

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: P531273

Luminaire Tested: **GALN-SA6C-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531273  
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-SA6C-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA 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: 24334 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

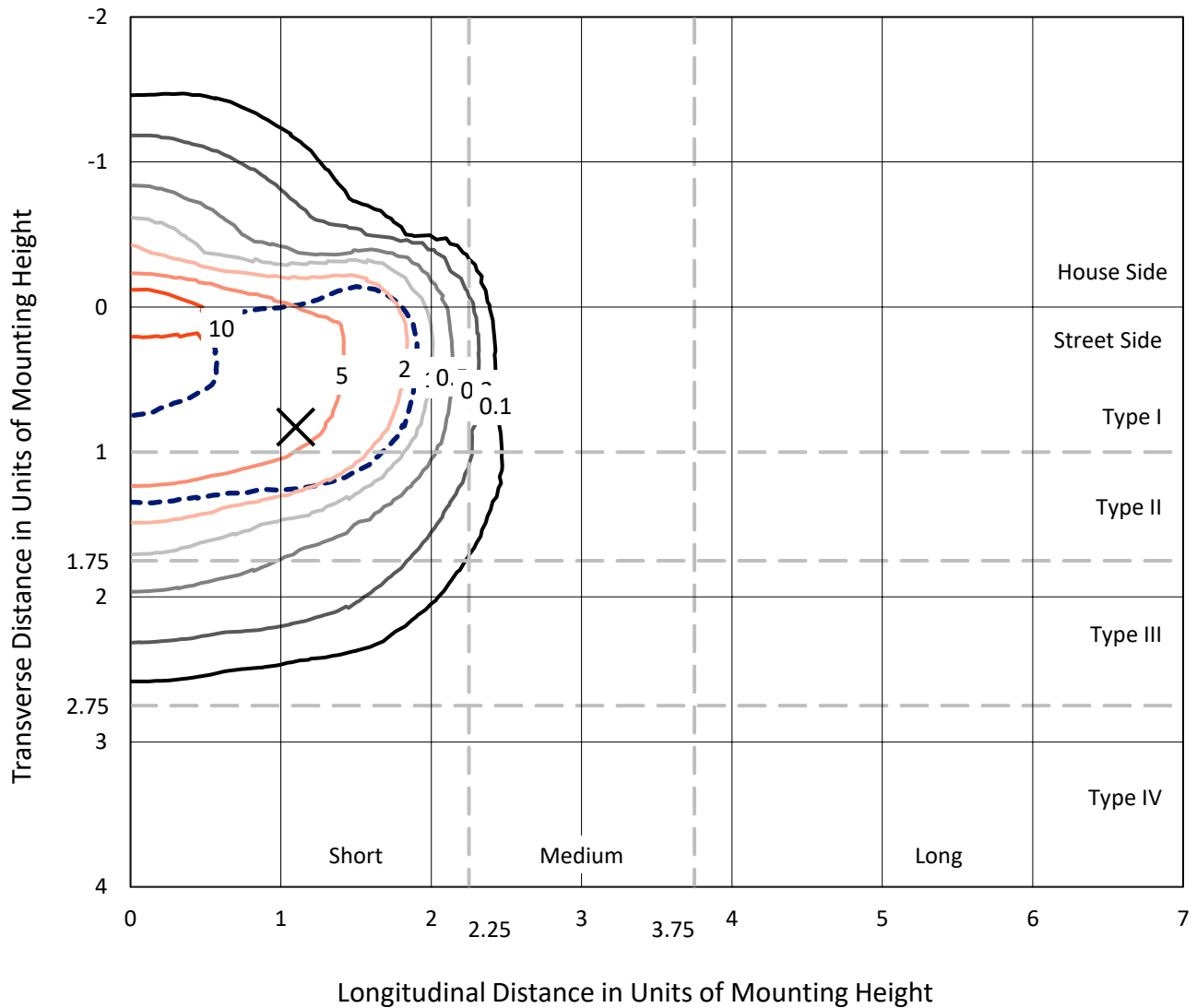
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

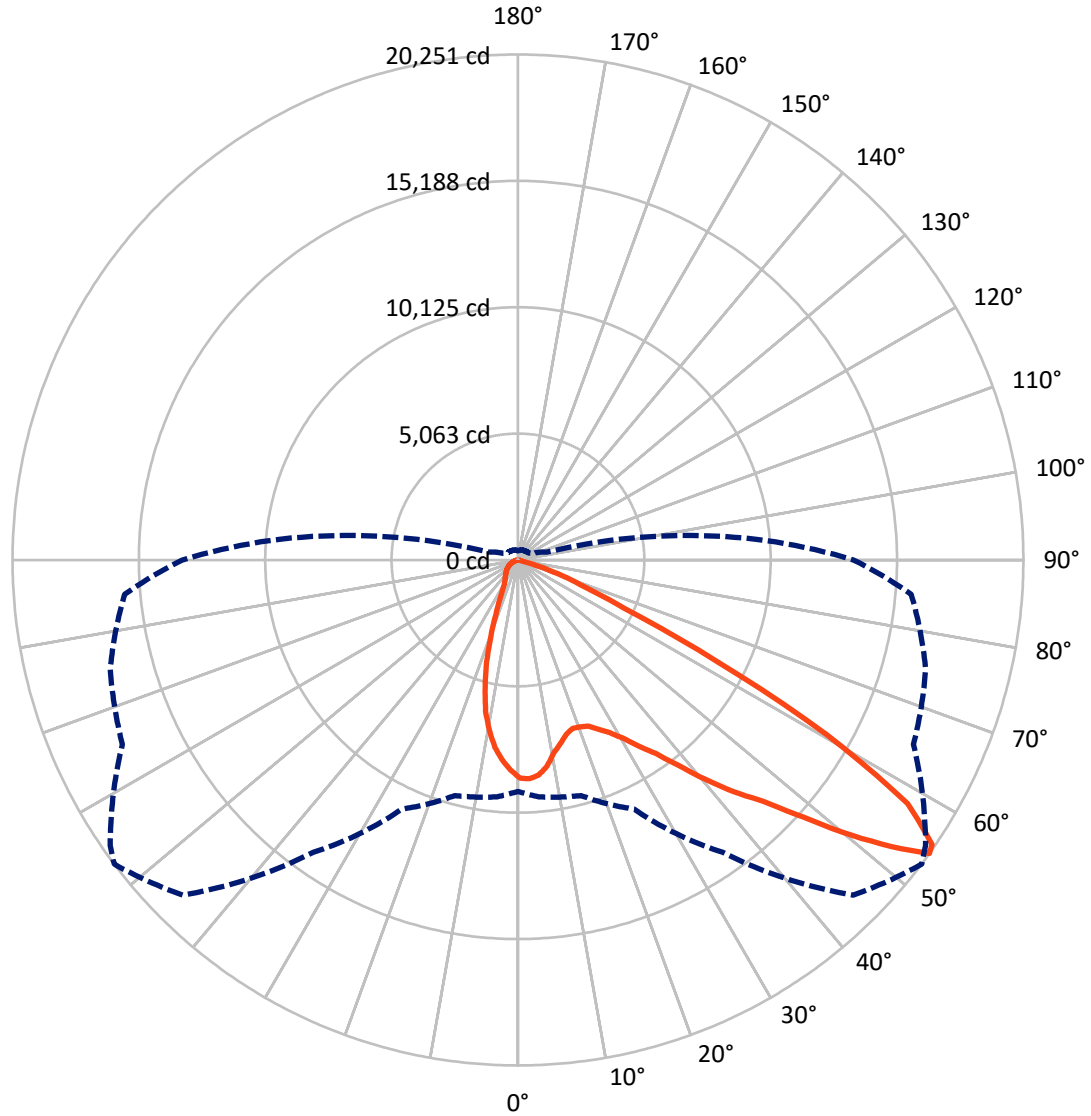
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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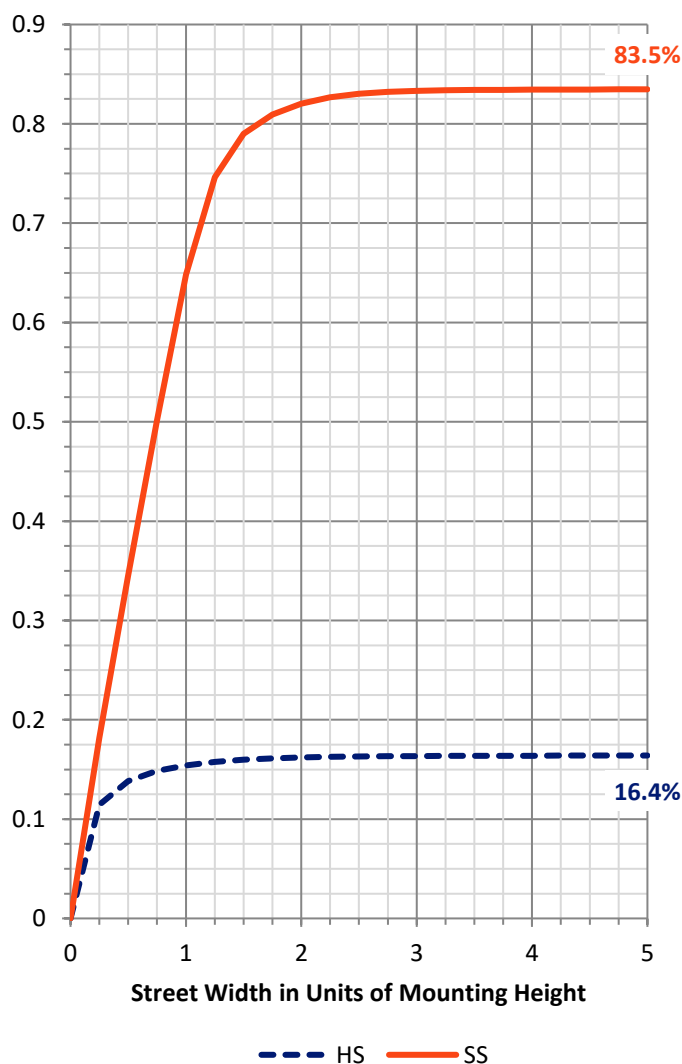
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4026.1	0.0	4026.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	20307.9	0.0	20307.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	24334.0	0.0	24334.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	749.9	3.1
10°-20°	1719.3	7.1
20°-30°	2443.5	10.0
30°-40°	3770.9	15.5
40°-50°	5912.5	24.3
50°-60°	6868.2	28.2
60°-70°	2595.2	10.7
70°-80°	246.8	1.0
80°-90°	27.8	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°	24334.0	100.0
0°-180°	24334.0	100.0

**Coefficient of Utilization**

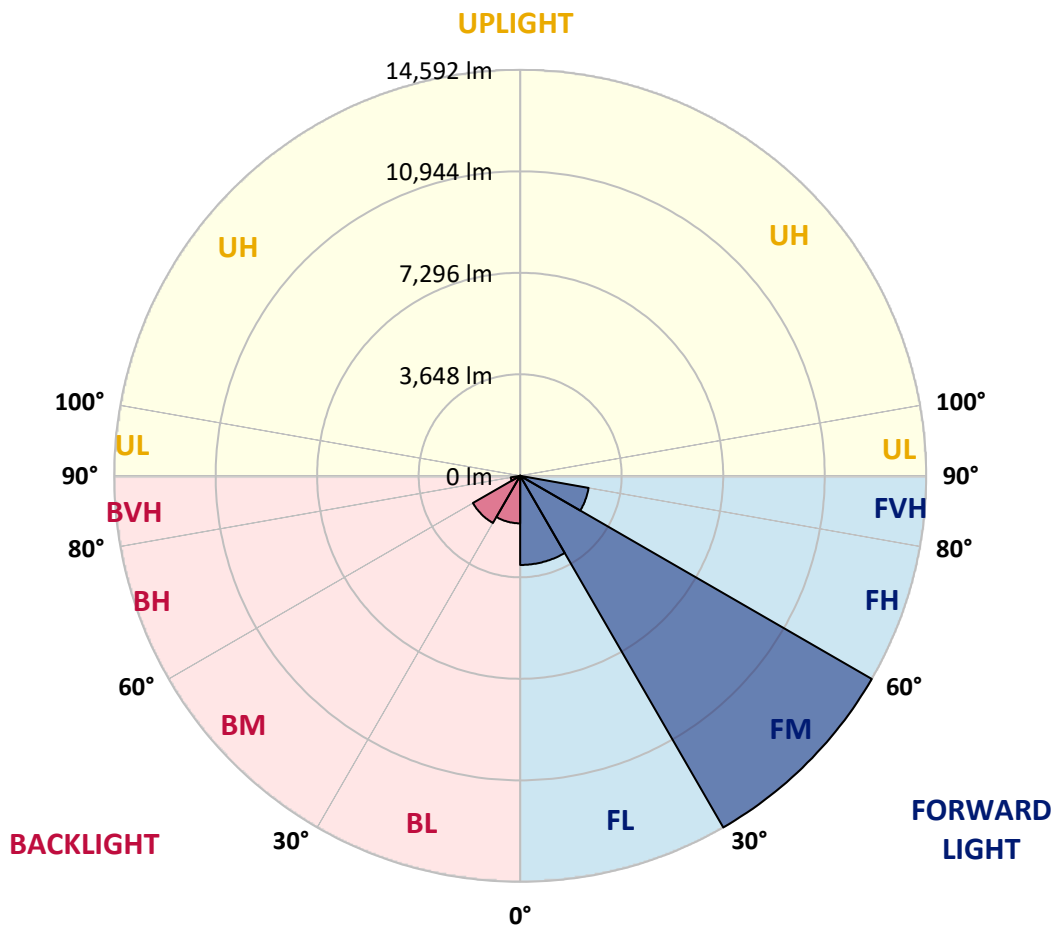


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3204.2	13.2			
FM (30°-60°)	14592.3	60.0			
FH (60°-80°)	2497.0	10.3			G2/5000
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1708.5	7.0	B3/2500		
BM (30°-60°)	1959.2	8.1	B2/2500		
BH (60°-80°)	345.0	1.4	B1/500		G1/500
BVH (80°-90°)	13.4	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°	53°	55°	65°	75°	85°
0°	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4
2.5°	8695.0	8618.0	8695.0	8704.1	8758.5	8808.4	8776.6	8849.2	8808.4	8763.0	8749.4
5°	7992.4	8096.6	8101.2	8264.4	8228.1	8527.3	8658.8	8622.5	8844.6	8831.0	8799.3
7.5°	7362.2	7321.4	7375.8	7566.2	7806.5	8151.0	8341.4	8336.9	8654.2	8880.9	8858.2
10°	6777.4	6772.9	6886.2	7035.8	7239.8	7602.5	7865.4	7996.9	8491.0	8835.6	8885.4
12.5°	6383.0	6364.9	6487.3	6609.7	6931.5	7212.6	7548.1	7611.6	8178.2	8676.9	8758.5
15°	6124.6	6165.4	6174.5	6410.2	6614.2	6985.9	7248.9	7380.3	8033.2	8550.0	8862.8
17.5°	6079.3	6133.7	6138.2	6333.1	6550.7	6863.5	7094.7	7271.5	7910.8	8613.4	8867.3
20°	6169.9	6138.2	6165.4	6287.8	6500.9	6800.1	7135.5	7194.5	7870.0	8645.2	8917.2
22.5°	6428.3	6419.3	6351.3	6451.0	6600.6	6913.4	7230.7	7321.4	7987.8	8808.4	8958.0
25°	6713.9	6763.8	6700.3	6686.7	6791.0	7099.3	7520.9	7638.8	8382.2	9103.0	9084.9
27.5°	7248.9	7199.0	7199.0	7135.5	7108.3	7257.9	7833.7	8028.6	8822.0	9483.8	9230.0
30°	7761.2	7815.6	7774.8	7797.4	7616.1	7602.5	8278.0	8518.2	9601.7	10064.1	9538.2
32.5°	8572.6	8500.1	8568.1	8509.2	8268.9	8024.1	8880.9	9130.2	10544.6	10730.5	10000.6
35°	9248.1	9216.4	9506.5	9497.4	9107.6	8867.3	9520.1	9891.8	11202.0	11528.4	10544.6
37.5°	10209.2	10150.2	10481.2	10639.9	10290.8	9932.6	10435.8	10866.5	11814.0	12167.6	11102.3
40°	11197.5	11347.1	11791.3	12054.3	11682.5	11206.5	11555.6	11687.1	12222.0	12584.7	11483.1
42.5°	12448.7	12666.3	13119.6	13346.3	13314.5	12797.7	12693.5	12688.9	12516.7	12466.8	11764.1
45°	13650.0	13568.4	14266.6	14760.7	15159.6	15010.0	13790.6	13654.5	12983.6	12643.6	11836.7
47.5°	14175.9	14148.7	14624.7	15504.2	16864.2	17050.1	15386.3	14860.4	13772.4	13387.1	12231.1
50°	13495.9	13636.4	14107.9	15082.6	17167.9	18586.9	17344.7	16637.5	14692.7	14293.8	13164.9
52.5°	11274.5	11369.7	11818.5	13056.1	16134.3	19493.5	19221.5	18813.5	16383.6	15721.8	14792.4
54°	9270.8	9524.6	9769.4	11011.6	14293.8	18990.3	20250.6	19937.8	17485.3	16909.5	15817.0
55°	8074.0	8223.6	8400.4	9638.0	13019.9	18138.1	20132.8	20160.0	18224.2	17281.3	16506.0
57.5°	5897.9	6002.2	5820.9	6369.4	8939.8	14729.0	18414.6	19149.0	19221.5	17838.9	16927.7
60°	4506.2	4551.5	4347.5	4433.6	5557.9	10109.4	14243.9	15127.9	17340.2	15590.3	14339.1
62.5°	3495.2	3504.3	3499.8	3649.4	3830.7	5947.8	8908.1	9692.4	11954.5	11070.5	9737.7
65°	2575.0	2534.2	2606.7	3060.0	3268.6	3740.0	4692.1	5263.3	6496.3	5485.4	3921.4
67.5°	1668.3	1681.9	1754.4	2275.8	2801.6	2869.6	2887.8	2842.4	2847.0	1568.6	983.7
70°	1001.9	1024.5	1001.9	1287.5	2003.8	2058.2	1881.4	1836.0	1432.5	371.7	367.2
72.5°	593.9	562.1	503.2	553.1	834.1	997.3	897.6	893.1	562.1	217.6	217.6
75°	249.3	226.7	185.9	167.7	222.1	213.1	213.1	190.4	149.6	145.1	136.0
77.5°	49.9	49.9	36.3	40.8	54.4	63.5	77.1	77.1	90.7	90.7	86.1
80°	0.0	4.5	13.6	27.2	40.8	58.9	68.0	68.0	77.1	77.1	63.5
82.5°	0.0	4.5	13.6	27.2	36.3	54.4	68.0	68.0	77.1	81.6	68.0
85°	0.0	4.5	13.6	22.7	36.3	45.3	45.3	40.8	31.7	27.2	18.1
87.5°	0.0	0.0	4.5	9.1	4.5	9.1	9.1	9.1	9.1	9.1	9.1
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°	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4	8740.4
2.5°	8781.2	8776.6	8667.8	8491.0	8450.2	8300.6	8282.5	8191.8	8241.7	8074.0	8055.8
5°	8708.6	8654.2	8522.8	8409.4	8078.5	7842.8	7656.9	7430.2	7298.7	7321.4	7235.3
7.5°	8812.9	8672.4	8441.2	8046.8	7643.3	7230.7	7008.6	6546.2	6378.5	6129.1	6092.9
10°	8704.1	8599.8	8241.7	7588.9	7031.3	6437.4	5916.1	5403.8	5013.9	4846.2	4809.9
12.5°	8695.0	8513.7	7915.3	7189.9	6383.0	5530.7	4773.7	4134.4	3749.1	3531.5	3481.6
15°	8554.5	8336.9	7548.1	6573.4	5458.2	4397.4	3572.3	2955.8	2661.1	2534.2	2570.4
17.5°	8568.1	8241.7	7180.9	5920.6	4547.0	3227.8	2439.0	2121.6	2044.6	2076.3	2076.3
20°	8554.5	8028.6	6736.6	5168.1	3481.6	2239.5	1790.7	1677.4	1727.2	1827.0	1804.3
22.5°	8482.0	7928.9	6328.6	4374.7	2561.4	1659.2	1437.1	1441.6	1518.7	1641.1	1668.3
25°	8536.4	7706.8	5811.8	3572.3	1867.8	1323.7	1246.7	1278.4	1360.0	1450.7	1468.8
27.5°	8495.6	7548.1	5272.3	2774.4	1364.5	1137.9	1133.3	1169.6	1205.9	1273.9	1273.9
30°	8540.9	7403.0	4741.9	2062.7	1124.3	1042.7	1024.5	1051.7	1088.0	1101.6	1097.1
32.5°	8708.6	7294.2	4129.9	1541.4	992.8	952.0	952.0	952.0	947.5	965.6	970.1
35°	9075.8	7312.3	3590.4	1192.3	906.7	874.9	861.3	843.2	834.1	843.2	847.7
37.5°	9474.8	7303.3	3032.8	1015.5	843.2	816.0	784.3	757.1	752.5	761.6	748.0
40°	9651.6	7389.4	2516.0	911.2	784.3	752.5	702.7	680.0	684.5	693.6	684.5
42.5°	9891.8	7416.6	2180.6	829.6	729.9	680.0	648.3	621.1	616.5	630.1	625.6
45°	9887.3	7262.5	1827.0	784.3	680.0	625.6	584.8	562.1	562.1	571.2	575.7
47.5°	10177.4	7239.8	1568.6	743.5	643.7	589.3	539.5	521.3	516.8	516.8	507.7
50°	10852.9	7557.1	1369.1	698.1	598.4	548.5	507.7	485.1	466.9	457.9	453.3
52.5°	12172.1	8545.4	1214.9	643.7	548.5	507.7	471.5	453.3	430.7	408.0	403.5
54°	13450.5	9565.4	1205.9	598.4	507.7	480.5	448.8	439.7	412.5	380.8	371.7
55°	14026.3	10159.3	1237.6	562.1	480.5	462.4	435.2	426.1	398.9	362.7	358.1
57.5°	14502.3	10390.5	1219.5	466.9	435.2	430.7	408.0	394.4	362.7	312.8	303.7
60°	11673.5	7856.4	874.9	412.5	398.9	389.9	371.7	362.7	321.9	267.5	262.9
62.5°	7375.8	4519.8	557.6	362.7	349.1	335.5	312.8	303.7	267.5	213.1	199.5
65°	3141.6	1872.3	376.3	321.9	299.2	276.5	258.4	244.8	213.1	158.7	154.1
67.5°	816.0	666.4	312.8	281.1	249.3	217.6	204.0	181.3	145.1	108.8	104.3
70°	367.2	335.5	262.9	235.7	199.5	167.7	149.6	126.9	95.2	72.5	68.0
72.5°	217.6	213.1	199.5	176.8	149.6	126.9	108.8	86.1	63.5	40.8	40.8
75°	136.0	131.5	136.0	122.4	104.3	95.2	81.6	58.9	36.3	18.1	18.1
77.5°	81.6	81.6	81.6	77.1	72.5	72.5	58.9	36.3	18.1	4.5	4.5
80°	63.5	63.5	68.0	63.5	63.5	63.5	49.9	27.2	9.1	0.0	0.0
82.5°	63.5	68.0	77.1	72.5	63.5	54.4	45.3	27.2	9.1	0.0	0.0
85°	18.1	13.6	22.7	31.7	45.3	40.8	31.7	22.7	9.1	0.0	0.0
87.5°	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	4.5	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)