

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: P531483

Luminaire Tested: **GALN-SA6D-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531483  
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-SA6D-735-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 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: 24991 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

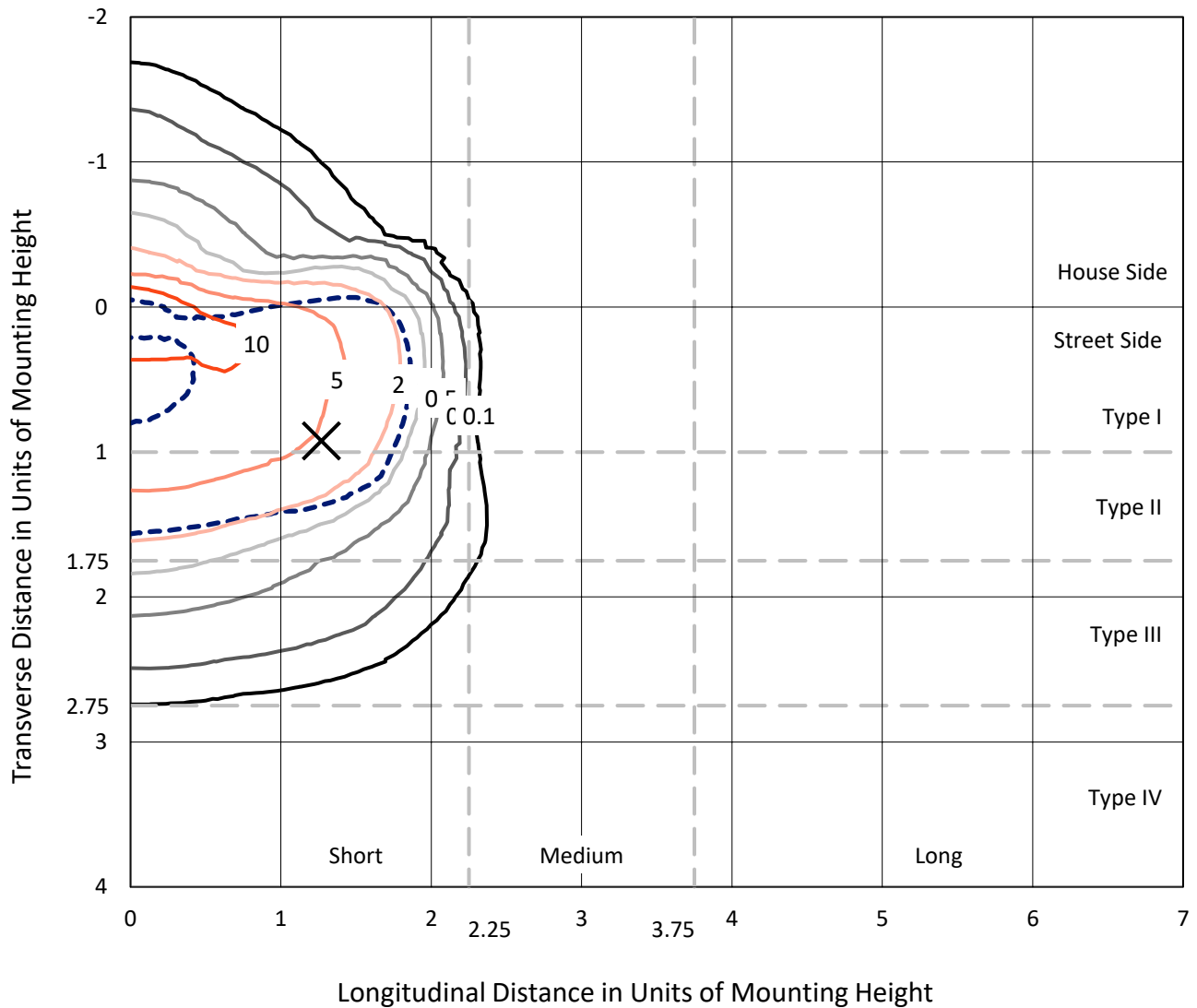
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

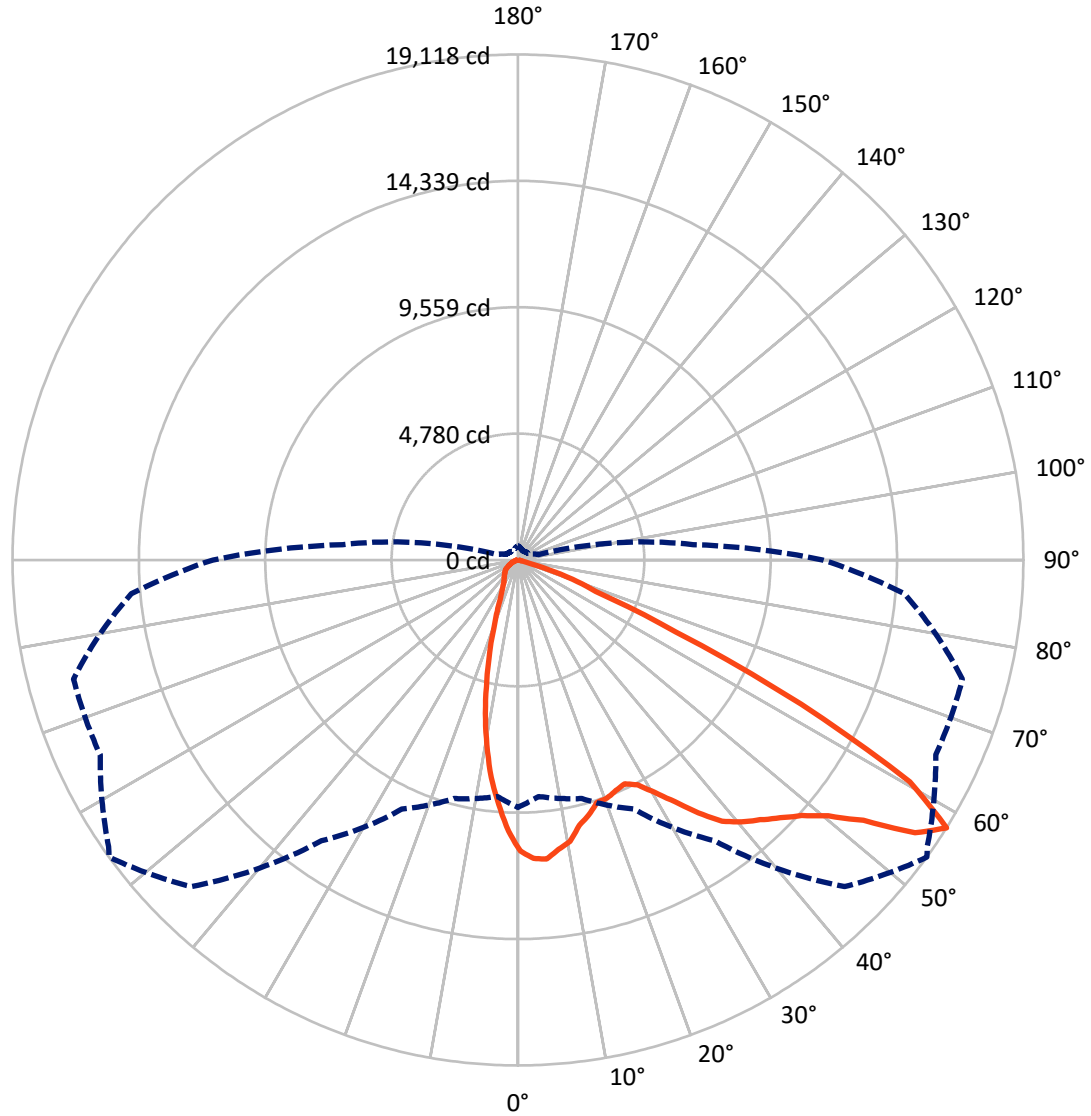
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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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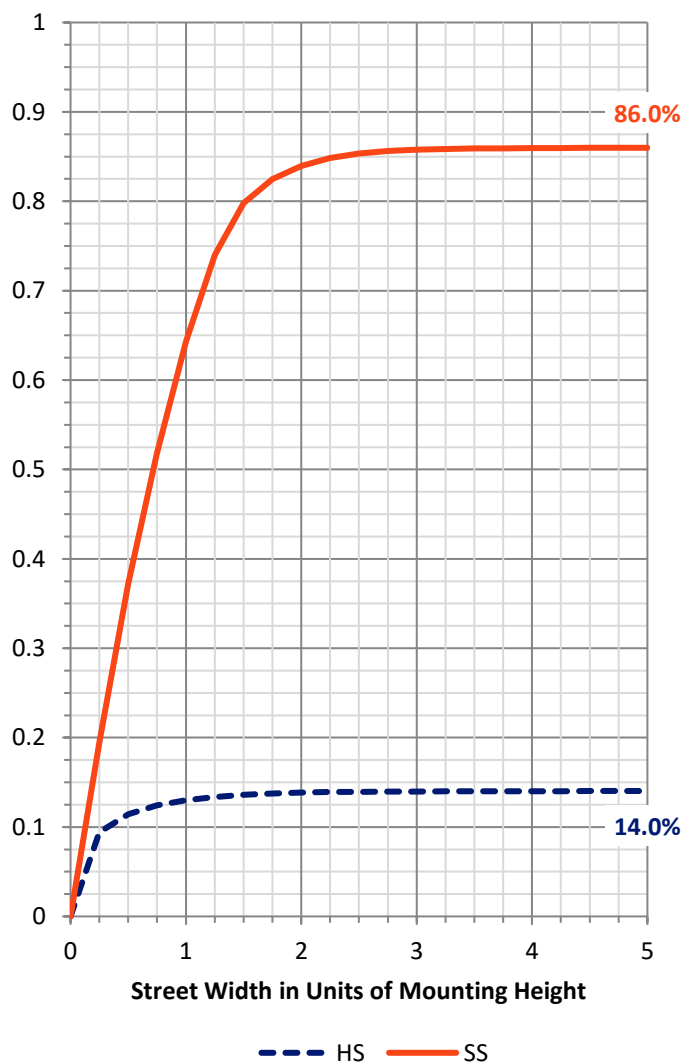
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3531.6	0.0	3531.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	21459.3	0.0	21459.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	24991.0	0.0	24991.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	921.2	3.7
10°-20°	1966.8	7.9
20°-30°	2606.5	10.4
30°-40°	3787.9	15.2
40°-50°	5617.0	22.5
50°-60°	7023.8	28.1
60°-70°	2770.5	11.1
70°-80°	275.9	1.1
80°-90°	21.4	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°	24991.0	100.0
0°-180°	24991.0	100.0

**Coefficient of Utilization**



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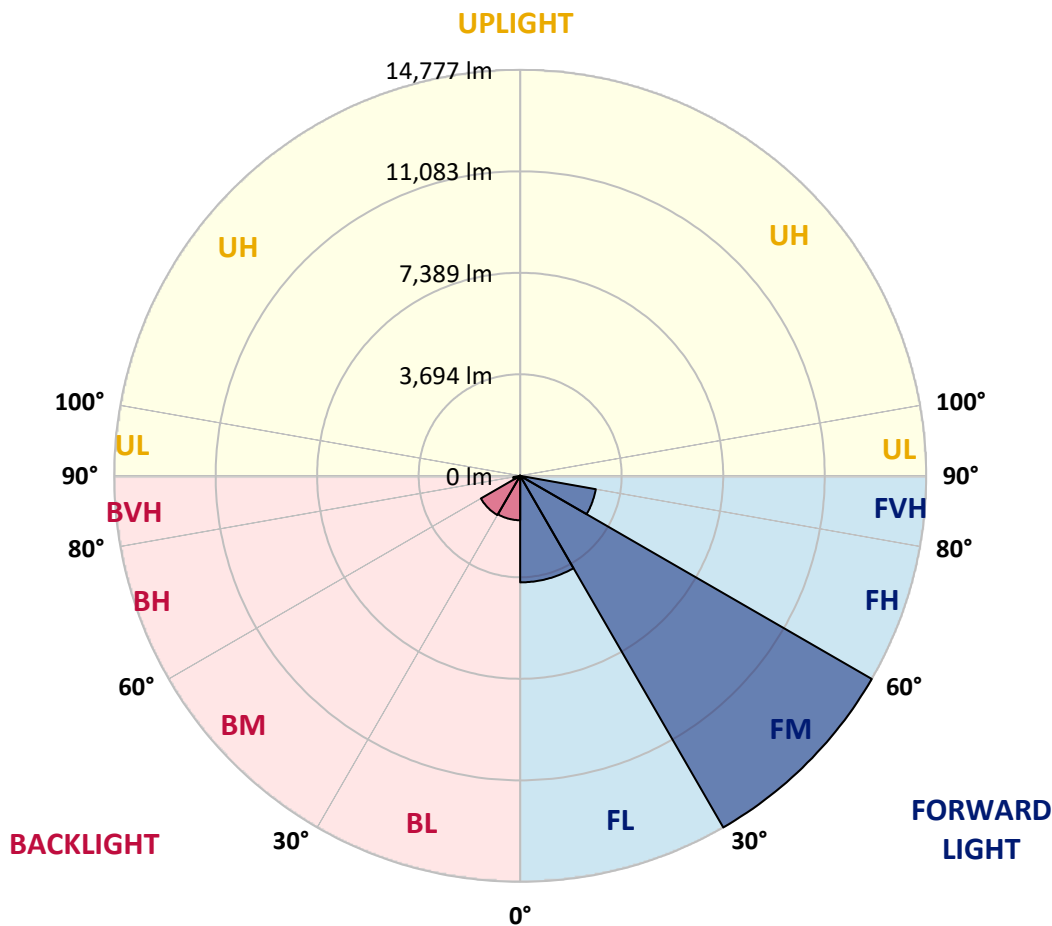
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3879.3	15.5			
FM (30°-60°)	14777.1	59.1			
FH (60°-80°)	2793.2	11.2			G2/5000
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	1615.2	6.5	B3/2500		
BM (30°-60°)	1651.5	6.6	B2/2500		
BH (60°-80°)	253.2	1.0	B1/500		G1/500
BVH (80°-90°)	11.7	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°	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9
2.5°	11650.2	11529.3	11538.6	11496.8	11441.0	11482.9	11301.6	11343.5	11338.8	11092.5	10929.9
5°	11357.4	11487.5	11352.8	11464.3	11357.4	11473.6	11362.0	11278.4	11143.6	10962.4	10660.3
7.5°	10860.2	10734.7	10771.9	10911.3	10934.5	11194.8	11055.3	11162.2	11106.5	10748.6	10335.0
10°	9861.0	9833.2	10019.0	10204.9	10432.6	10711.5	10818.3	10757.9	10716.1	10581.3	10028.3
12.5°	9094.3	9173.3	9168.6	9475.3	9861.0	10019.0	10297.9	10288.6	10520.9	10270.0	9740.2
15°	8364.7	8406.5	8601.7	8792.2	9219.8	9670.5	10014.4	10060.9	10339.7	10163.1	9517.2
17.5°	7918.6	7858.2	8011.5	8239.2	8676.1	9266.2	9647.3	9758.8	10139.9	10102.7	9261.6
20°	7477.1	7477.1	7602.6	7872.1	8271.8	8936.3	9614.8	9582.2	10139.9	10033.0	8987.4
22.5°	7328.4	7402.8	7435.3	7639.8	8113.8	8685.3	9475.3	9535.8	10218.9	10000.5	8866.6
25°	7532.9	7435.3	7444.6	7607.2	8053.3	8564.5	9373.1	9507.9	10362.9	10163.1	8769.0
27.5°	7565.4	7663.0	7690.9	7802.4	8099.8	8601.7	9628.7	9902.9	10720.8	10544.2	8796.9
30°	7848.9	7946.5	7941.8	8132.3	8336.8	8903.8	10200.3	10256.0	11459.6	11022.8	8968.8
32.5°	8192.8	8295.0	8327.5	8550.6	8713.2	9456.8	10897.3	11041.4	12170.6	11775.6	9419.6
35°	8620.3	8583.1	8731.8	8954.9	9303.4	10265.3	11747.8	11989.4	12937.4	12751.5	9884.3
37.5°	9154.7	9108.2	9252.3	9614.8	10088.8	11222.6	12533.1	12691.1	13495.0	13657.7	10744.0
40°	9531.1	9549.7	9986.5	10474.5	10976.3	12133.5	13030.3	13183.7	13885.4	14503.5	11394.6
42.5°	10158.5	10274.6	10799.8	11394.6	11919.7	12816.6	13434.6	13583.3	14066.6	15181.9	12272.9
45°	11069.3	11018.2	11599.0	12263.6	12844.5	13527.6	13913.3	13862.2	14173.5	15855.7	12825.9
47.5°	12240.3	12249.6	12635.3	13202.3	13806.4	14145.6	14447.7	14266.5	14396.6	16566.7	13564.8
50°	13039.6	13109.3	13420.7	14001.6	14303.6	14824.1	15209.8	15098.3	15056.5	16994.3	14029.5
52.5°	13244.1	13453.2	13620.5	14345.5	15051.8	15874.3	16366.9	16603.9	15860.4	17138.3	14619.6
55°	11701.3	11887.2	12477.3	13471.8	15335.3	17538.0	18216.5	18221.1	16910.6	17779.6	15033.2
57.5°	9354.5	8978.1	9340.6	10395.5	12965.3	17468.3	19118.0	18899.6	17435.7	17403.2	14675.4
60°	6468.7	6375.8	6399.0	6817.2	8973.5	13894.7	17036.1	17319.6	16055.6	15084.3	11617.6
62.5°	5125.7	5046.7	4944.5	4898.0	5571.8	8657.5	12017.3	12416.9	11227.3	9782.0	6886.9
65°	4015.1	3968.6	3982.5	4168.4	4163.8	4911.9	6570.9	6408.3	5130.3	3792.0	2165.5
67.5°	2709.2	2778.9	2834.7	3397.0	3685.1	3420.2	3173.9	3081.0	1668.3	701.7	478.6
70°	1524.2	1533.5	1593.9	2123.7	2797.5	2653.5	2188.8	2188.8	831.8	255.6	274.2
72.5°	831.8	803.9	748.2	915.5	1245.4	1264.0	975.9	850.4	246.3	167.3	153.4
75°	404.3	399.6	343.9	283.5	269.5	223.1	171.9	158.0	111.5	106.9	92.9
77.5°	83.6	79.0	41.8	41.8	46.5	51.1	65.1	65.1	79.0	79.0	65.1
80°	0.0	0.0	4.6	18.6	32.5	46.5	55.8	55.8	65.1	65.1	51.1
82.5°	0.0	0.0	4.6	13.9	27.9	41.8	51.1	55.8	65.1	69.7	55.8
85°	0.0	0.0	0.0	9.3	23.2	32.5	27.9	27.9	23.2	18.6	9.3
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°	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9	11008.9
2.5°	10846.2	10836.9	10623.2	10502.3	10283.9	10093.4	9940.0	9828.5	9828.5	9758.8	9693.8
5°	10539.5	10460.5	10005.1	9712.3	9298.8	8992.1	8782.9	8620.3	8364.7	8434.4	8160.2
7.5°	10158.5	9958.6	9354.5	8908.4	8336.8	7900.0	7453.9	7058.9	6677.8	6505.9	6598.8
10°	9749.5	9401.0	8587.8	7881.4	7170.4	6371.1	5850.6	5218.6	4828.3	4805.1	4702.8
12.5°	9317.3	8922.3	7932.5	6956.6	6022.6	5060.6	4266.0	3675.8	3410.9	3118.2	3173.9
15°	8992.1	8406.5	7202.9	6027.2	4786.5	3815.2	3015.9	2560.5	2309.6	2239.9	2216.6
17.5°	8638.9	8011.5	6459.4	5037.4	3754.8	2746.4	2170.2	1951.8	1854.2	1854.2	1840.2
20°	8271.8	7565.4	5720.5	4117.3	2816.1	2049.4	1738.0	1668.3	1663.6	1659.0	1659.0
22.5°	8030.1	7054.2	5051.3	3271.5	2123.7	1640.4	1510.3	1482.4	1501.0	1556.8	1556.8
25°	7774.5	6561.6	4312.5	2523.4	1645.1	1408.1	1333.7	1352.3	1398.8	1449.9	1431.3
27.5°	7514.3	6241.0	3615.4	1979.6	1347.6	1231.5	1203.6	1245.4	1296.5	1343.0	1329.1
30°	7453.9	5897.1	2955.5	1501.0	1157.1	1073.5	1092.1	1129.2	1180.4	1198.9	1217.5
32.5°	7546.8	5627.6	2421.1	1231.5	1008.4	985.2	985.2	1003.8	1036.3	1078.1	1064.2
35°	7811.7	5474.2	1914.6	1068.8	924.8	901.5	896.9	915.5	934.1	948.0	934.1
37.5°	8216.0	5353.4	1566.1	948.0	869.0	831.8	822.5	817.9	836.5	841.1	850.4
40°	8731.8	5418.5	1329.1	873.6	813.2	771.4	743.5	743.5	743.5	757.5	762.1
42.5°	9289.5	5506.8	1147.8	831.8	762.1	711.0	683.1	673.8	683.1	701.7	697.1
45°	9875.0	5678.7	1031.6	766.8	715.6	650.6	613.4	604.1	627.4	664.5	659.9
47.5°	10423.3	5925.0	943.4	724.9	669.2	608.8	562.3	553.0	594.8	645.9	650.6
50°	10971.7	6352.5	910.8	692.4	636.6	566.9	525.1	515.8	562.3	627.4	641.3
52.5°	11603.7	6812.6	887.6	650.6	599.5	534.4	487.9	478.6	529.8	613.4	618.1
55°	12017.3	7202.9	869.0	576.2	529.8	483.3	446.1	441.5	497.2	571.6	590.2
57.5°	11534.0	6659.2	803.9	501.9	450.8	427.5	395.0	395.0	441.5	511.2	525.1
60°	8745.8	4382.2	571.6	404.3	381.1	367.1	353.2	353.2	390.4	441.5	446.1
62.5°	5121.1	2360.7	367.1	325.3	325.3	311.4	288.1	288.1	325.3	353.2	357.8
65°	1519.6	757.5	297.4	278.8	274.2	250.9	227.7	223.1	250.9	264.9	260.2
67.5°	436.8	348.5	246.3	232.4	227.7	190.5	176.6	171.9	176.6	167.3	162.6
70°	260.2	237.0	190.5	195.2	171.9	139.4	125.5	120.8	111.5	97.6	88.3
72.5°	144.1	144.1	139.4	148.7	120.8	92.9	79.0	65.1	51.1	41.8	37.2
75°	88.3	92.9	97.6	102.2	79.0	60.4	51.1	32.5	18.6	9.3	9.3
77.5°	60.4	65.1	69.7	74.4	65.1	55.8	41.8	23.2	4.6	0.0	0.0
80°	46.5	51.1	60.4	65.1	69.7	74.4	55.8	23.2	4.6	0.0	0.0
82.5°	51.1	55.8	69.7	65.1	65.1	65.1	51.1	23.2	4.6	0.0	0.0
85°	9.3	13.9	23.2	23.2	32.5	41.8	32.5	9.3	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)