

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: P529609

Luminaire Tested: **GALN-SA4D-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529609  
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-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 16640 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

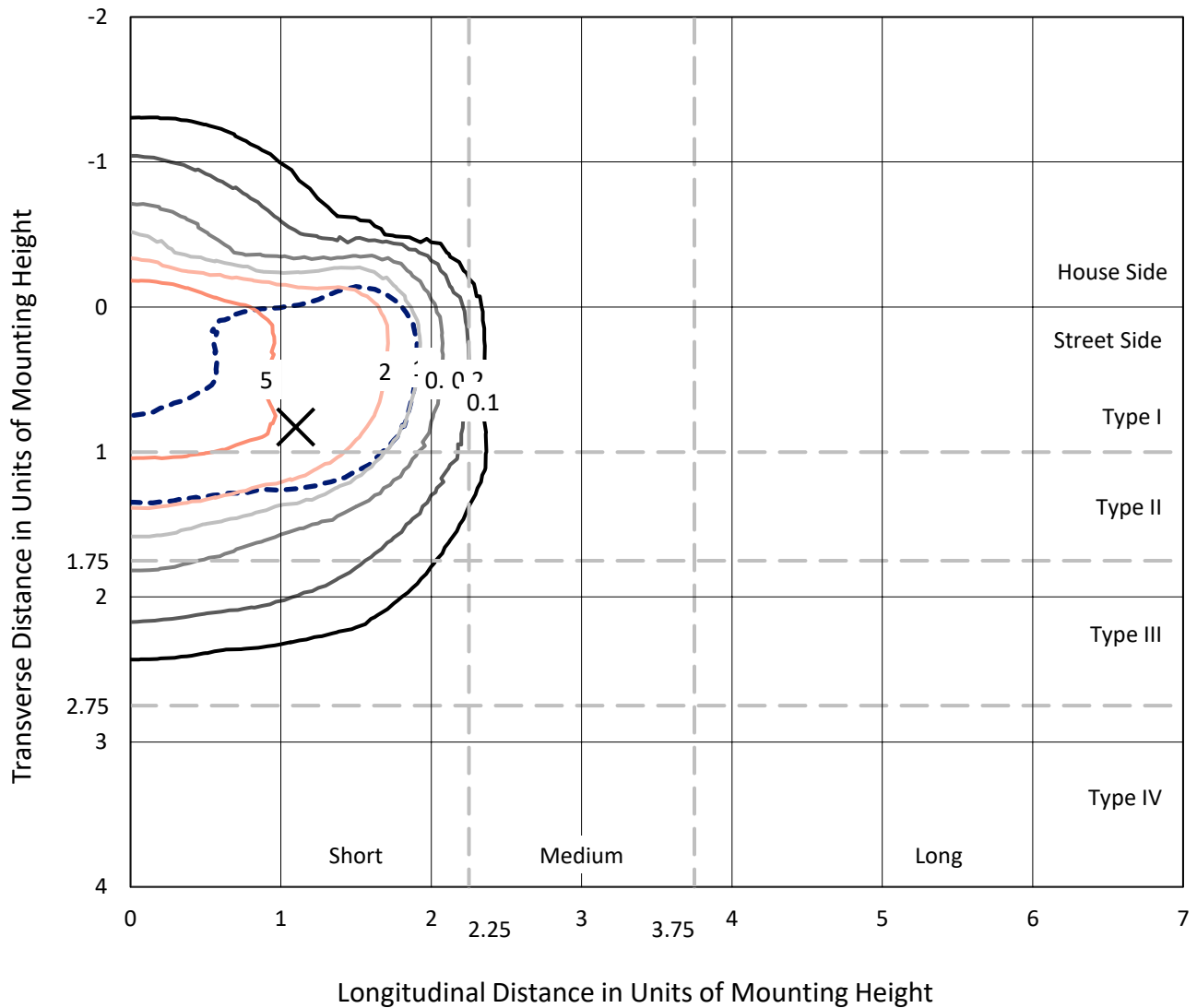
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

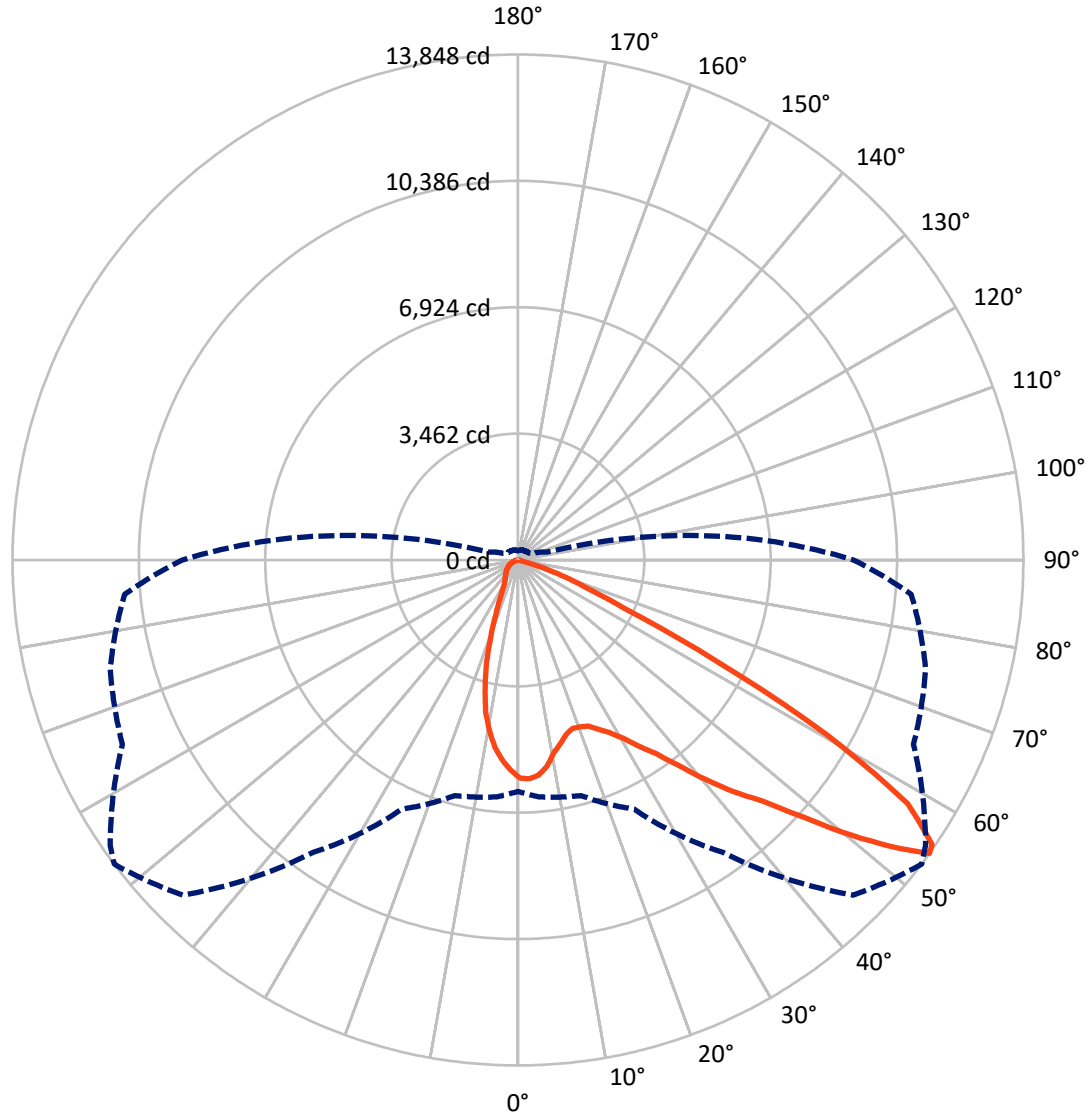
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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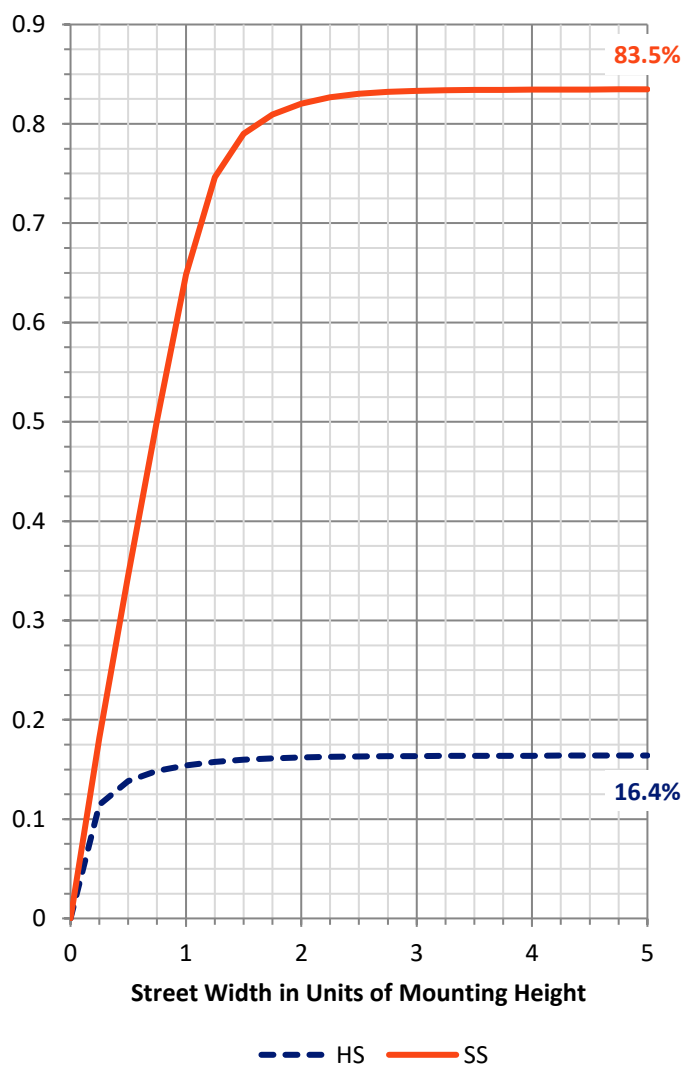
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2753.1	0.0	2753.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	13886.8	0.0	13886.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	16640.0	0.0	16640.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.8	3.1
10°-20°	1175.7	7.1
20°-30°	1670.9	10.0
30°-40°	2578.6	15.5
40°-50°	4043.0	24.3
50°-60°	4696.6	28.2
60°-70°	1774.6	10.7
70°-80°	168.8	1.0
80°-90°	19.0	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°	16640.0	100.0
0°-180°	16640.0	100.0

**Coefficient of Utilization**



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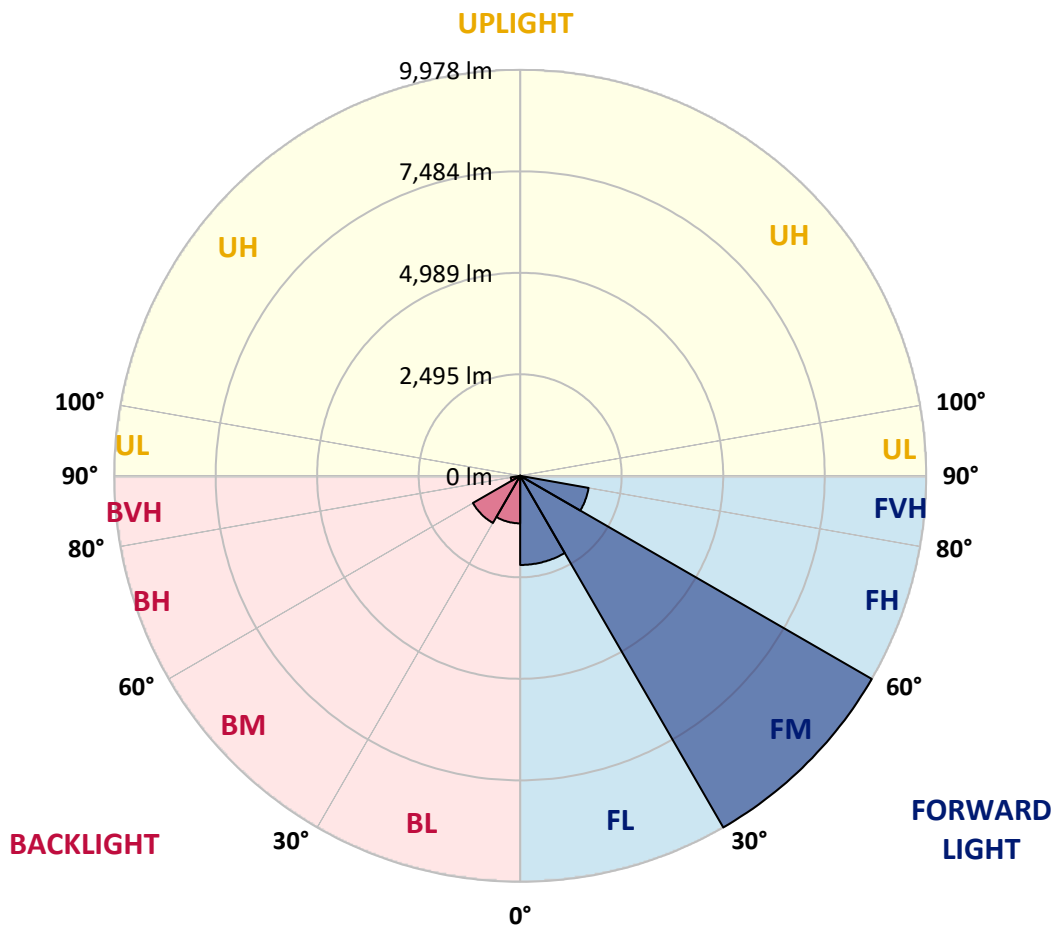
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.1	13.2			
FM (30°-60°)	9978.5	60.0			
FH (60°-80°)	1707.5	10.3			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	1168.3	7.0	B3/2500		
BM (30°-60°)	1339.8	8.1	B2/2500		
BH (60°-80°)	235.9	1.4	B1/500		G1/500
BVH (80°-90°)	9.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8
2.5°	5945.8	5893.1	5945.8	5952.0	5989.2	6023.3	6001.6	6051.2	6023.3	5992.3	5983.0
5°	5465.3	5536.6	5539.7	5651.3	5626.5	5831.1	5921.0	5896.2	6048.1	6038.8	6017.1
7.5°	5034.4	5006.5	5043.7	5173.9	5338.2	5573.8	5704.0	5700.9	5917.9	6072.9	6057.4
10°	4634.5	4631.4	4708.9	4811.2	4950.7	5198.7	5378.5	5468.4	5806.3	6041.9	6076.0
12.5°	4364.8	4352.4	4436.1	4519.8	4739.9	4932.1	5161.5	5204.9	5592.4	5933.4	5989.2
15°	4188.1	4216.0	4222.2	4383.4	4522.9	4777.1	4956.9	5046.8	5493.2	5846.6	6060.5
17.5°	4157.1	4194.3	4197.4	4330.7	4479.5	4693.4	4851.5	4972.4	5409.5	5890.0	6063.6
20°	4219.1	4197.4	4216.0	4299.7	4445.4	4650.0	4879.4	4919.7	5381.6	5911.7	6097.7
22.5°	4395.8	4389.6	4343.1	4411.3	4513.6	4727.5	4944.5	5006.5	5462.2	6023.3	6125.6
25°	4591.1	4625.2	4581.8	4572.5	4643.8	4854.6	5142.9	5223.5	5731.9	6224.8	6212.4
27.5°	4956.9	4922.8	4922.8	4879.4	4860.8	4963.1	5356.8	5490.1	6032.6	6485.2	6311.6
30°	5307.2	5344.4	5316.5	5332.0	5208.0	5198.7	5660.6	5824.9	6565.8	6882.0	6522.4
32.5°	5862.1	5812.5	5859.0	5818.7	5654.4	5487.0	6072.9	6243.4	7210.6	7337.7	6838.6
35°	6324.0	6302.3	6500.7	6494.5	6227.9	6063.6	6510.0	6764.2	7660.1	7883.3	7210.6
37.5°	6981.2	6940.9	7167.2	7275.7	7037.0	6792.1	7136.2	7430.7	8078.6	8320.4	7591.9
40°	7657.0	7759.3	8063.1	8242.9	7988.7	7663.2	7901.9	7991.8	8357.6	8605.6	7852.3
42.5°	8512.6	8661.4	8971.4	9126.4	9104.7	8751.3	8680.0	8676.9	8559.1	8525.0	8044.5
45°	9334.1	9278.3	9755.7	10093.6	10366.4	10264.1	9430.2	9337.2	8878.4	8645.9	8094.1
47.5°	9693.7	9675.1	10000.6	10602.0	11532.0	11659.1	10521.4	10161.8	9417.8	9154.3	8363.8
50°	9228.7	9324.8	9647.2	10313.7	11739.7	12710.0	11860.6	11377.0	10047.1	9774.3	9002.4
52.5°	7709.7	7774.8	8081.7	8928.0	11032.9	13330.0	13144.0	12865.0	11203.4	10750.8	10115.3
54°	6339.5	6513.1	6680.5	7529.9	9774.3	12985.9	13847.7	13633.8	11956.7	11563.0	10815.9
55°	5521.1	5623.4	5744.3	6590.6	8903.2	12403.1	13767.1	13785.7	12462.0	11817.2	11287.1
57.5°	4033.1	4104.4	3980.4	4355.5	6113.2	10071.9	12592.2	13094.4	13144.0	12198.5	11575.4
60°	3081.4	3112.4	2972.9	3031.8	3800.6	6913.0	9740.2	10344.7	11857.5	10660.9	9805.3
62.5°	2390.1	2396.3	2393.2	2495.5	2619.5	4067.2	6091.5	6627.8	8174.7	7570.2	6658.8
65°	1760.8	1732.9	1782.5	2092.5	2235.1	2557.5	3208.5	3599.1	4442.3	3751.0	2681.5
67.5°	1140.8	1150.1	1199.7	1556.2	1915.8	1962.3	1974.7	1943.7	1946.8	1072.6	672.7
70°	685.1	700.6	685.1	880.4	1370.2	1407.4	1286.5	1255.5	979.6	254.2	251.1
72.5°	406.1	384.4	344.1	378.2	570.4	682.0	613.8	610.7	384.4	148.8	148.8
75°	170.5	155.0	127.1	114.7	151.9	145.7	145.7	130.2	102.3	99.2	93.0
77.5°	34.1	34.1	24.8	27.9	37.2	43.4	52.7	52.7	62.0	62.0	58.9
80°	0.0	3.1	9.3	18.6	27.9	40.3	46.5	46.5	52.7	52.7	43.4
82.5°	0.0	3.1	9.3	18.6	24.8	37.2	46.5	46.5	52.7	55.8	46.5
85°	0.0	3.1	9.3	15.5	24.8	31.0	31.0	27.9	21.7	18.6	12.4
87.5°	0.0	0.0	3.1	6.2	3.1	6.2	6.2	6.2	6.2	6.2	6.2
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°	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8	5976.8
2.5°	6004.7	6001.6	5927.2	5806.3	5778.4	5676.1	5663.7	5601.7	5635.8	5521.1	5508.7
5°	5955.1	5917.9	5828.0	5750.5	5524.2	5363.0	5235.9	5080.9	4991.0	5006.5	4947.6
7.5°	6026.4	5930.3	5772.2	5502.5	5226.6	4944.5	4792.6	4476.4	4361.7	4191.2	4166.4
10°	5952.0	5880.7	5635.8	5189.4	4808.1	4402.0	4045.5	3695.2	3428.6	3313.9	3289.1
12.5°	5945.8	5821.8	5412.6	4916.6	4364.8	3782.0	3264.3	2827.2	2563.7	2414.9	2380.8
15°	5849.7	5700.9	5161.5	4495.0	3732.4	3007.0	2442.8	2021.2	1819.7	1732.9	1757.7
17.5°	5859.0	5635.8	4910.4	4048.6	3109.3	2207.2	1667.8	1450.8	1398.1	1419.8	1419.8
20°	5849.7	5490.1	4606.6	3534.0	2380.8	1531.4	1224.5	1147.0	1181.1	1249.3	1233.8
22.5°	5800.1	5421.9	4327.6	2991.5	1751.5	1134.6	982.7	985.8	1038.5	1122.2	1140.8
25°	5837.3	5270.0	3974.2	2442.8	1277.2	905.2	852.5	874.2	930.0	992.0	1004.4
27.5°	5809.4	5161.5	3605.3	1897.2	933.1	778.1	775.0	799.8	824.6	871.1	871.1
30°	5840.4	5062.3	3242.6	1410.5	768.8	713.0	700.6	719.2	744.0	753.3	750.2
32.5°	5955.1	4987.9	2824.1	1054.0	678.9	651.0	651.0	651.0	647.9	660.3	663.4
35°	6206.2	5000.3	2455.2	815.3	620.0	598.3	589.0	576.6	570.4	576.6	579.7
37.5°	6479.0	4994.1	2073.9	694.4	576.6	558.0	536.3	517.7	514.6	520.8	511.5
40°	6599.9	5053.0	1720.5	623.1	536.3	514.6	480.5	465.0	468.1	474.3	468.1
42.5°	6764.2	5071.6	1491.1	567.3	499.1	465.0	443.3	424.7	421.6	430.9	427.8
45°	6761.1	4966.2	1249.3	536.3	465.0	427.8	399.9	384.4	384.4	390.6	393.7
47.5°	6959.5	4950.7	1072.6	508.4	440.2	403.0	368.9	356.5	353.4	353.4	347.2
50°	7421.4	5167.7	936.2	477.4	409.2	375.1	347.2	331.7	319.3	313.1	310.0
52.5°	8323.5	5843.5	830.8	440.2	375.1	347.2	322.4	310.0	294.5	279.0	275.9
54°	9197.7	6541.0	824.6	409.2	347.2	328.6	306.9	300.7	282.1	260.4	254.2
55°	9591.4	6947.1	846.3	384.4	328.6	316.2	297.6	291.4	272.8	248.0	244.9
57.5°	9916.9	7105.2	833.9	319.3	297.6	294.5	279.0	269.7	248.0	213.9	207.7
60°	7982.5	5372.3	598.3	282.1	272.8	266.6	254.2	248.0	220.1	182.9	179.8
62.5°	5043.7	3090.7	381.3	248.0	238.7	229.4	213.9	207.7	182.9	145.7	136.4
65°	2148.3	1280.3	257.3	220.1	204.6	189.1	176.7	167.4	145.7	108.5	105.4
67.5°	558.0	455.7	213.9	192.2	170.5	148.8	139.5	124.0	99.2	74.4	71.3
70°	251.1	229.4	179.8	161.2	136.4	114.7	102.3	86.8	65.1	49.6	46.5
72.5°	148.8	145.7	136.4	120.9	102.3	86.8	74.4	58.9	43.4	27.9	27.9
75°	93.0	89.9	93.0	83.7	71.3	65.1	55.8	40.3	24.8	12.4	12.4
77.5°	55.8	55.8	55.8	52.7	49.6	49.6	40.3	24.8	12.4	3.1	3.1
80°	43.4	43.4	46.5	43.4	43.4	43.4	34.1	18.6	6.2	0.0	0.0
82.5°	43.4	46.5	52.7	49.6	43.4	37.2	31.0	18.6	6.2	0.0	0.0
85°	12.4	9.3	15.5	21.7	31.0	27.9	21.7	15.5	6.2	0.0	0.0
87.5°	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	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)