

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: P648538

Luminaire Tested: **GALN-SA7B-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648538  
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-SA7B-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA 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: 18148.4 lumens  
Efficiency: N/A  
Efficacy: 63.5 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

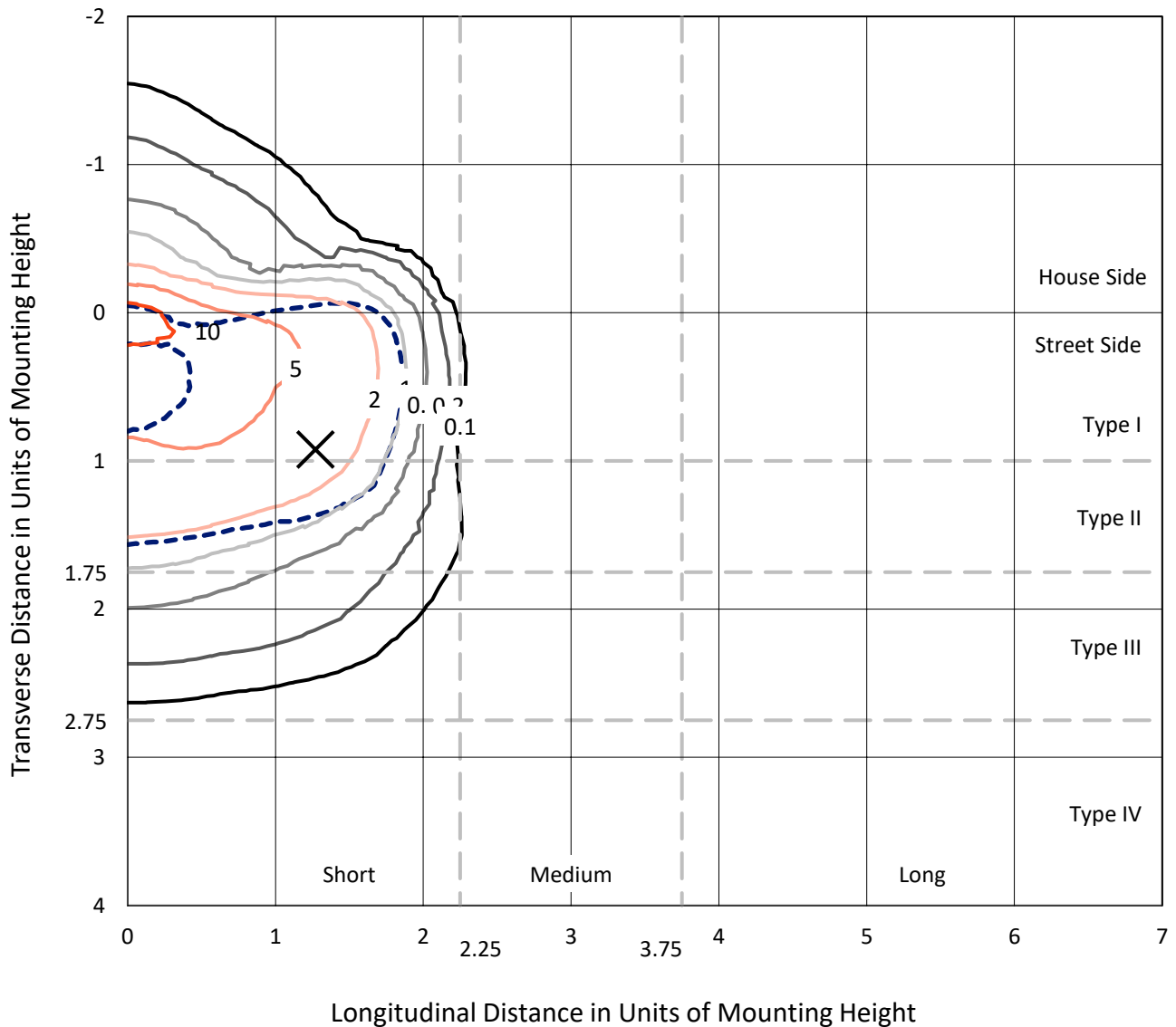
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

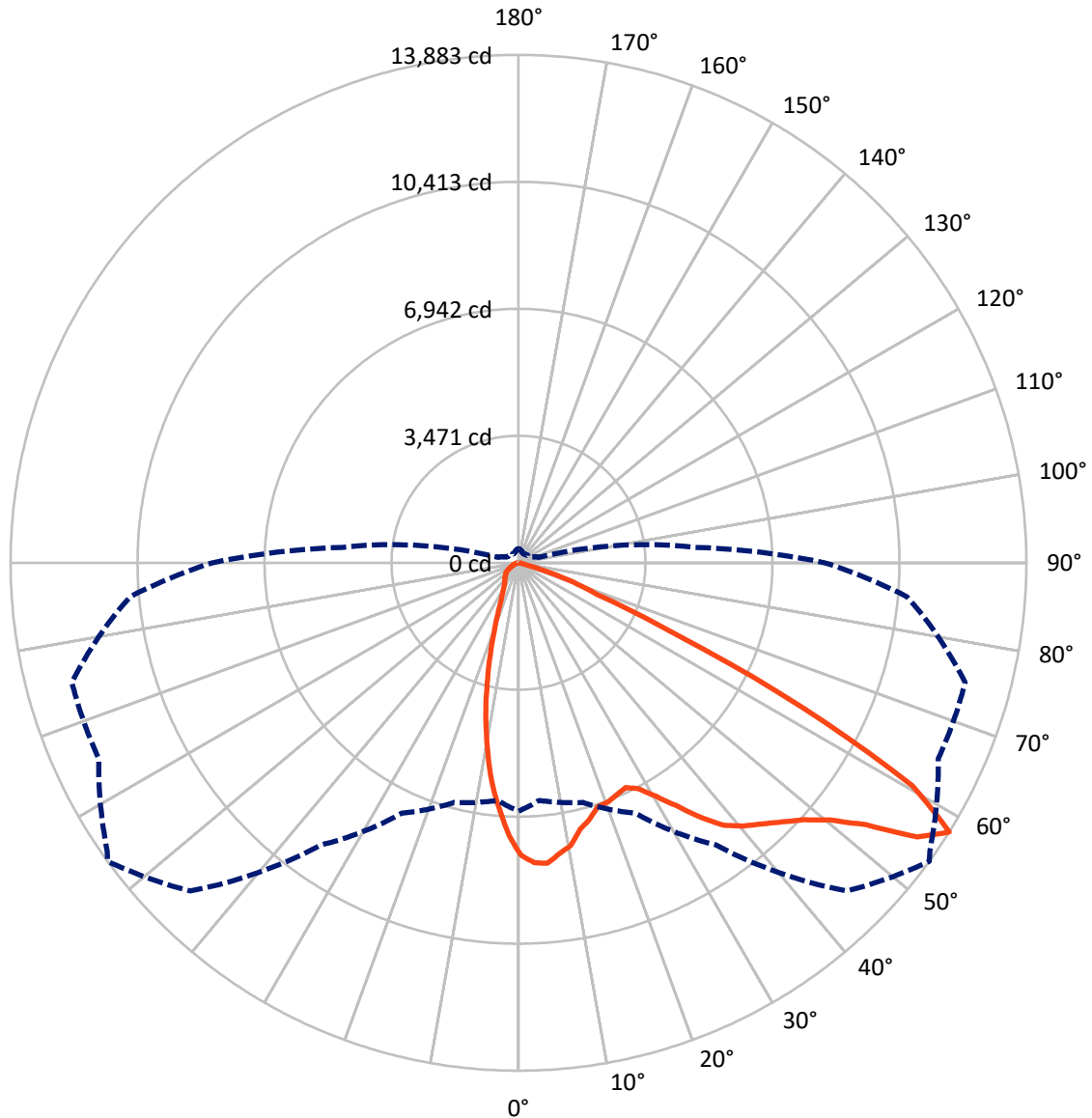
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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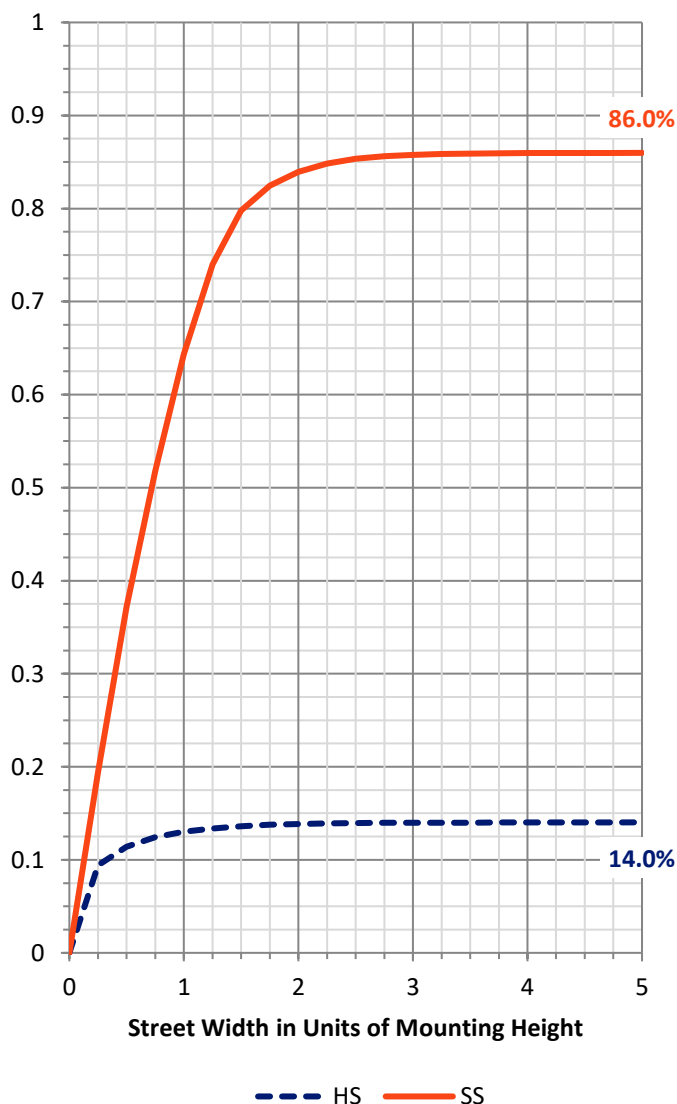
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2564.7	0.0	2564.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	15583.7	0.0	15583.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	18148.4	0.0	18148.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	669.0	3.7
10°-20°	1428.3	7.9
20°-30°	1892.8	10.4
30°-40°	2750.8	15.2
40°-50°	4079.0	22.5
50°-60°	5100.6	28.1
60°-70°	2012.0	11.1
70°-80°	200.3	1.1
80°-90°	15.6	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°	18148.4	100.0
0°-180°	18148.4	100.0

**Coefficient of Utilization**

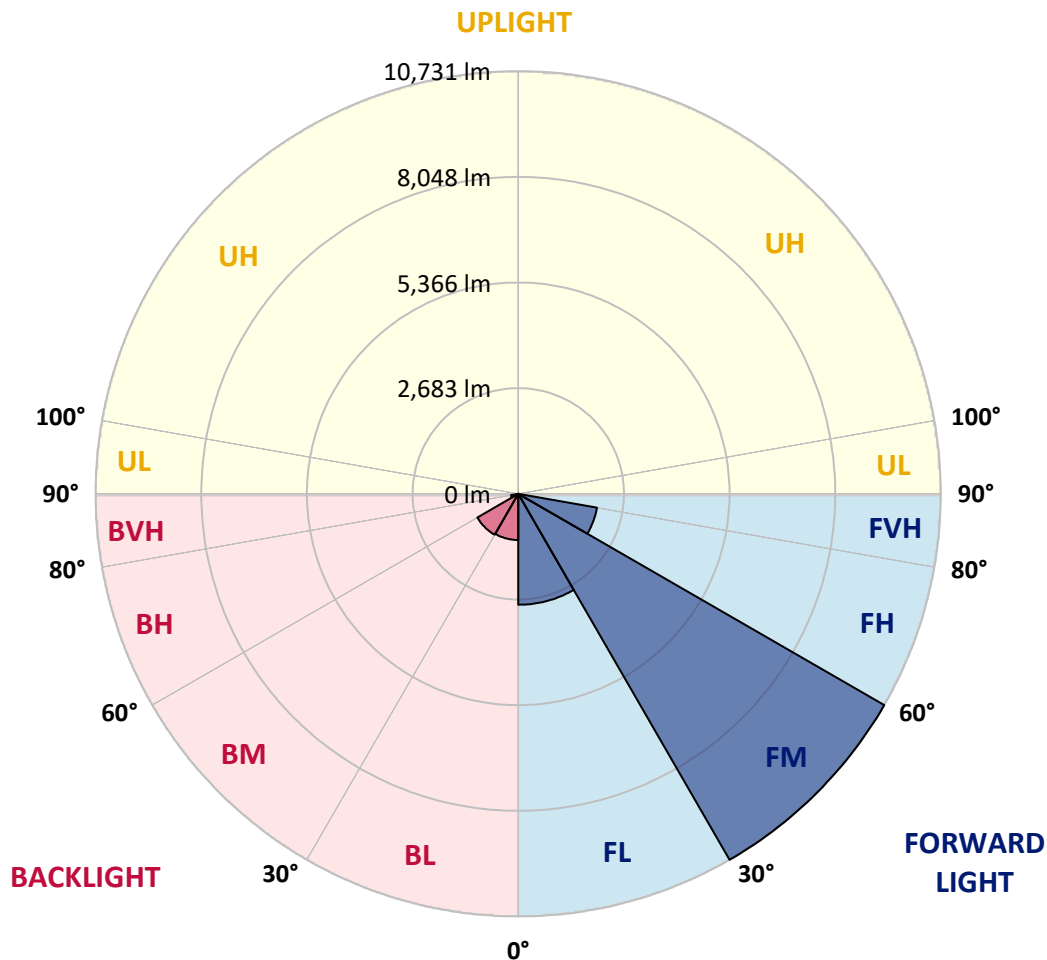


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2817.2	15.5			
FM (30°-60°)	10731.1	59.1			
FH (60°-80°)	2028.4	11.2			G2/5000
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	1173.0	6.5	B3/2500		
BM (30°-60°)	1199.3	6.6	B2/2500		
BH (60°-80°)	183.9	1.0	B1/500		G1/500
BVH (80°-90°)	8.5	0.0			G0/10
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°	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6
2.5°	8460.3	8372.5	8379.4	8349.0	8308.4	8338.8	8207.2	8237.6	8234.2	8055.3	7937.3
5°	8247.7	8342.2	8244.4	8325.3	8247.7	8332.1	8251.1	8190.3	8092.5	7960.8	7741.5
7.5°	7886.6	7795.5	7822.5	7923.7	7940.6	8129.6	8028.3	8105.9	8065.4	7805.6	7505.3
10°	7161.1	7140.8	7275.8	7410.8	7576.2	7778.6	7856.2	7812.4	7782.0	7684.1	7282.5
12.5°	6604.2	6661.6	6658.2	6880.9	7161.1	7275.8	7478.3	7471.5	7640.3	7458.0	7073.3
15°	6074.4	6104.8	6246.5	6384.9	6695.4	7022.7	7272.4	7306.2	7508.7	7380.4	6911.3
17.5°	5750.4	5706.6	5817.9	5983.3	6300.5	6729.1	7005.8	7086.9	7363.6	7336.6	6725.7
20°	5429.9	5429.9	5520.9	5716.7	6006.9	6489.5	6982.2	6958.6	7363.6	7285.9	6526.6
22.5°	5321.9	5375.8	5399.5	5547.9	5892.2	6307.3	6880.9	6924.9	7420.9	7262.3	6438.8
25°	5470.4	5399.5	5406.2	5524.4	5848.3	6219.5	6806.7	6904.6	7525.5	7380.4	6368.0
27.5°	5494.0	5564.9	5585.1	5666.1	5882.1	6246.5	6992.3	7191.5	7785.4	7657.1	6388.3
30°	5699.8	5770.7	5767.3	5905.7	6054.2	6465.9	7407.4	7447.9	8322.0	8004.8	6513.2
32.5°	5949.5	6023.8	6047.4	6209.4	6327.5	6867.5	7913.6	8018.2	8838.3	8551.5	6840.4
35°	6260.0	6233.0	6341.0	6503.0	6756.1	7454.6	8531.2	8706.6	9395.1	9260.1	7177.9
37.5°	6648.1	6614.4	6719.0	6982.2	7326.5	8149.9	9101.5	9216.2	9800.0	9918.2	7802.3
40°	6921.5	6935.0	7252.1	7606.5	7971.0	8811.3	9462.6	9574.0	10083.6	10532.4	8274.7
42.5°	7377.0	7461.4	7842.8	8274.7	8656.1	9307.4	9756.2	9864.2	10215.2	11025.0	8912.5
45°	8038.5	8001.3	8423.2	8905.8	9327.6	9823.7	10103.8	10066.6	10292.8	11514.4	9314.1
47.5°	8888.9	8895.7	9175.7	9587.4	10026.2	10272.5	10491.9	10360.3	10454.8	12030.7	9850.7
50°	9469.4	9519.9	9746.1	10167.9	10387.3	10765.2	11045.3	10964.3	10934.0	12341.2	10188.2
52.5°	9617.8	9769.6	9891.2	10417.6	10930.6	11527.9	11885.6	12057.7	11517.8	12445.8	10616.7
55°	8497.4	8632.4	9061.0	9783.2	11136.5	12736.0	13228.7	13232.1	12280.4	12911.5	10917.1
57.5°	6793.2	6519.9	6783.1	7549.1	9415.3	12685.4	13883.4	13724.8	12661.8	12638.2	10657.3
60°	4697.5	4630.0	4646.9	4950.7	6516.5	10090.3	12371.6	12577.4	11659.5	10954.2	8436.7
62.5°	3722.3	3664.9	3590.7	3556.9	4046.2	6287.0	8726.9	9017.1	8153.2	7103.7	5001.3
65°	2915.7	2882.0	2892.1	3027.1	3023.7	3567.0	4771.8	4653.7	3725.7	2753.7	1572.6
67.5°	1967.4	2018.0	2058.6	2466.9	2676.1	2483.8	2304.9	2237.4	1211.5	509.6	347.6
70°	1106.9	1113.7	1157.5	1542.2	2031.6	1927.0	1589.5	1589.5	604.1	185.6	199.1
72.5°	604.1	583.8	543.3	664.8	904.4	917.9	708.7	617.6	178.8	121.5	111.3
75°	293.6	290.3	249.7	205.9	195.8	162.0	124.9	114.7	81.0	77.6	67.5
77.5°	60.8	57.4	30.4	30.4	33.7	37.1	47.2	47.2	57.4	57.4	47.2
80°	0.0	0.0	3.4	13.5	23.6	33.7	40.5	40.5	47.2	47.2	37.1
82.5°	0.0	0.0	3.4	10.1	20.3	30.4	37.1	40.5	47.2	50.6	40.5
85°	0.0	0.0	0.0	6.7	16.8	23.6	20.3	20.3	16.8	13.5	6.7
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°	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6	7994.6
2.5°	7876.5	7869.8	7714.5	7626.7	7468.2	7329.8	7218.4	7137.4	7137.4	7086.9	7039.6
5°	7653.7	7596.4	7265.7	7053.1	6752.7	6530.0	6378.2	6260.0	6074.4	6125.0	5925.9
7.5°	7377.0	7231.9	6793.2	6469.2	6054.2	5737.0	5413.0	5126.1	4849.4	4724.5	4792.0
10°	7080.0	6827.0	6236.4	5723.4	5207.1	4626.7	4248.7	3789.7	3506.3	3489.4	3415.1
12.5°	6766.2	6479.4	5760.5	5051.9	4373.6	3675.0	3097.9	2669.4	2477.0	2264.4	2304.9
15°	6530.0	6104.8	5230.8	4377.0	3475.9	2770.6	2190.1	1859.5	1677.2	1626.6	1609.7
17.5°	6273.6	5817.9	4690.8	3658.2	2726.7	1994.5	1575.9	1417.4	1346.5	1346.5	1336.3
20°	6006.9	5494.0	4154.2	2990.0	2045.0	1488.2	1262.1	1211.5	1208.2	1204.7	1204.7
22.5°	5831.5	5122.8	3668.3	2375.8	1542.2	1191.3	1096.7	1076.5	1090.0	1130.5	1130.5
25°	5645.8	4765.0	3131.7	1832.5	1194.6	1022.5	968.5	982.0	1015.8	1052.9	1039.4
27.5°	5456.9	4532.2	2625.5	1437.6	978.7	894.3	874.1	904.4	941.6	975.3	965.1
30°	5413.0	4282.5	2146.3	1090.0	840.3	779.6	793.0	820.0	857.2	870.7	884.2
32.5°	5480.5	4086.7	1758.2	894.3	732.3	715.4	715.4	728.9	752.5	782.9	772.8
35°	5672.8	3975.4	1390.4	776.2	671.6	654.7	651.3	664.8	678.3	688.4	678.3
37.5°	5966.5	3887.6	1137.2	688.4	631.1	604.1	597.4	593.9	607.5	610.8	617.6
40°	6341.0	3934.9	965.1	634.5	590.5	560.2	540.0	540.0	540.0	550.1	553.4
42.5°	6745.9	3999.0	833.6	604.1	553.4	516.3	496.1	489.3	496.1	509.6	506.2
45°	7171.2	4123.8	749.2	556.8	519.7	472.5	445.4	438.7	455.5	482.6	479.2
47.5°	7569.4	4302.7	685.0	526.4	485.9	442.1	408.3	401.6	432.0	469.1	472.5
50°	7967.6	4613.2	661.4	502.8	462.4	411.7	381.3	374.6	408.3	455.5	465.7
52.5°	8426.6	4947.3	644.6	472.5	435.3	388.1	354.3	347.6	384.7	445.4	448.8
55°	8726.9	5230.8	631.1	418.4	384.7	350.9	324.0	320.6	361.1	415.1	428.6
57.5°	8375.9	4835.9	583.8	364.5	327.4	310.5	286.8	286.8	320.6	371.2	381.3
60°	6351.1	3182.3	415.1	293.6	276.7	266.6	256.5	256.5	283.4	320.6	324.0
62.5°	3718.9	1714.3	266.6	236.2	236.2	226.1	209.2	209.2	236.2	256.5	259.9
65°	1103.5	550.1	216.0	202.5	199.1	182.2	165.4	162.0	182.2	192.4	189.0
67.5°	317.2	253.1	178.8	168.7	165.4	138.4	128.3	124.9	128.3	121.5	118.1
70°	189.0	172.1	138.4	141.7	124.9	101.2	91.1	87.8	81.0	70.9	64.1
72.5°	104.6	104.6	101.2	108.0	87.8	67.5	57.4	47.2	37.1	30.4	27.0
75°	64.1	67.5	70.9	74.2	57.4	43.8	37.1	23.6	13.5	6.7	6.7
77.5°	43.8	47.2	50.6	54.0	47.2	40.5	30.4	16.8	3.4	0.0	0.0
80°	33.7	37.1	43.8	47.2	50.6	54.0	40.5	16.8	3.4	0.0	0.0
82.5°	37.1	40.5	50.6	47.2	47.2	47.2	37.1	16.8	3.4	0.0	0.0
85°	6.7	10.1	16.8	16.8	23.6	30.4	23.6	6.7	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)