

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: P532897

Luminaire Tested: **GALN-SA8B-735-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532897  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-735-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25561 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

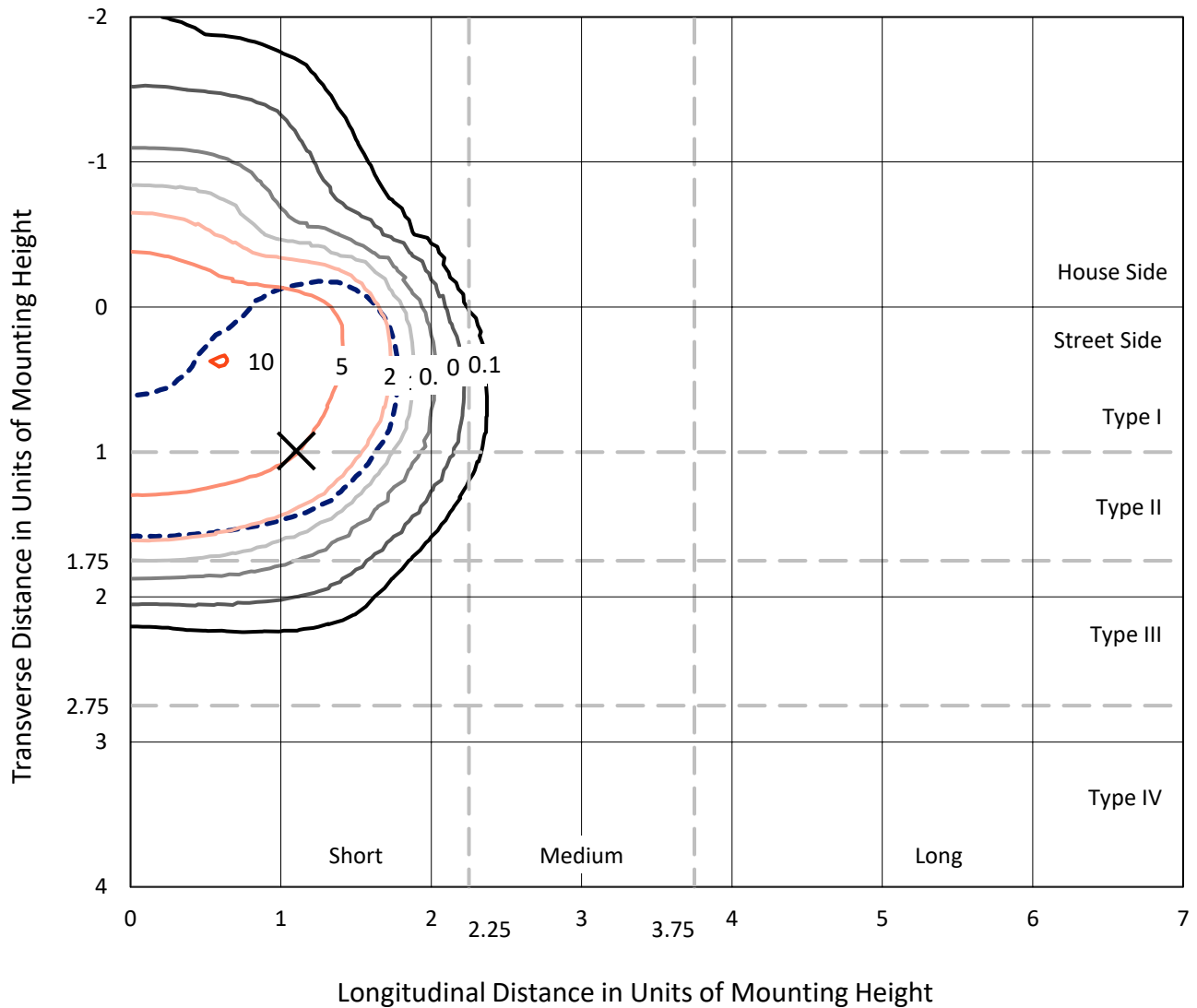
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

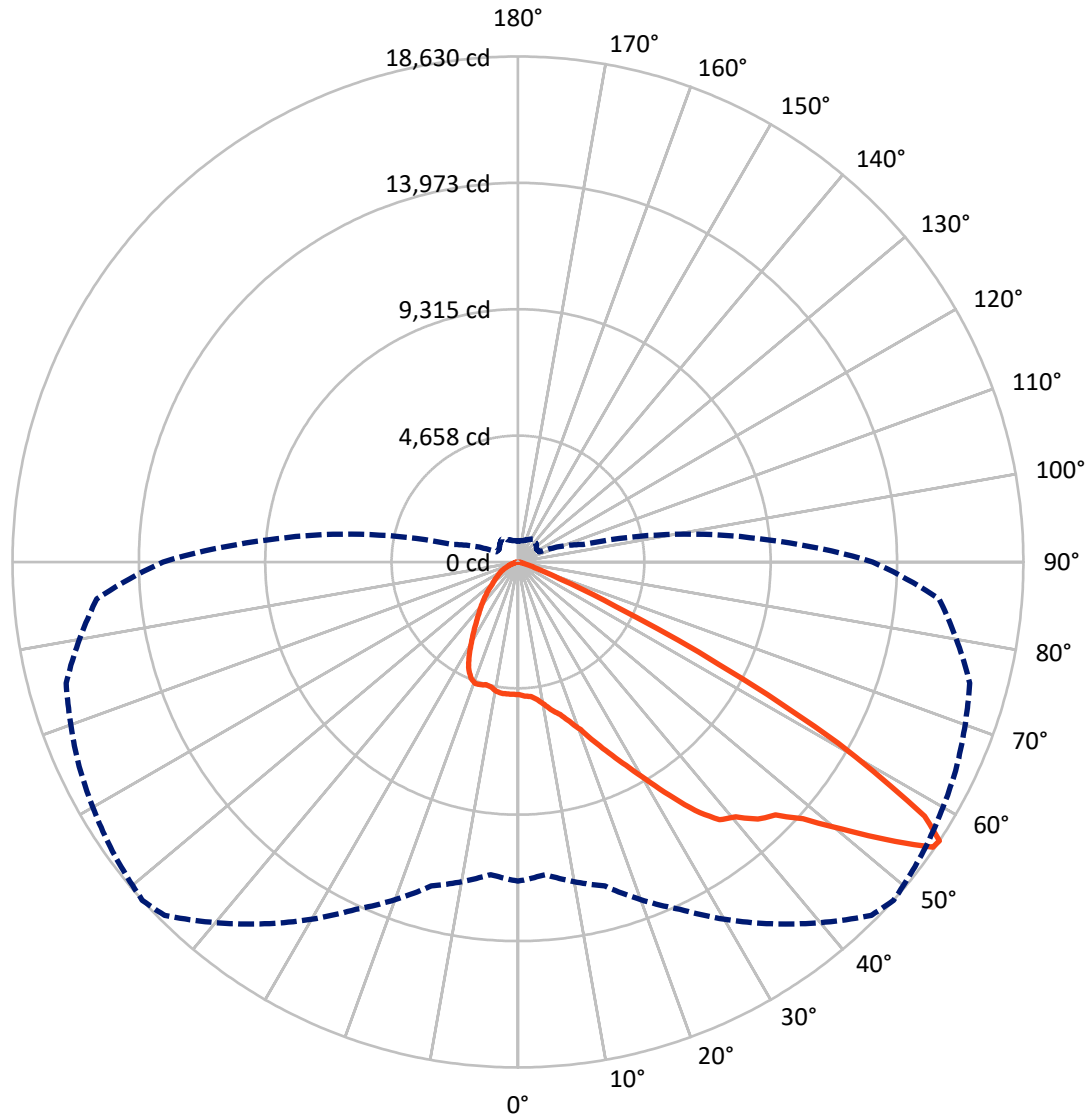
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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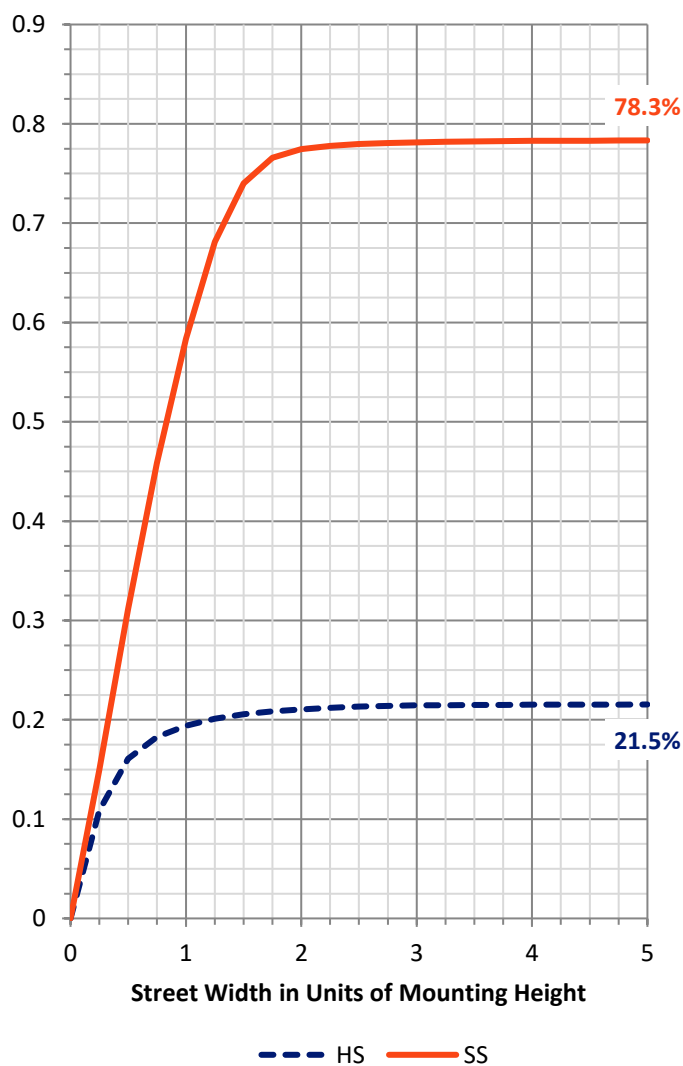
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5559.0	0.0	5559.0
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	20002.0	0.0	20002.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	25561.0	0.0	25561.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.6	1.9
10°-20°	1519.9	5.9
20°-30°	2756.7	10.8
30°-40°	4330.3	16.9
40°-50°	6317.1	24.7
50°-60°	7610.8	29.8
60°-70°	2228.4	8.7
70°-80°	282.7	1.1
80°-90°	39.7	0.2
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°	25561.0	100.0
0°-180°	25561.0	100.0

**Coefficient of Utilization**



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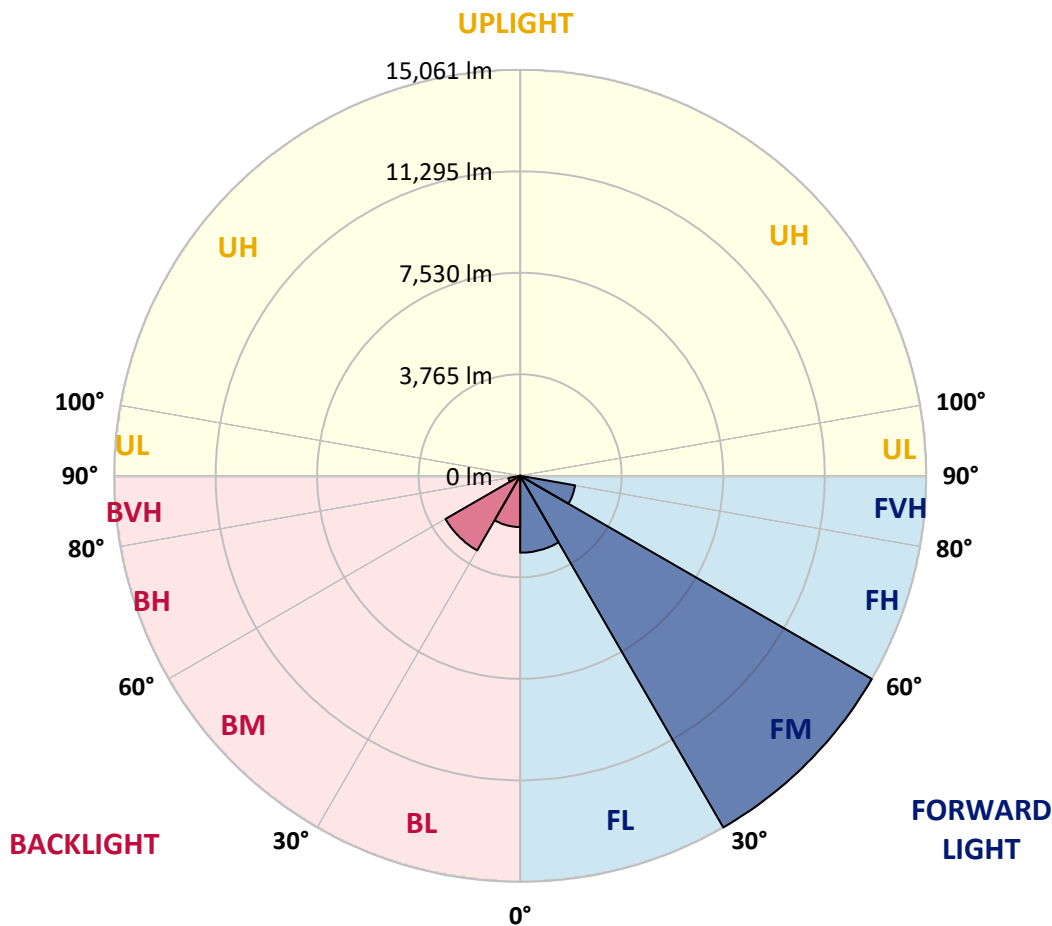
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2852.1	11.2			
FM (30°-60°)	15060.6	58.9			
FH (60°-80°)	2069.4	8.1			G2/5000
FVH (80°-90°)	19.9	0.1			G1/100
BL (0°-30°)	1900.1	7.4	B3/2500		
BM (30°-60°)	3197.5	12.5	B3/5000		
BH (60°-80°)	441.7	1.7	B1/500		G1/500
BVH (80°-90°)	19.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2
2.5°	4970.6	4947.3	4947.3	4910.1	4952.0	4933.4	4947.3	4900.8	4947.3	4877.5	4933.4
5°	4993.9	4998.5	4979.9	5003.2	5003.2	5031.1	4984.6	5026.4	5049.7	4998.5	4975.2
7.5°	5114.9	5124.2	5119.5	5100.9	5138.1	5133.5	5128.8	5096.3	5105.6	5086.9	5059.0
10°	5352.2	5347.6	5370.8	5324.3	5296.4	5329.0	5338.3	5287.1	5249.8	5235.9	5147.4
12.5°	5696.6	5640.8	5608.2	5561.7	5575.6	5529.1	5612.9	5524.4	5505.8	5422.0	5333.6
15°	5975.9	5966.6	5971.2	5896.8	5813.0	5831.6	5831.6	5785.1	5757.1	5654.7	5529.1
17.5°	6548.3	6352.9	6394.7	6301.7	6231.9	6227.2	6185.3	6194.6	6120.2	5906.1	5715.2
20°	6995.1	6911.4	6846.2	6688.0	6580.9	6613.5	6594.9	6548.3	6525.1	6245.8	5975.9
22.5°	7395.4	7423.3	7316.3	7274.4	7125.4	7139.4	7176.6	7134.8	6957.9	6669.3	6269.1
25°	7958.5	7926.0	7781.7	7730.5	7590.9	7642.0	7786.3	7753.7	7642.0	7120.8	6497.1
27.5°	8624.1	8512.4	8540.3	8307.6	8172.6	8316.9	8489.1	8652.0	8335.5	7651.4	6767.1
30°	9094.1	8977.8	8968.5	8959.2	8926.6	9094.1	9294.3	9443.2	9187.2	8181.9	7213.9
32.5°	9326.8	9354.8	9433.9	9406.0	9689.9	10034.3	10243.7	10457.8	10136.7	9047.6	7804.9
35°	9945.8	9769.0	9945.8	9964.5	10257.7	10988.4	11253.6	11765.6	11686.5	10271.6	8526.3
37.5°	10308.9	10294.9	10318.2	10495.0	10778.9	11681.8	12058.8	12454.4	12305.5	11007.0	9424.6
40°	10909.2	10946.5	10941.8	11076.8	11388.6	12203.1	12356.7	12677.8	12691.8	12026.2	10746.3
42.5°	11872.6	11723.7	11626.0	11765.6	12203.1	12654.5	12961.7	12896.5	13357.3	13264.2	12445.1
45°	12738.3	12826.7	12682.5	12915.2	13073.4	13315.4	13306.1	13445.7	14032.1	14474.3	13725.0
47.5°	13548.1	13604.0	13673.8	13832.0	14176.4	14213.7	14134.5	14074.0	14883.8	15339.9	14716.3
50°	14032.1	14083.3	14409.1	14693.0	15335.3	15419.1	15465.6	15312.0	15861.2	15912.4	15651.8
52.5°	13901.8	13957.7	14413.8	15349.3	16373.2	17141.1	17001.5	16740.8	16708.3	16908.4	16517.4
55°	12747.6	12696.4	13324.7	14781.5	16698.9	18542.0	18560.6	18286.0	17760.1	17625.1	16387.1
56°	11765.6	11565.5	12366.0	14125.2	16280.1	18421.0	18630.4	18337.2	17843.9	17238.8	15582.0
57.5°	9638.7	9829.5	10625.3	12082.1	14832.7	17550.7	17671.7	17601.8	17229.5	16214.9	13711.0
60°	5315.0	5650.1	6352.9	8135.4	10560.2	13469.0	13566.7	14134.5	14204.3	12417.2	9433.9
62.5°	2257.2	2220.0	2950.7	4263.2	6013.1	8130.7	8312.2	8894.0	9001.0	7158.0	4733.2
65°	916.9	968.1	1335.7	2145.5	3178.8	3704.7	3960.6	4151.5	4505.2	2955.4	1745.3
67.5°	605.0	600.4	786.5	1224.0	1712.7	1652.2	1652.2	1745.3	1615.0	1205.4	754.0
70°	432.8	446.8	563.1	847.0	1065.8	791.2	758.6	726.0	823.8	795.9	609.7
72.5°	283.9	302.5	377.0	507.3	553.8	432.8	432.8	521.3	679.5	642.3	498.0
75°	186.2	190.8	232.7	293.2	274.6	223.4	246.7	349.1	493.3	474.7	353.7
77.5°	125.7	130.3	158.2	190.8	153.6	125.7	135.0	176.9	242.0	242.0	186.2
80°	46.5	51.2	65.2	60.5	69.8	88.4	97.7	121.0	144.3	144.3	125.7
82.5°	0.0	4.7	14.0	32.6	51.2	69.8	79.1	93.1	107.0	121.0	116.4
85°	0.0	4.7	14.0	23.3	37.2	41.9	46.5	32.6	27.9	27.9	23.3
87.5°	0.0	0.0	4.7	4.7	4.7	4.7	4.7	4.7	9.3	4.7	4.7
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°	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2	4882.2
2.5°	4882.2	4877.5	4877.5	4863.5	4891.5	4877.5	4886.8	4882.2	4821.7	4868.2	4835.6
5°	4933.4	4965.9	4914.7	4905.4	4868.2	4882.2	4882.2	4835.6	4877.5	4872.9	4863.5
7.5°	5063.7	5007.8	4952.0	4896.1	4886.8	4872.9	4821.7	4803.0	4835.6	4798.4	4854.2
10°	5119.5	5128.8	5045.1	4970.6	4900.8	4803.0	4733.2	4691.3	4640.1	4696.0	4728.6
12.5°	5375.5	5282.4	5138.1	5021.8	4784.4	4686.7	4616.9	4598.3	4686.7	4705.3	4672.7
15°	5463.9	5450.0	5263.8	5003.2	4756.5	4640.1	4654.1	4616.9	4626.2	4579.6	4589.0
17.5°	5645.4	5487.2	5268.5	4942.7	4751.8	4723.9	4640.1	4491.2	4407.4	4370.2	4402.8
20°	5845.6	5692.0	5375.5	4965.9	4793.7	4719.3	4444.7	4263.2	4091.0	3997.9	4002.5
22.5°	6022.4	5831.6	5329.0	4975.2	4831.0	4523.8	4193.4	3835.0	3620.9	3476.6	3481.3
25°	6236.5	5966.6	5347.6	4993.9	4733.2	4212.0	3737.3	3388.2	3132.2	3034.5	3067.1
27.5°	6357.5	6050.3	5450.0	5035.7	4477.3	3769.8	3257.9	2932.1	2783.2	2736.6	2732.0
30°	6720.5	6236.5	5575.6	4952.0	4049.1	3295.1	2820.4	2620.3	2476.0	2434.1	2443.4
32.5°	7260.4	6576.3	5738.5	4733.2	3611.6	2871.6	2536.5	2387.6	2252.6	2173.5	2164.2
35°	7711.9	7158.0	5910.7	4393.5	3104.3	2545.8	2336.4	2150.2	1945.4	1857.0	1833.7
37.5°	8572.9	7814.3	5873.5	3881.5	2620.3	2303.8	2122.3	1894.2	1717.4	1596.4	1582.4
40°	9717.8	8582.2	5692.0	3257.9	2261.9	2089.7	1894.2	1675.5	1456.7	1354.3	1345.0
42.5°	11109.4	9522.3	5361.5	2624.9	1903.5	1875.6	1698.8	1447.4	1252.0	1177.5	1182.1
45°	12240.3	10327.5	5026.4	2108.3	1638.2	1666.2	1512.6	1275.2	1140.3	1079.8	1079.8
47.5°	13245.6	10872.0	4663.4	1740.6	1391.6	1456.7	1321.8	1182.1	1065.8	1019.3	1009.9
50°	14213.7	11425.8	4300.4	1410.2	1186.8	1252.0	1238.0	1126.3	1033.2	977.4	982.0
52.5°	14818.7	11514.3	3839.6	1154.2	1037.9	1112.3	1158.9	1056.5	954.1	921.5	912.2
55°	14078.7	10374.0	2978.6	949.4	879.6	977.4	1065.8	949.4	870.3	814.5	809.8
56°	13082.7	9275.6	2489.9	875.0	833.1	940.1	1033.2	907.6	819.1	786.5	763.3
57.5°	11076.8	7590.9	1838.4	777.2	772.6	875.0	982.0	865.7	763.3	735.3	735.3
60°	6906.7	4272.5	1112.3	651.6	670.2	777.2	884.3	772.6	679.5	679.5	693.5
62.5°	3146.2	1777.9	674.8	553.8	577.1	670.2	786.5	698.1	646.9	698.1	707.4
65°	1070.4	767.9	488.7	442.1	456.1	553.8	674.8	707.4	702.8	735.3	754.0
67.5°	600.4	493.3	409.6	367.7	358.4	409.6	553.8	707.4	679.5	665.5	674.8
70°	507.3	418.9	363.0	325.8	311.8	330.4	428.2	535.2	479.4	465.4	456.1
72.5°	409.6	349.1	316.5	293.2	251.3	214.1	195.5	204.8	228.1	242.0	265.3
75°	288.6	265.3	265.3	237.4	181.5	135.0	107.0	88.4	60.5	41.9	46.5
77.5°	162.9	162.9	167.5	144.3	116.4	88.4	65.2	46.5	23.3	9.3	4.7
80°	111.7	121.0	130.3	116.4	97.7	79.1	55.8	32.6	14.0	0.0	0.0
82.5°	111.7	125.7	135.0	116.4	97.7	74.5	55.8	32.6	14.0	4.7	0.0
85°	23.3	27.9	32.6	37.2	55.8	55.8	41.9	27.9	14.0	4.7	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	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)