

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: P651031

Luminaire Tested: **GALN-SA7C-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27236.6 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

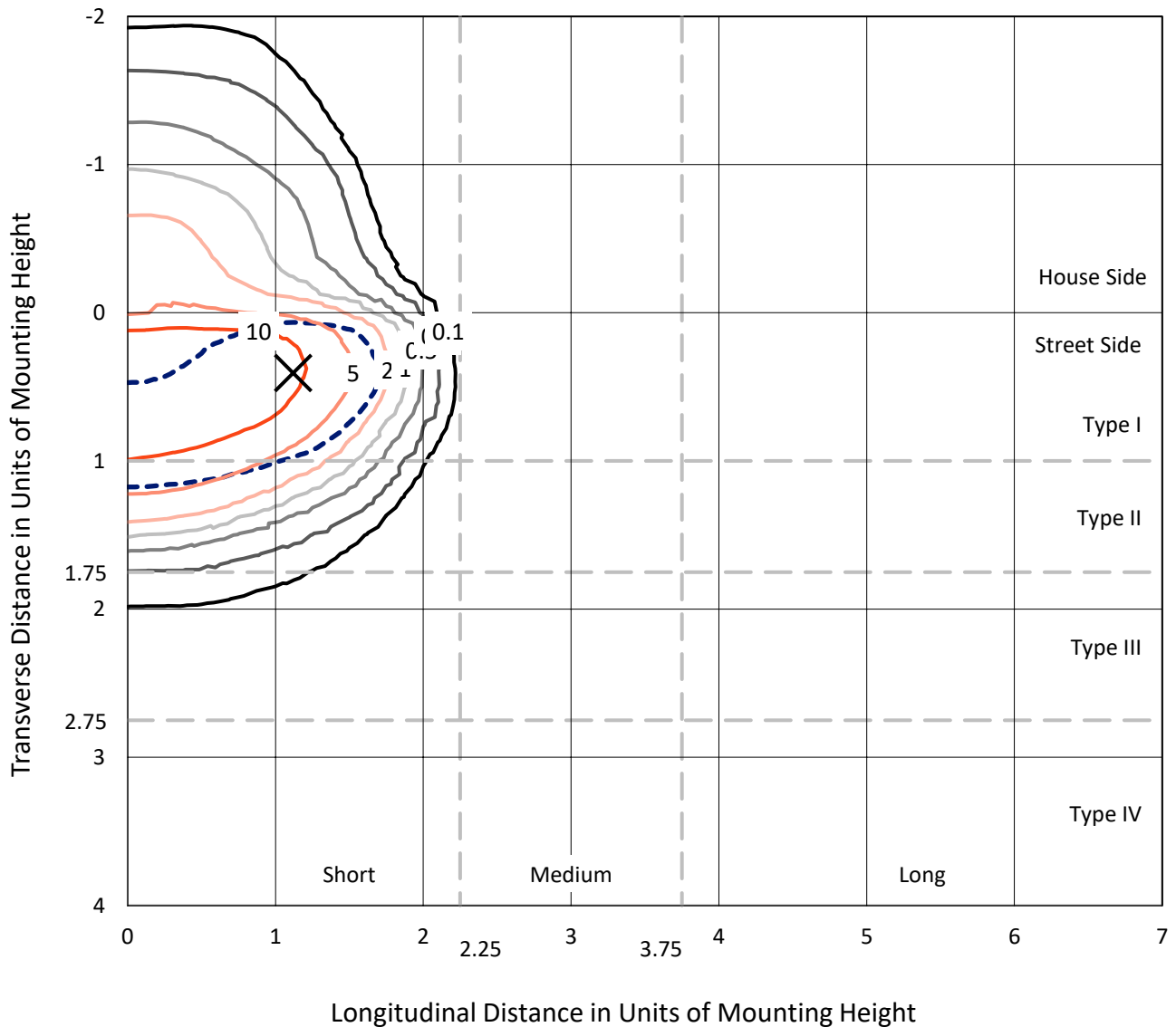
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

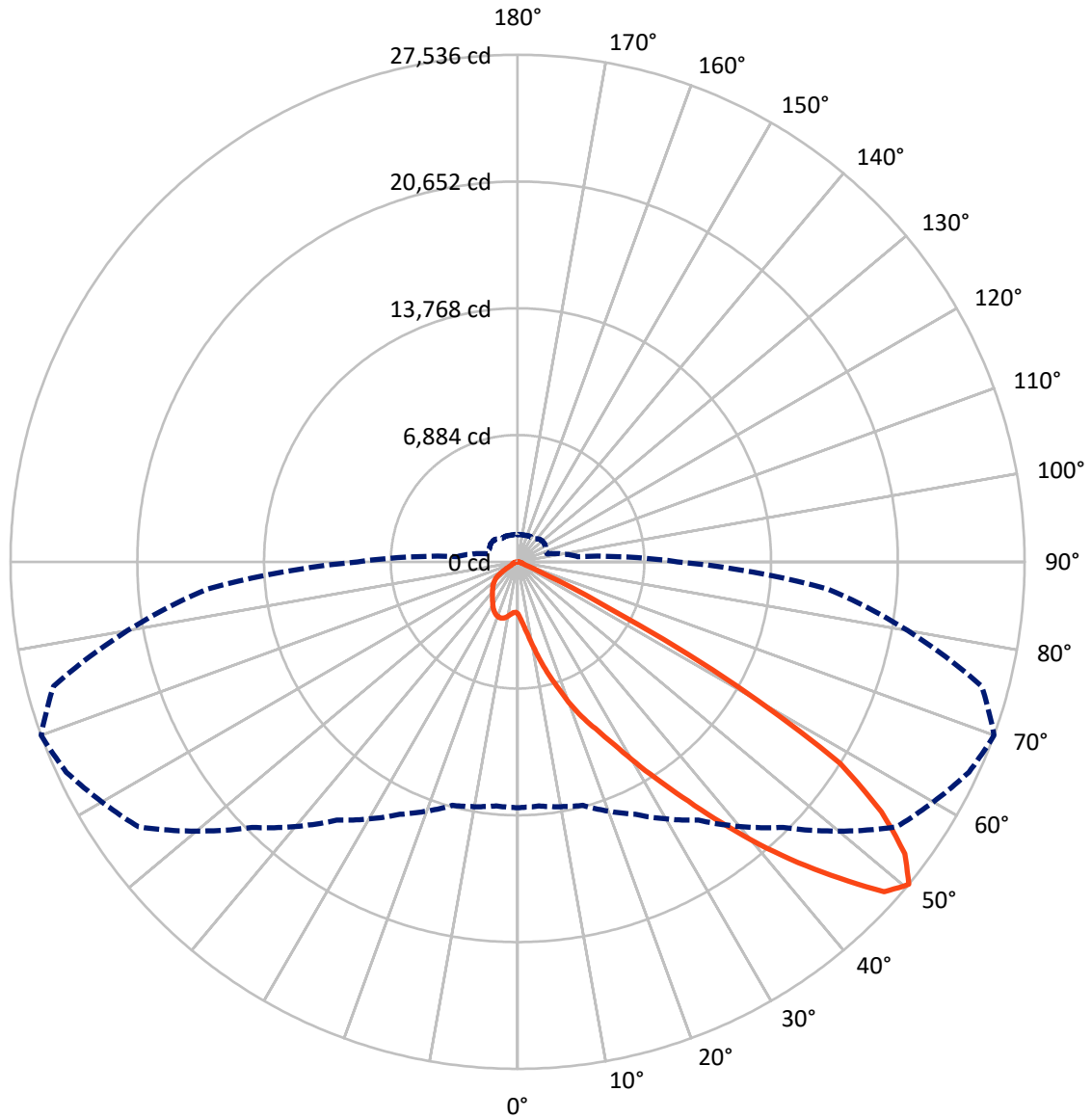
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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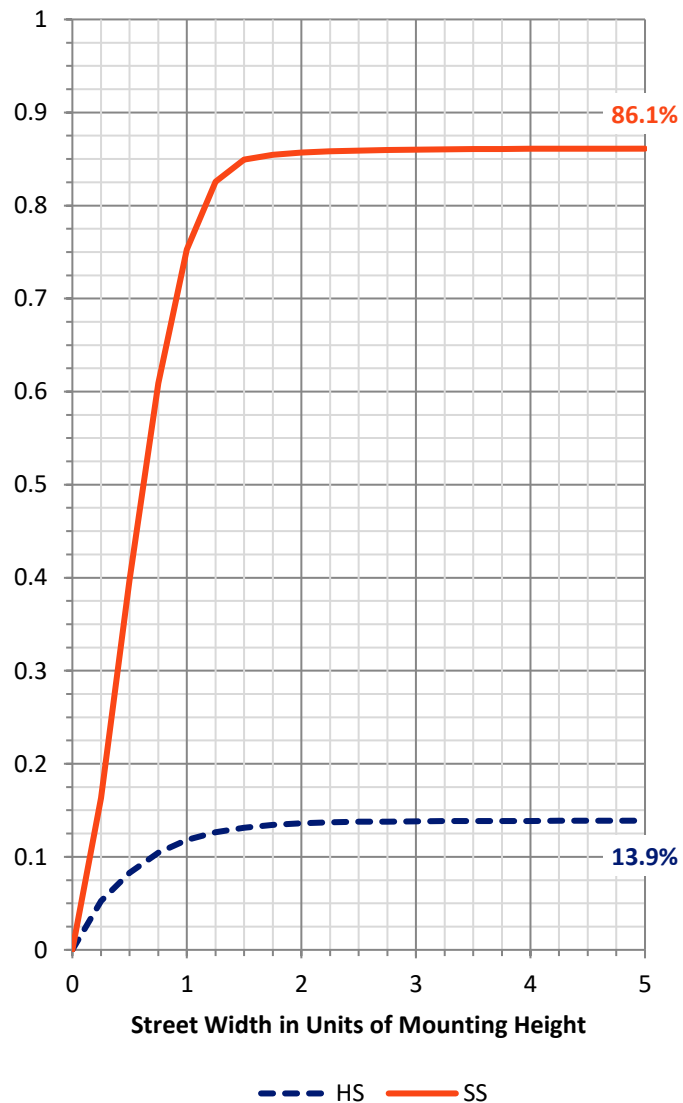
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3803.8	0.0	3803.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	23432.9	0.0	23432.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	27236.6	0.0	27236.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.9	1.3
10°-20°	1586.9	5.8
20°-30°	3329.0	12.2
30°-40°	5738.1	21.1
40°-50°	8386.2	30.8
50°-60°	6531.5	24.0
60°-70°	1106.6	4.1
70°-80°	152.0	0.6
80°-90°	39.4	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°	27236.6	100.0
0°-180°	27236.6	100.0

**Coefficient of Utilization**



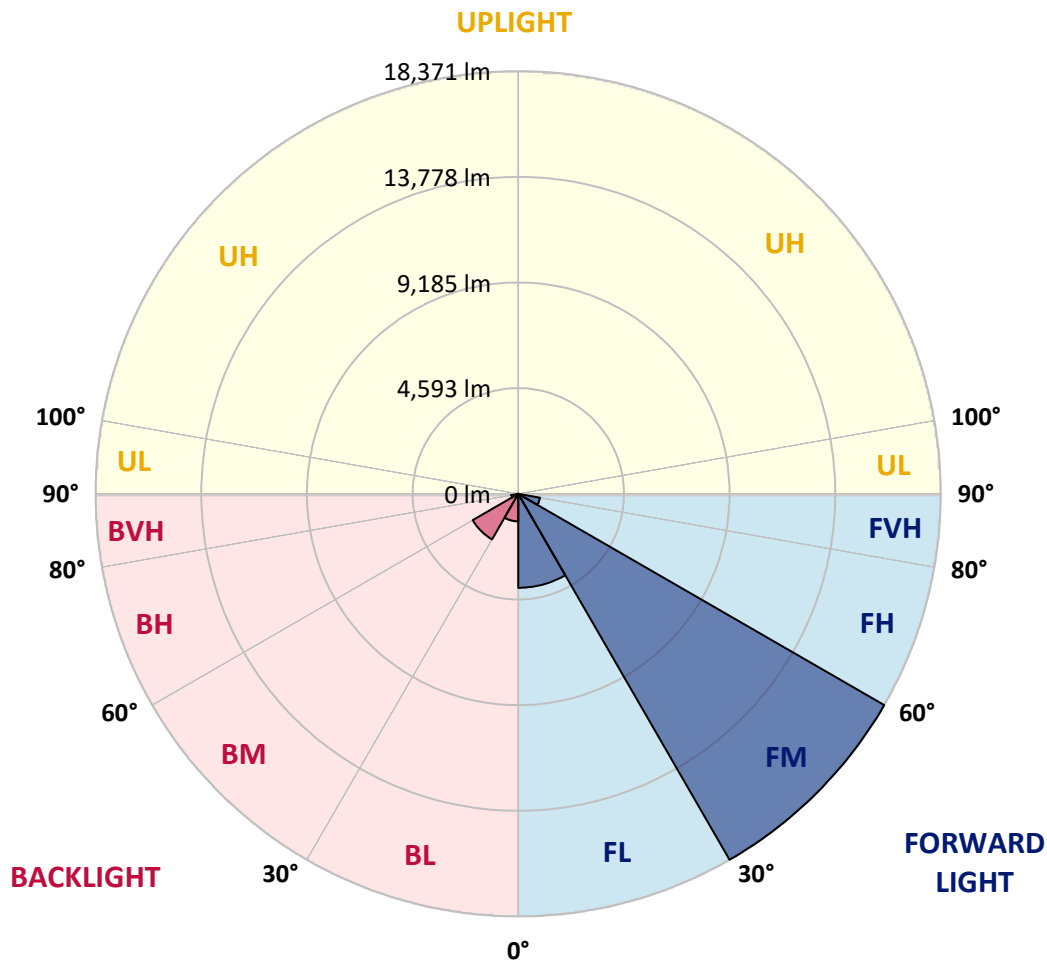
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4085.8	15.0			
FM (30°-60°)	18370.6	67.4			
FH (60°-80°)	958.2	3.5			G1/1800
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	1197.0	4.4	B3/2500		
BM (30°-60°)	2285.2	8.4	B2/2500		
BH (60°-80°)	300.5	1.1	B1/500		G1/500
BVH (80°-90°)	21.2	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-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2
2.5°	3694.4	3667.5	3609.3	3501.8	3457.1	3349.6	3286.9	3166.0	3089.8	3004.8	2910.7
5°	5203.5	5064.7	4979.6	4858.7	4504.9	4285.5	3922.8	3613.8	3470.5	3313.8	3098.8
7.5°	6761.9	6672.3	6555.8	6296.1	6054.4	5597.6	4975.1	4294.5	4003.4	3734.7	3309.3
10°	8051.6	7800.8	7787.3	7594.8	7330.6	6784.3	6036.4	5190.1	4670.6	4276.6	3609.3
12.5°	8951.6	8723.3	8826.3	8803.8	8557.6	8056.0	7191.7	6072.3	5530.4	4916.9	3918.3
15°	9771.2	9677.1	9645.8	9618.9	9520.4	9148.7	8374.0	7147.0	6363.3	5624.4	4267.6
17.5°	10572.7	10330.8	10447.3	10469.7	10460.8	10124.9	9399.4	8168.0	7245.5	6372.3	4634.8
20°	11284.7	11307.1	11150.4	11119.0	11092.1	11078.7	10371.2	9180.0	8329.2	7155.9	5114.0
22.5°	12198.2	12041.5	12180.3	12090.8	11916.1	11808.6	11266.8	10075.6	9269.6	8100.8	5602.1
25°	13277.5	13402.8	13076.0	13040.1	12847.5	12475.9	11987.8	11078.7	10174.2	8978.5	6130.5
27.5°	14607.4	14388.0	14302.9	14105.9	13756.6	13599.9	13026.7	12113.2	11266.8	9901.0	6641.0
30°	15749.3	15691.1	15265.7	15032.9	14728.3	14723.9	13922.3	13514.8	12690.9	11347.4	7344.0
32.5°	16680.8	16425.5	16268.8	16107.6	15861.3	15928.5	15252.3	15037.3	14208.9	12690.9	8172.5
35°	17303.2	17119.6	17025.6	16779.3	16707.6	17007.7	16725.6	16636.0	15955.4	14580.6	9144.2
37.5°	17500.3	17558.5	17540.6	17231.6	17383.8	18194.4	18557.1	18324.2	17965.9	16573.3	10196.5
40°	17674.9	17715.2	17625.7	17988.4	18422.8	19345.2	20657.3	20272.2	20137.8	18592.9	11660.9
42.5°	17773.4	17742.1	17742.1	18369.0	19027.3	20881.2	22685.9	22430.6	22327.6	20742.3	13353.6
45°	17348.0	17043.5	17370.4	18221.2	19546.8	21638.0	24306.9	24660.6	24512.9	23299.3	15332.9
47.5°	15758.3	15946.4	16130.0	17267.4	18915.4	21405.1	25301.1	26505.6	26778.8	25448.8	16631.5
50°	13353.6	13313.3	13693.9	15126.9	17128.6	20402.1	25108.5	27038.6	27535.6	26093.6	16904.7
52.5°	9712.9	10008.5	10420.4	11844.5	14217.9	17804.7	22623.2	25663.8	26326.5	25301.1	16725.6
55°	5655.8	5328.9	6255.9	7460.4	9699.5	13429.7	19125.8	22748.5	23975.6	23859.1	15821.0
57.5°	2265.9	2194.3	2512.2	3385.4	5060.2	8324.7	13908.9	18691.4	20657.3	21853.0	13904.3
60°	994.1	971.8	1141.9	1379.2	2068.9	3837.7	7608.2	11625.1	13676.0	15270.2	9569.7
62.5°	716.4	707.5	792.6	877.7	1092.6	1670.3	3197.3	4684.0	5839.4	7053.0	4285.5
65°	577.7	600.1	658.3	703.1	806.0	927.0	1128.5	1303.1	1598.7	1656.9	944.9
67.5°	470.2	488.1	541.9	591.1	609.1	501.6	519.5	456.7	456.7	407.5	326.9
70°	344.8	349.3	412.0	470.2	376.2	201.5	353.8	353.8	318.0	304.5	277.6
72.5°	255.2	259.7	309.0	291.1	147.8	125.4	259.7	286.6	259.7	246.3	223.9
75°	188.0	192.6	161.2	67.2	62.7	80.6	152.2	197.0	188.0	183.6	170.1
77.5°	35.8	26.8	22.4	31.4	44.7	67.2	98.5	120.9	125.4	134.3	125.4
80°	4.5	4.5	13.5	26.8	49.3	71.7	103.0	116.4	120.9	125.4	116.4
82.5°	0.0	4.5	13.5	26.8	49.3	67.2	89.6	103.0	111.9	116.4	111.9
85°	0.0	4.5	8.9	22.4	40.3	49.3	44.7	31.4	26.8	31.4	22.4
87.5°	0.0	0.0	4.5	4.5	8.9	8.9	8.9	8.9	8.9	8.9	8.9
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°	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2	2821.2
2.5°	2857.0	2839.1	2776.4	2709.2	2651.0	2677.9	2651.0	2628.6	2637.5	2628.6	2619.6
5°	3013.7	2933.2	2798.8	2740.6	2691.3	2686.8	2673.4	2668.9	2673.4	2673.4	2633.1
7.5°	3161.5	3031.6	2888.3	2825.7	2767.5	2771.9	2740.6	2740.6	2736.1	2713.7	2704.7
10°	3385.4	3210.8	3027.2	2915.2	2843.6	2830.1	2798.8	2767.5	2767.5	2767.5	2722.7
12.5°	3631.7	3412.3	3161.5	3031.6	2946.5	2879.4	2830.1	2821.2	2771.9	2762.9	2740.6
15°	3846.6	3569.0	3251.1	3071.9	2964.4	2874.9	2798.8	2749.6	2727.1	2713.7	2695.8
17.5°	4057.2	3703.3	3300.3	3071.9	2955.5	2852.5	2771.9	2727.1	2673.4	2682.4	2646.5
20°	4339.2	3846.6	3313.8	3013.7	2870.4	2771.9	2664.5	2642.1	2610.7	2583.8	2592.8
22.5°	4612.4	3949.7	3273.4	2942.1	2736.1	2619.6	2565.9	2539.1	2525.6	2503.2	2471.9
25°	4858.7	4061.6	3210.8	2812.2	2592.8	2507.7	2458.5	2454.0	2422.7	2422.7	2364.4
27.5°	5109.5	4101.9	3103.3	2660.0	2467.4	2418.1	2395.8	2386.8	2373.4	2342.0	2301.7
30°	5396.0	4115.3	2946.5	2503.2	2355.5	2301.7	2333.1	2355.5	2297.3	2239.0	2256.9
32.5°	5633.4	4084.0	2758.5	2355.5	2274.8	2248.0	2310.6	2333.1	2265.9	2203.2	2171.9
35°	5920.0	4007.9	2574.9	2239.0	2194.3	2248.0	2301.7	2301.7	2167.3	2091.2	2073.3
37.5°	6354.3	3922.8	2404.8	2140.5	2109.1	2221.1	2292.7	2243.5	2033.0	1939.0	1916.6
40°	6820.1	3869.0	2239.0	2042.0	2064.4	2176.3	2216.6	2064.4	1849.4	1791.2	1773.3
42.5°	7496.3	3761.5	2091.2	1956.9	2024.1	2113.7	2113.7	1840.4	1759.9	1728.5	1724.0
45°	8338.2	3685.4	1961.4	1885.3	1965.8	1988.3	1916.6	1724.0	1665.9	1656.9	1661.4
47.5°	8750.1	3537.7	1827.1	1800.2	1858.4	1862.9	1674.8	1630.0	1580.7	1567.3	1558.4
50°	8687.4	3273.4	1652.4	1688.2	1768.9	1724.0	1527.0	1536.0	1491.2	1486.7	1464.3
52.5°	8248.6	2857.0	1477.7	1562.8	1652.4	1522.5	1406.2	1397.2	1397.2	1339.0	1316.6
55°	7312.7	2301.7	1267.3	1374.8	1482.3	1280.8	1249.4	1240.4	1218.0	1164.3	1150.8
57.5°	5790.1	1688.2	953.9	1070.3	1258.3	1088.2	1083.7	1043.4	985.1	944.9	944.9
60°	3443.6	971.8	600.1	653.8	832.9	882.2	980.7	962.8	864.3	801.6	783.6
62.5°	1571.8	501.6	380.6	389.6	447.8	573.2	770.2	891.1	752.3	644.9	635.9
65°	528.4	371.6	313.4	300.1	309.0	344.8	461.2	631.4	600.1	497.0	479.1
67.5°	322.4	331.4	295.5	273.2	273.2	268.7	264.2	286.6	353.8	344.8	349.3
70°	277.6	304.5	273.2	246.3	237.3	223.9	188.0	156.8	134.3	156.8	165.7
72.5°	223.9	241.8	232.9	210.5	188.0	170.1	134.3	103.0	76.1	67.2	67.2
75°	165.7	179.1	188.0	161.2	143.3	120.9	98.5	67.2	40.3	26.8	26.8
77.5°	120.9	134.3	138.8	125.4	107.5	85.1	62.7	44.7	22.4	8.9	8.9
80°	103.0	120.9	134.3	125.4	111.9	80.6	58.2	31.4	17.9	4.5	4.5
82.5°	98.5	120.9	134.3	120.9	107.5	76.1	58.2	35.8	13.5	4.5	4.5
85°	22.4	31.4	40.3	49.3	58.2	58.2	44.7	26.8	13.5	4.5	4.5
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	4.5	4.5	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)