

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: P647548

Luminaire Tested: **GALN-SA7D-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24672.3 lumens  
Efficiency: N/A  
Efficacy: 57.0 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

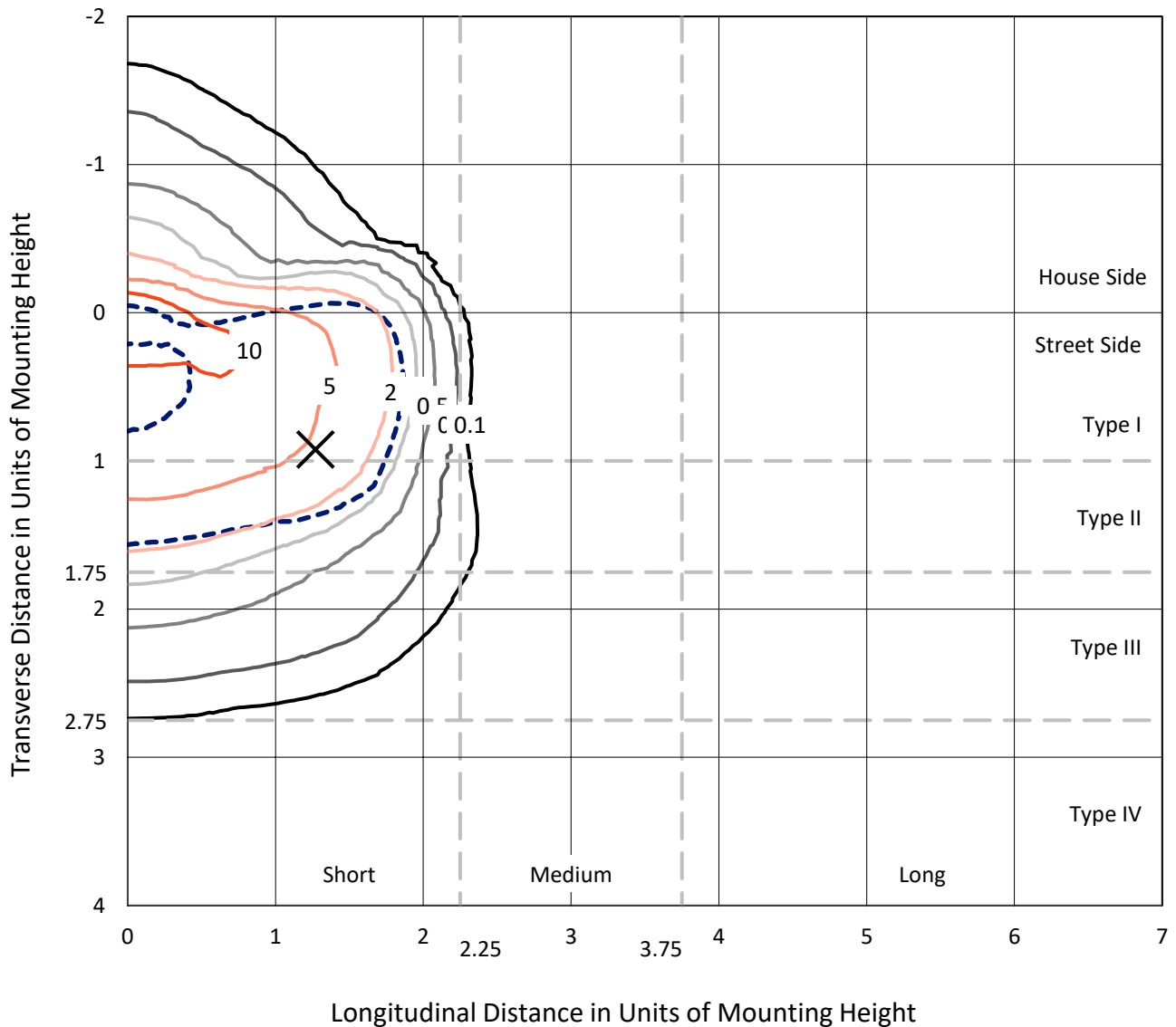
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

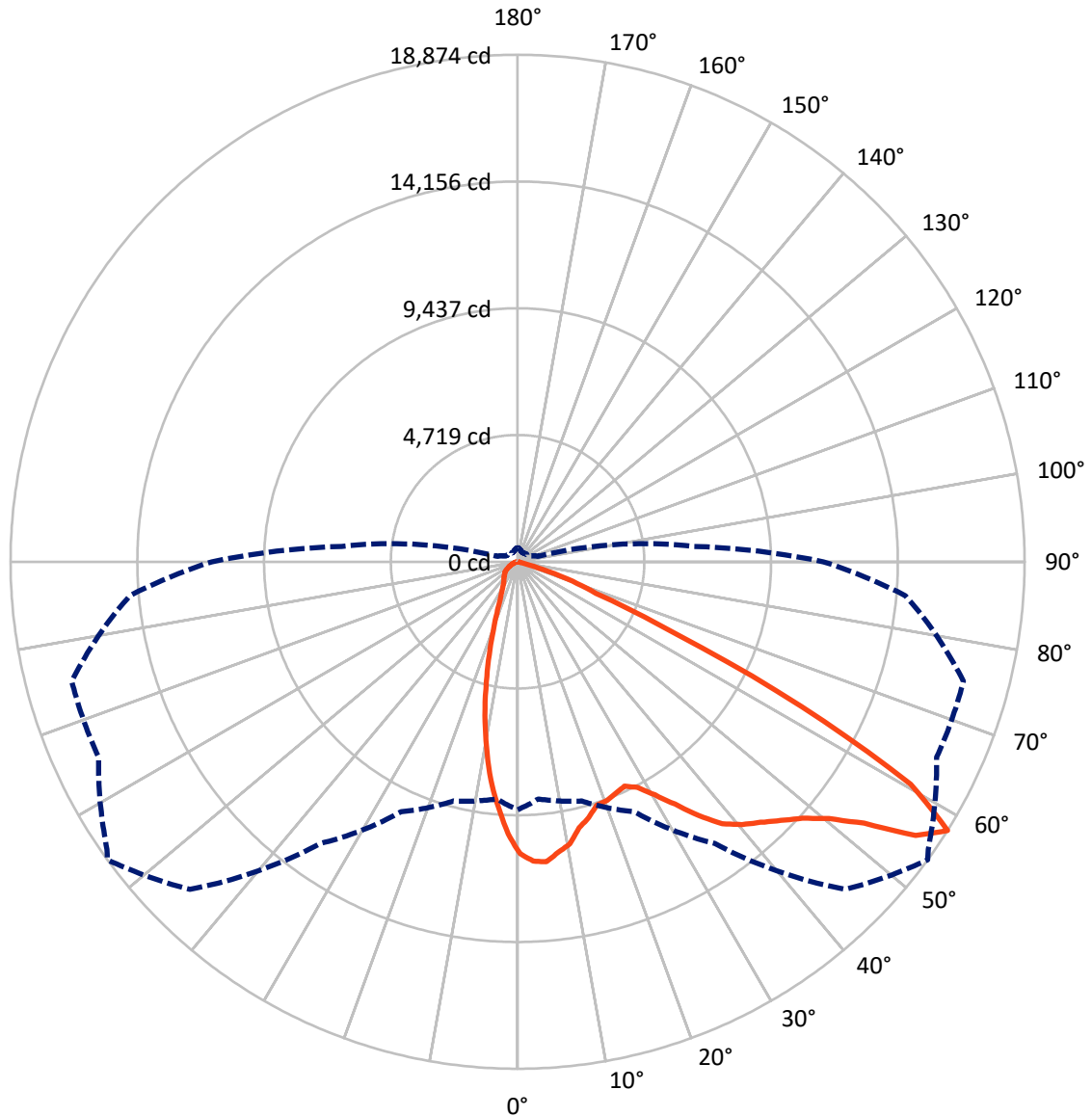
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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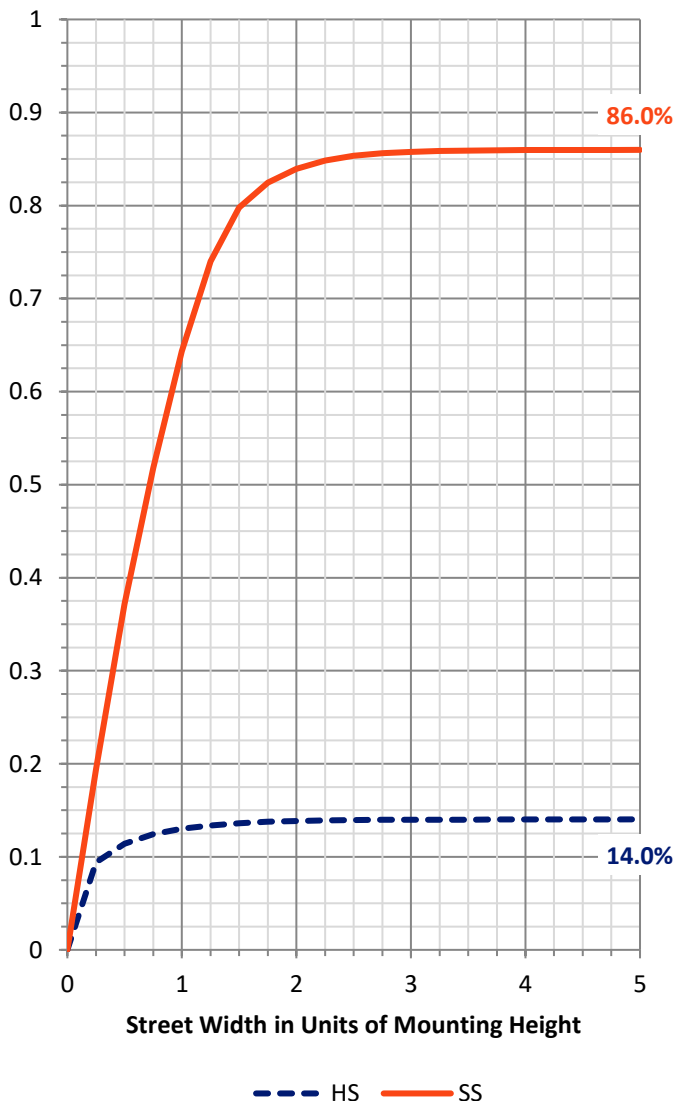
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3486.6	0.0	3486.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	21185.7	0.0	21185.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	24672.3	0.0	24672.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	909.5	3.7
10°-20°	1941.8	7.9
20°-30°	2573.2	10.4
30°-40°	3739.6	15.2
40°-50°	5545.3	22.5
50°-60°	6934.2	28.1
60°-70°	2735.2	11.1
70°-80°	272.3	1.1
80°-90°	21.2	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°	24672.3	100.0
0°-180°	24672.3	100.0



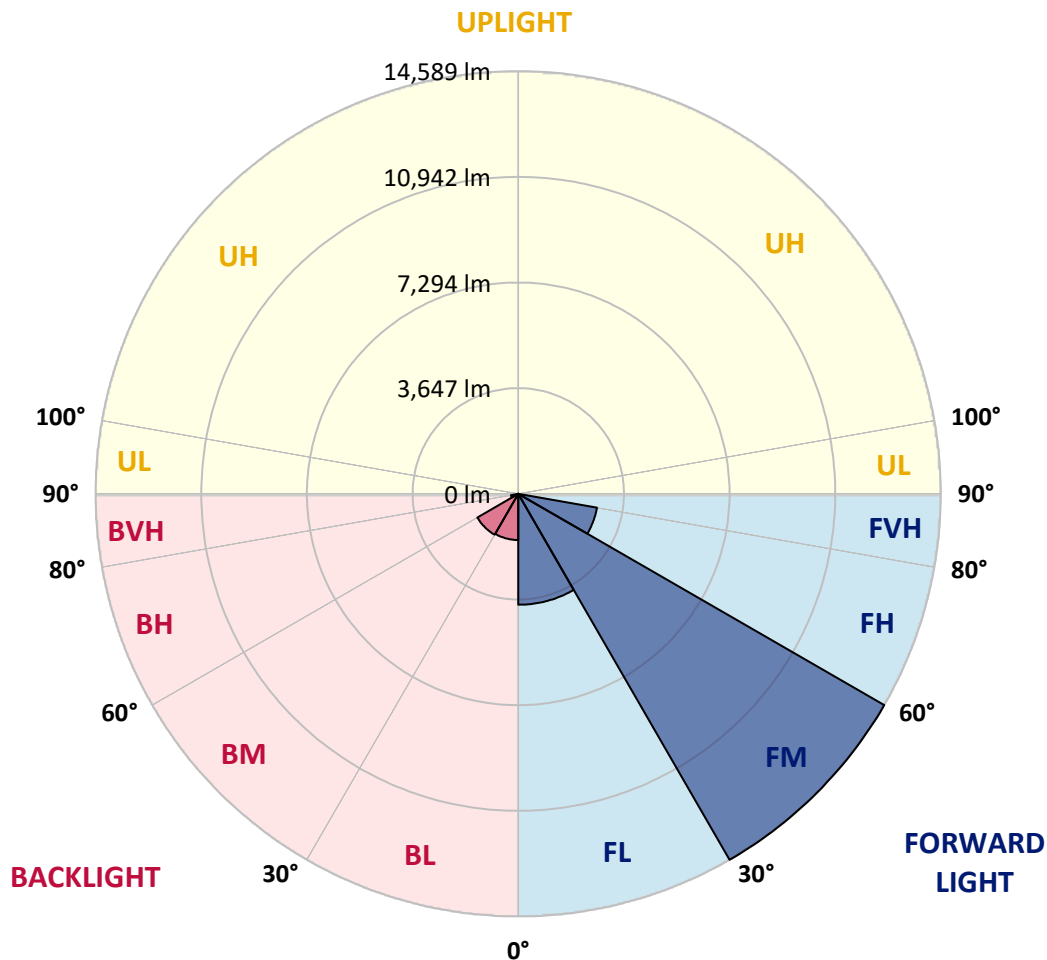
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3829.9	15.5			
FM (30°-60°)	14588.7	59.1			
FH (60°-80°)	2757.5	11.2			G2/5000
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	1594.6	6.5	B3/2500		
BM (30°-60°)	1630.4	6.6	B2/2500		
BH (60°-80°)	250.0	1.0	B1/500		G1/500
BVH (80°-90°)	11.6	0.0			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°	54°	55°	65°	75°	85°
0°	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5
2.5°	11501.6	11382.3	11391.5	11350.2	11295.2	11336.4	11157.5	11198.8	11194.2	10951.0	10790.5
5°	11212.6	11341.1	11208.0	11318.1	11212.6	11327.3	11217.2	11134.6	11001.5	10822.6	10524.4
7.5°	10721.7	10597.8	10634.5	10772.1	10795.1	11052.0	10914.4	11019.9	10964.8	10611.6	10203.3
10°	9735.3	9707.8	9891.3	10074.8	10299.6	10574.9	10680.4	10620.8	10579.4	10446.4	9900.5
12.5°	8978.3	9056.3	9051.7	9354.5	9735.3	9891.3	10166.6	10157.4	10386.8	10139.1	9616.0
15°	8258.1	8299.3	8492.0	8680.1	9102.2	9547.2	9886.7	9932.6	10207.8	10033.5	9395.8
17.5°	7817.6	7758.0	7909.4	8134.2	8565.4	9148.1	9524.3	9634.3	10010.6	9973.9	9143.5
20°	7381.7	7381.7	7505.6	7771.7	8166.3	8822.4	9492.2	9460.0	10010.6	9905.0	8872.8
22.5°	7234.9	7308.4	7340.5	7542.3	8010.3	8574.6	9354.5	9414.2	10088.6	9872.9	8753.5
25°	7436.9	7340.5	7349.6	7510.2	7950.7	8455.3	9253.6	9386.6	10230.8	10033.5	8657.2
27.5°	7469.0	7565.3	7592.8	7702.9	7996.5	8492.0	9505.9	9776.6	10584.0	10409.8	8684.7
30°	7748.8	7845.1	7840.6	8028.6	8230.5	8790.2	10070.2	10125.3	11313.5	10882.3	8854.5
32.5°	8088.3	8189.2	8221.3	8441.5	8602.1	9336.2	10758.4	10900.6	12015.4	11625.5	9299.5
35°	8510.3	8473.6	8620.4	8840.7	9184.7	10134.4	11598.0	11836.5	12772.5	12588.9	9758.2
37.5°	9037.9	8992.1	9134.3	9492.2	9960.1	11079.5	12373.3	12529.3	13323.0	13483.6	10607.0
40°	9409.5	9427.9	9859.1	10340.9	10836.4	11978.7	12864.2	13015.6	13708.4	14318.5	11249.3
42.5°	10028.9	10143.6	10662.0	11249.3	11767.7	12653.1	13263.3	13410.1	13887.3	14988.3	12116.4
45°	10928.1	10877.7	11451.1	12107.2	12680.7	13355.1	13735.9	13685.4	13992.8	15653.6	12662.3
47.5°	12084.3	12093.4	12474.2	13033.9	13630.4	13965.3	14263.4	14084.5	14213.0	16355.5	13391.8
50°	12873.4	12942.2	13249.5	13823.0	14121.2	14635.1	15015.8	14905.7	14864.5	16777.6	13850.6
52.5°	13075.2	13281.6	13446.9	14162.5	14859.9	15671.9	16158.2	16392.2	15658.1	16919.8	14433.2
55°	11552.1	11735.6	12318.2	13300.0	15139.7	17314.3	17984.2	17988.7	16695.0	17552.9	14841.5
57.5°	9235.3	8863.6	9221.5	10262.9	12799.9	17245.5	18874.2	18658.6	17213.4	17181.3	14488.2
60°	6386.2	6294.5	6317.4	6730.3	8859.0	13717.5	16818.8	17098.7	15850.8	14892.0	11469.5
62.5°	5060.4	4982.4	4881.4	4835.6	5500.7	8547.1	11864.0	12258.6	11084.1	9657.3	6799.1
65°	3963.9	3918.0	3931.8	4115.3	4110.7	4849.3	6487.2	6326.6	5064.9	3743.7	2137.9
67.5°	2674.6	2743.5	2798.5	3353.7	3638.1	3376.6	3133.5	3041.7	1647.0	692.7	472.5
70°	1504.8	1514.0	1573.6	2096.6	2761.9	2619.6	2160.8	2160.8	821.2	252.4	270.7
72.5°	821.2	793.7	738.6	903.8	1229.5	1247.9	963.4	839.5	243.1	165.1	151.4
75°	399.2	394.6	339.5	279.8	266.1	220.2	169.8	156.0	110.1	105.5	91.8
77.5°	82.6	78.0	41.3	41.3	45.9	50.5	64.2	64.2	78.0	78.0	64.2
80°	0.0	0.0	4.6	18.3	32.1	45.9	55.0	55.0	64.2	64.2	50.5
82.5°	0.0	0.0	4.6	13.8	27.6	41.3	50.5	55.0	64.2	68.8	55.0
85°	0.0	0.0	0.0	9.2	22.9	32.1	27.6	27.6	22.9	18.3	9.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5	10868.5
2.5°	10707.9	10698.8	10487.7	10368.4	10152.8	9964.7	9813.3	9703.2	9703.2	9634.3	9570.1
5°	10405.1	10327.1	9877.5	9588.5	9180.2	8877.4	8670.9	8510.3	8258.1	8326.9	8056.2
7.5°	10028.9	9831.7	9235.3	8794.8	8230.5	7799.2	7358.8	6968.9	6592.7	6422.9	6514.6
10°	9625.2	9281.1	8478.2	7780.9	7078.9	6289.8	5776.0	5152.1	4766.7	4743.8	4642.9
12.5°	9198.5	8808.6	7831.4	6867.9	5945.8	4996.1	4211.6	3629.0	3367.4	3078.4	3133.5
15°	8877.4	8299.3	7111.0	5950.4	4725.4	3766.5	2977.5	2527.9	2280.2	2211.3	2188.4
17.5°	8528.7	7909.4	6377.1	4973.1	3707.0	2711.4	2142.5	1926.9	1830.5	1830.5	1816.8
20°	8166.3	7469.0	5647.5	4064.8	2780.2	2023.2	1715.9	1647.0	1642.4	1637.9	1637.9
22.5°	7927.7	6964.3	4986.9	3229.8	2096.6	1619.5	1491.1	1463.5	1481.8	1537.0	1537.0
25°	7675.4	6478.0	4257.5	2491.2	1624.1	1390.1	1316.7	1335.0	1380.9	1431.4	1413.1
27.5°	7418.5	6161.4	3569.3	1954.4	1330.5	1215.8	1188.2	1229.5	1280.0	1325.9	1312.1
30°	7358.8	5821.9	2917.8	1481.8	1142.4	1059.8	1078.1	1114.8	1165.3	1183.7	1202.0
32.5°	7450.6	5555.9	2390.3	1215.8	995.6	972.6	972.6	991.0	1023.1	1064.3	1050.6
35°	7712.1	5404.4	1890.2	1055.2	913.0	890.0	885.4	903.8	922.1	935.9	922.1
37.5°	8111.3	5285.2	1546.1	935.9	857.9	821.2	812.0	807.4	825.8	830.4	839.5
40°	8620.4	5349.4	1312.1	862.5	802.9	761.5	734.1	734.1	734.1	747.8	752.4
42.5°	9171.0	5436.5	1133.2	821.2	752.4	702.0	674.4	665.2	674.4	692.7	688.2
45°	9749.1	5606.3	1018.5	757.0	706.5	642.3	605.6	596.4	619.4	656.1	651.5
47.5°	10290.4	5849.5	931.3	715.7	660.6	601.0	555.1	546.0	587.2	637.7	642.3
50°	10831.8	6271.5	899.2	683.6	628.5	559.7	518.4	509.3	555.1	619.4	633.1
52.5°	11455.8	6725.7	876.3	642.3	591.8	527.6	481.7	472.5	523.0	605.6	610.2
55°	11864.0	7111.0	857.9	568.8	523.0	477.2	440.4	435.8	490.9	564.3	582.6
57.5°	11386.9	6574.3	793.7	495.5	445.0	422.1	389.9	389.9	435.8	504.6	518.4
60°	8634.2	4326.3	564.3	399.2	376.2	362.5	348.7	348.7	385.4	435.8	440.4
62.5°	5055.8	2330.6	362.5	321.1	321.1	307.4	284.5	284.5	321.1	348.7	353.3
65°	1500.2	747.8	293.6	275.3	270.7	247.7	224.8	220.2	247.7	261.5	256.9
67.5°	431.3	344.1	243.1	229.4	224.8	188.1	174.4	169.8	174.4	165.1	160.6
70°	256.9	234.0	188.1	192.7	169.8	137.7	123.9	119.3	110.1	96.3	87.1
72.5°	142.2	142.2	137.7	146.8	119.3	91.8	78.0	64.2	50.5	41.3	36.7
75°	87.1	91.8	96.3	100.9	78.0	59.7	50.5	32.1	18.3	9.2	9.2
77.5°	59.7	64.2	68.8	73.4	64.2	55.0	41.3	22.9	4.6	0.0	0.0
80°	45.9	50.5	59.7	64.2	68.8	73.4	55.0	22.9	4.6	0.0	0.0
82.5°	50.5	55.0	68.8	64.2	64.2	64.2	50.5	22.9	4.6	0.0	0.0
85°	9.2	13.8	22.9	22.9	32.1	41.3	32.1	9.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)