	6273.7	6384.3	5950.1
35°	5502.3	5483.5	5656.1	5650.7	5418.7	5275.8	5664.2	5885.3	6664.8	6859.0	6273.7
37.5°	6074.2	6039.1	6236.0	6330.4	6122.7	5909.6	6209.0	6465.3	7029.0	7239.4	6605.5
40°	6662.2	6751.2	7015.5	7171.9	6950.8	6667.5	6875.2	6953.5	7271.7	7487.5	6832.1
42.5°	7406.6	7536.1	7805.8	7940.6	7921.8	7614.3	7552.2	7549.5	7447.0	7417.4	6999.3
45°	8121.4	8072.8	8488.2	8782.2	9019.5	8930.5	8205.0	8124.0	7724.9	7522.6	7042.5
47.5°	8434.2	8418.0	8701.3	9224.5	10033.7	10144.3	9154.4	8841.5	8194.2	7964.9	7277.1
50°	8029.6	8113.3	8393.8	8973.7	10214.4	11058.6	10319.6	9898.8	8741.7	8504.4	7832.7
52.5°	6708.0	6764.6	7031.7	7768.0	9599.4	11598.1	11436.2	11193.5	9747.8	9354.0	8801.1
54°	5515.8	5666.9	5812.5	6551.6	8504.4	11298.7	12048.5	11862.4	10403.2	10060.7	9410.6
55°	4803.8	4892.8	4998.0	5734.3	7746.4	10791.6	11978.4	11994.6	10842.9	10281.8	9820.6
57.5°	3509.1	3571.1	3463.2	3789.6	5318.9	8763.3	10956.1	11393.1	11436.2	10613.6	10071.4
60°	2681.0	2708.0	2586.6	2637.9	3306.8	6014.8	8474.7	9000.6	10316.9	9275.8	8531.3
62.5°	2079.6	2085.0	2082.3	2171.3	2279.2	3538.8	5300.1	5766.7	7112.6	6586.6	5793.6
65°	1532.0	1507.7	1550.9	1820.6	1944.7	2225.2	2791.6	3131.5	3865.1	3263.6	2333.1
67.5°	992.6	1000.7	1043.8	1354.0	1666.9	1707.3	1718.1	1691.2	1693.9	933.2	585.3
70°	596.1	609.6	596.1	766.0	1192.2	1224.5	1119.3	1092.4	852.3	221.2	218.5
72.5°	353.3	334.5	299.4	329.1	496.3	593.4	534.1	531.4	334.5	129.5	129.5
75°	148.3	134.9	110.6	99.8	132.2	126.8	126.8	113.3	89.0	86.3	80.9
77.5°	29.7	29.7	21.6	24.3	32.4	37.8	45.9	45.9	53.9	53.9	51.2
80°	0.0	2.7	8.1	16.2	24.3	35.1	40.5	40.5	45.9	45.9	37.8
82.5°	0.0	2.7	8.1	16.2	21.6	32.4	40.5	40.5	45.9	48.6	40.5
85°	0.0	2.7	8.1	13.5	21.6	27.0	27.0	24.3	18.9	16.2	10.8
87.5°	0.0	0.0	2.7	5.4	2.7	5.4	5.4	5.4	5.4	5.4	5.4
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°	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3	5200.3
2.5°	5224.5	5221.8	5157.1	5051.9	5027.6	4938.6	4927.8	4873.9	4903.6	4803.8	4793.0
5°	5181.4	5149.0	5070.8	5003.4	4806.5	4666.2	4555.6	4420.8	4342.5	4356.0	4304.8
7.5°	5243.4	5159.8	5022.2	4787.6	4547.5	4302.1	4169.9	3894.8	3795.0	3646.7	3625.1
10°	5178.7	5116.6	4903.6	4515.2	4183.4	3830.1	3519.9	3215.1	2983.1	2883.3	2861.8
12.5°	5173.3	5065.4	4709.4	4277.8	3797.7	3290.6	2840.2	2459.9	2230.6	2101.1	2071.5
15°	5089.7	4960.2	4490.9	3911.0	3247.5	2616.3	2125.4	1758.6	1583.3	1507.7	1529.3
17.5°	5097.8	4903.6	4272.4	3522.6	2705.3	1920.4	1451.1	1262.3	1216.4	1235.3	1235.3
20°	5089.7	4776.8	4008.1	3074.8	2071.5	1332.4	1065.4	998.0	1027.6	1087.0	1073.5
22.5°	5046.5	4717.4	3765.3	2602.8	1523.9	987.2	855.0	857.7	903.6	976.4	992.6
25°	5078.9	4585.3	3457.8	2125.4	1111.3	787.6	741.7	760.6	809.2	863.1	873.9
27.5°	5054.6	4490.9	3136.9	1650.7	811.9	677.0	674.3	695.9	717.5	757.9	757.9
30°	5081.6	4404.6	2821.3	1227.2	668.9	620.4	609.6	625.8	647.3	655.4	652.7
32.5°	5181.4	4339.8	2457.2	917.1	590.7	566.4	566.4	566.4	563.7	574.5	577.2
35°	5399.8	4350.6	2136.2	709.4	539.4	520.6	512.5	501.7	496.3	501.7	504.4
37.5°	5637.2	4345.2	1804.4	604.2	501.7	485.5	466.6	450.4	447.7	453.1	445.0
40°	5742.4	4396.5	1497.0	542.1	466.6	447.7	418.1	404.6	407.3	412.7	407.3
42.5°	5885.3	4412.7	1297.4	493.6	434.3	404.6	385.7	369.5	366.8	374.9	372.2
45°	5882.7	4321.0	1087.0	466.6	404.6	372.2	347.9	334.5	334.5	339.9	342.5
47.5°	6055.3	4307.5	933.2	442.3	383.0	350.6	321.0	310.2	307.5	307.5	302.1
50°	6457.2	4496.3	814.6	415.4	356.0	326.4	302.1	288.6	277.8	272.4	269.7
52.5°	7242.1	5084.3	722.9	383.0	326.4	302.1	280.5	269.7	256.2	242.8	240.1
54°	8002.7	5691.1	717.5	356.0	302.1	285.9	267.0	261.6	245.4	226.6	221.2
55°	8345.2	6044.5	736.3	334.5	285.9	275.1	258.9	253.5	237.4	215.8	213.1
57.5°	8628.4	6182.0	725.6	277.8	258.9	256.2	242.8	234.7	215.8	186.1	180.7
60°	6945.4	4674.3	520.6	245.4	237.4	232.0	221.2	215.8	191.5	159.1	156.4
62.5°	4388.4	2689.1	331.8	215.8	207.7	199.6	186.1	180.7	159.1	126.8	118.7
65°	1869.2	1114.0	223.9	191.5	178.0	164.5	153.7	145.7	126.8	94.4	91.7
67.5°	485.5	396.5	186.1	167.2	148.3	129.5	121.4	107.9	86.3	64.7	62.0
70°	218.5	199.6	156.4	140.3	118.7	99.8	89.0	75.5	56.6	43.2	40.5
72.5°	129.5	126.8	118.7	105.2	89.0	75.5	64.7	51.2	37.8	24.3	24.3
75°	80.9	78.2	80.9	72.8	62.0	56.6	48.6	35.1	21.6	10.8	10.8
77.5°	48.6	48.6	48.6	45.9	43.2	43.2	35.1	21.6	10.8	2.7	2.7
80°	37.8	37.8	40.5	37.8	37.8	37.8	29.7	16.2	5.4	0.0	0.0
82.5°	37.8	40.5	45.9	43.2	37.8	32.4	27.0	16.2	5.4	0.0	0.0
85°	10.8	8.1	13.5	18.9	27.0	24.3	18.9	13.5	5.4	0.0	0.0
87.5°	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	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)