

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: P648314

Luminaire Tested: **GALN-SA3B-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648314  
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-SA3B-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA 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: 7763.5 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

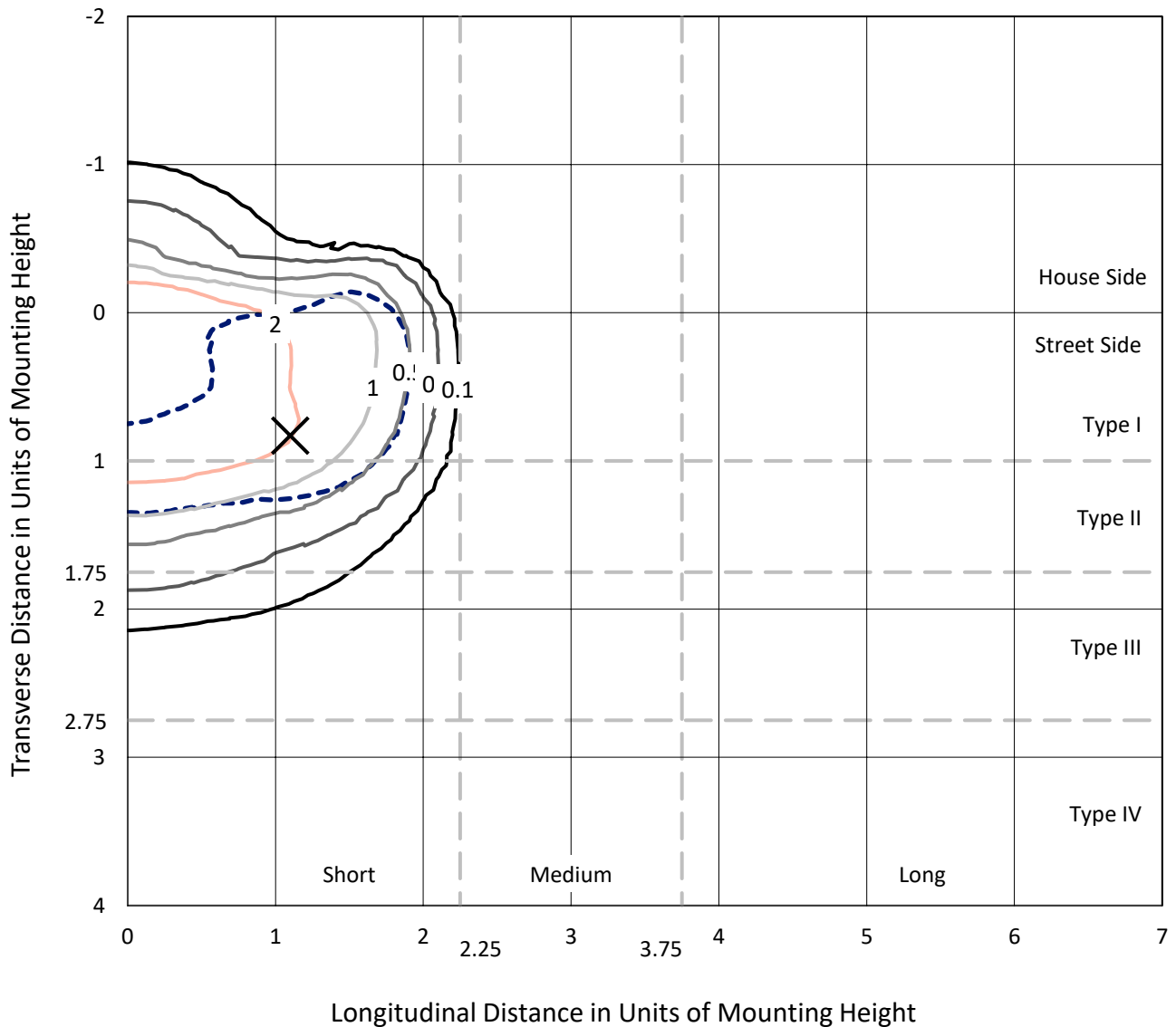
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

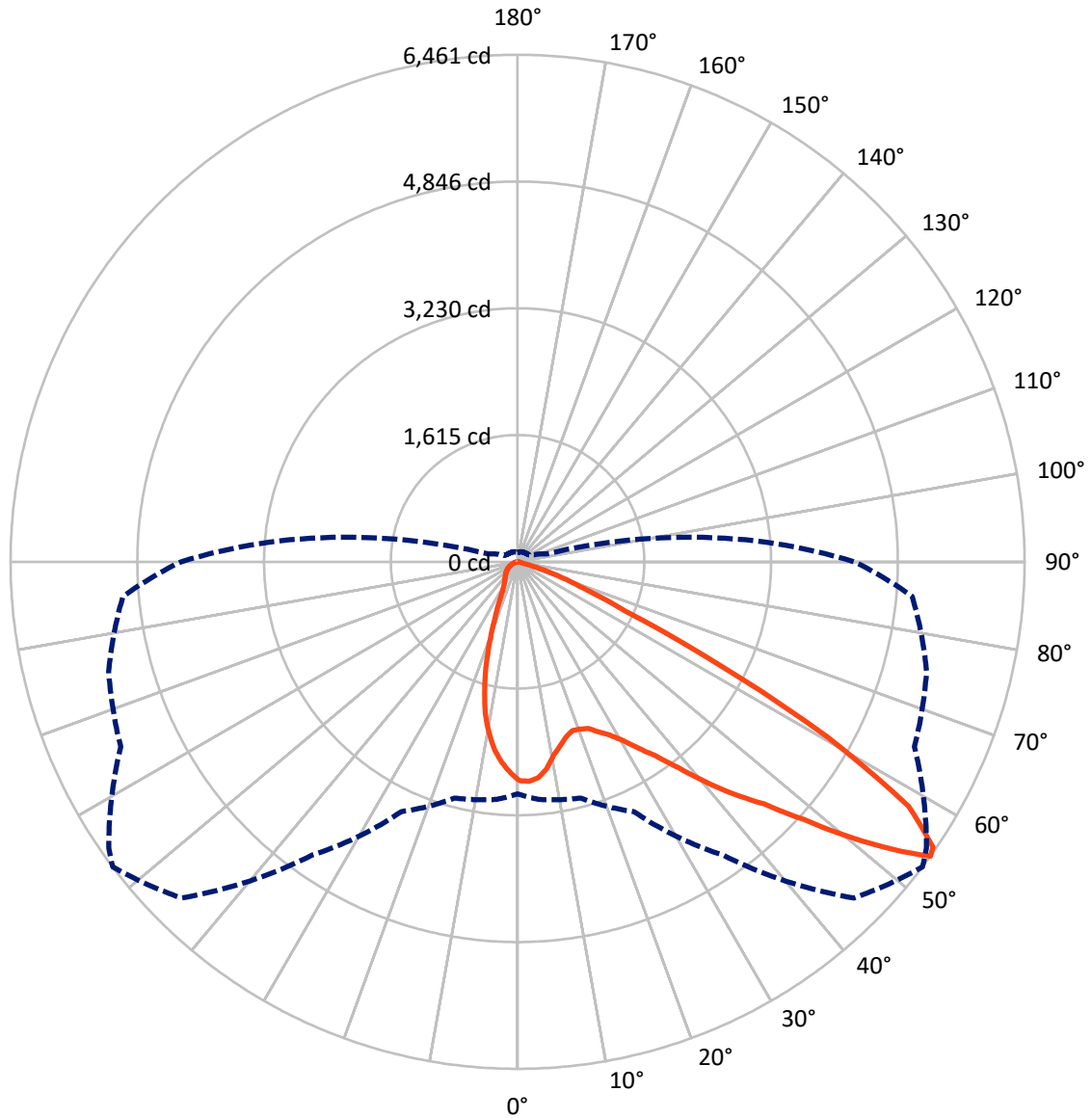
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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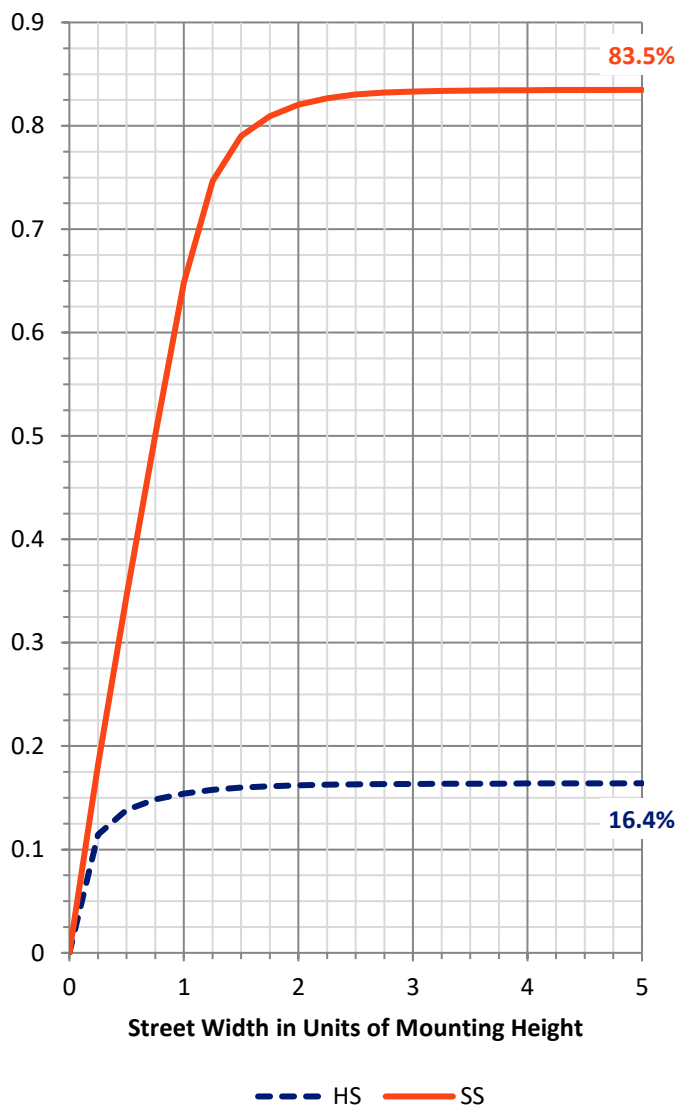
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1284.5	0.0	1284.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	6479.0	0.0	6479.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	7763.5	0.0	7763.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.2	3.1
10°-20°	548.5	7.1
20°-30°	779.6	10.0
30°-40°	1203.1	15.5
40°-50°	1886.3	24.3
50°-60°	2191.2	28.2
60°-70°	828.0	10.7
70°-80°	78.7	1.0
80°-90°	8.9	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°	7763.5	100.0
0°-180°	7763.5	100.0

**Coefficient of Utilization**



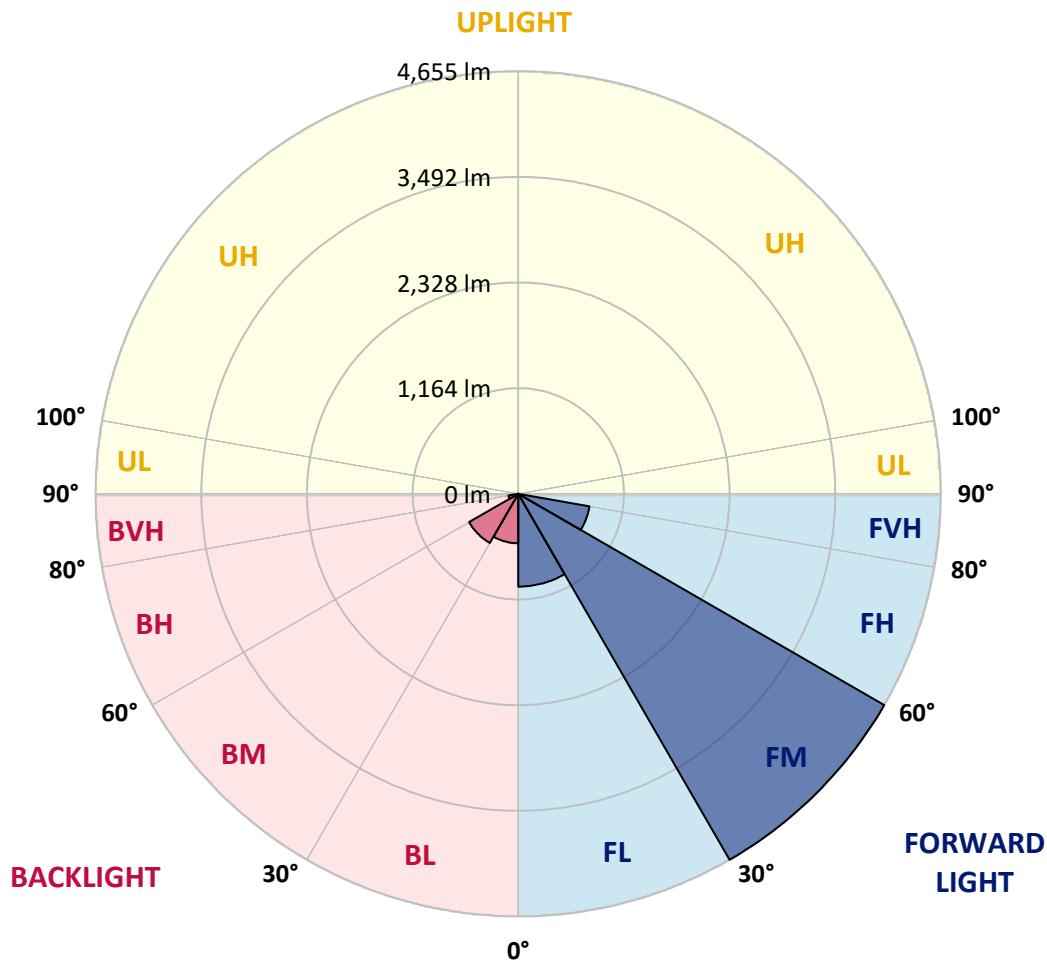
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.2	13.2			
FM (30°-60°)	4655.5	60.0			
FH (60°-80°)	796.6	10.3			G1/1800
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	545.1	7.0	B2/1000		
BM (30°-60°)	625.1	8.1	B1/1000		
BH (60°-80°)	110.1	1.4	B1/500		G1/500
BVH (80°-90°)	4.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5
2.5°	2774.0	2749.4	2774.0	2776.9	2794.3	2810.2	2800.1	2823.2	2810.2	2795.7	2791.4
5°	2549.8	2583.1	2584.6	2636.7	2625.1	2720.5	2762.5	2750.9	2821.8	2817.4	2807.3
7.5°	2348.8	2335.8	2353.1	2413.9	2490.6	2600.5	2661.3	2659.8	2761.0	2833.4	2826.1
10°	2162.3	2160.8	2196.9	2244.7	2309.8	2425.5	2509.4	2551.3	2708.9	2818.9	2834.8
12.5°	2036.4	2030.6	2069.7	2108.7	2211.4	2301.1	2408.1	2428.4	2609.2	2768.2	2794.3
15°	1954.0	1967.0	1969.9	2045.1	2110.2	2228.8	2312.7	2354.6	2562.8	2727.7	2827.6
17.5°	1939.5	1956.9	1958.3	2020.5	2089.9	2189.7	2263.5	2319.9	2523.8	2748.0	2829.0
20°	1968.5	1958.3	1967.0	2006.0	2074.0	2169.5	2276.5	2295.3	2510.8	2758.1	2844.9
22.5°	2050.9	2048.0	2026.3	2058.1	2105.8	2205.6	2306.9	2335.8	2548.4	2810.2	2858.0
25°	2142.0	2157.9	2137.7	2133.3	2166.6	2264.9	2399.4	2437.0	2674.3	2904.2	2898.4
27.5°	2312.7	2296.8	2296.8	2276.5	2267.8	2315.6	2499.3	2561.4	2814.5	3025.7	2944.7
30°	2476.1	2493.5	2480.5	2487.7	2429.8	2425.5	2641.0	2717.6	3063.3	3210.8	3043.1
32.5°	2735.0	2711.8	2733.5	2714.7	2638.1	2560.0	2833.4	2912.9	3364.2	3423.4	3190.6
35°	2950.5	2940.4	3033.0	3030.1	2905.6	2829.0	3037.3	3155.9	3573.8	3678.0	3364.2
37.5°	3257.1	3238.3	3343.9	3394.5	3283.1	3168.9	3329.4	3466.8	3769.1	3881.9	3542.1
40°	3572.4	3620.1	3761.8	3845.8	3727.2	3575.3	3686.7	3728.6	3899.3	4015.0	3663.5
42.5°	3971.6	4041.0	4185.6	4258.0	4247.9	4083.0	4049.7	4048.3	3993.3	3977.4	3753.2
45°	4354.9	4328.8	4551.6	4709.2	4836.5	4788.7	4399.7	4356.3	4142.2	4033.8	3776.3
47.5°	4522.6	4513.9	4665.8	4946.4	5380.3	5439.6	4908.8	4741.1	4393.9	4271.0	3902.2
50°	4305.7	4350.5	4500.9	4811.9	5477.2	5929.9	5533.6	5308.0	4687.5	4560.3	4200.1
52.5°	3597.0	3627.3	3770.5	4165.4	5147.4	6219.1	6132.4	6002.2	5227.0	5015.8	4719.3
54°	2957.7	3038.7	3116.8	3513.1	4560.3	6058.6	6460.7	6360.9	5578.4	5394.8	5046.2
55°	2575.9	2623.6	2680.1	3074.8	4153.8	5786.7	6423.1	6431.8	5814.2	5513.3	5266.1
57.5°	1881.6	1914.9	1857.0	2032.0	2852.2	4699.1	5874.9	6109.3	6132.4	5691.2	5400.5
60°	1437.7	1452.1	1387.0	1414.5	1773.2	3225.3	4544.3	4826.3	5532.1	4973.9	4574.7
62.5°	1115.1	1118.0	1116.6	1164.3	1222.1	1897.6	2842.0	3092.2	3813.9	3531.9	3106.7
65°	821.5	808.5	831.6	976.2	1042.8	1193.2	1496.9	1679.1	2072.6	1750.0	1251.1
67.5°	532.3	536.6	559.7	726.1	893.8	915.5	921.3	906.9	908.3	500.4	313.8
70°	319.6	326.9	319.6	410.8	639.2	656.6	600.2	585.8	457.0	118.6	117.1
72.5°	189.5	179.3	160.5	176.5	266.1	318.2	286.3	284.9	179.3	69.5	69.5
75°	79.6	72.3	59.3	53.5	70.9	68.0	68.0	60.8	47.8	46.3	43.4
77.5°	15.9	15.9	11.6	13.0	17.4	20.3	24.6	24.6	28.9	28.9	27.5
80°	0.0	1.4	4.3	8.7	13.0	18.8	21.7	21.7	24.6	24.6	20.3
82.5°	0.0	1.4	4.3	8.7	11.6	17.4	21.7	21.7	24.6	26.0	21.7
85°	0.0	1.4	4.3	7.2	11.6	14.5	14.5	13.0	10.1	8.7	5.8
87.5°	0.0	0.0	1.4	2.9	1.4	2.9	2.9	2.9	2.9	2.9	2.9
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°	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5	2788.5
2.5°	2801.5	2800.1	2765.3	2708.9	2695.9	2648.2	2642.4	2613.5	2629.4	2575.9	2570.1
5°	2778.4	2761.0	2719.0	2682.9	2577.3	2502.2	2442.8	2370.5	2328.6	2335.8	2308.3
7.5°	2811.7	2766.8	2693.1	2567.2	2438.5	2306.9	2236.0	2088.5	2034.9	1955.4	1943.9
10°	2776.9	2743.6	2629.4	2421.1	2243.2	2053.7	1887.4	1724.0	1599.6	1546.1	1534.5
12.5°	2774.0	2716.1	2525.3	2293.9	2036.4	1764.5	1522.9	1319.0	1196.1	1126.7	1110.8
15°	2729.2	2659.8	2408.1	2097.2	1741.4	1402.9	1139.7	943.0	849.0	808.5	820.0
17.5°	2733.5	2629.4	2291.0	1888.9	1450.7	1029.8	778.1	676.9	652.3	662.4	662.4
20°	2729.2	2561.4	2149.3	1648.8	1110.8	714.5	571.3	535.1	551.1	582.9	575.7
22.5°	2706.0	2529.6	2019.0	1395.7	817.1	529.4	458.4	459.9	484.5	523.6	532.3
25°	2723.4	2458.8	1854.1	1139.7	595.9	422.4	397.8	407.9	433.9	462.8	468.6
27.5°	2710.4	2408.1	1682.0	885.2	435.3	363.0	361.6	373.2	384.7	406.4	406.4
30°	2724.8	2361.8	1512.8	658.1	358.7	332.6	326.9	335.5	347.1	351.5	350.0
32.5°	2778.4	2327.2	1317.6	491.7	316.7	303.7	303.7	303.7	302.3	308.0	309.5
35°	2895.5	2332.9	1145.5	380.4	289.2	279.1	274.8	269.0	266.1	269.0	270.4
37.5°	3022.8	2330.1	967.6	324.0	269.0	260.3	250.2	241.6	240.1	243.0	238.7
40°	3079.2	2357.5	802.7	290.7	250.2	240.1	224.2	217.0	218.4	221.3	218.4
42.5°	3155.9	2366.1	695.7	264.7	232.9	217.0	206.8	198.2	196.7	201.1	199.6
45°	3154.4	2317.0	582.9	250.2	217.0	199.6	186.6	179.3	179.3	182.2	183.7
47.5°	3246.9	2309.8	500.4	237.2	205.4	188.0	172.1	166.3	164.9	164.9	162.0
50°	3462.5	2411.0	436.8	222.8	190.9	175.0	162.0	154.7	149.0	146.1	144.6
52.5°	3883.4	2726.3	387.6	205.4	175.0	162.0	150.4	144.6	137.4	130.1	128.7
54°	4291.2	3051.7	384.7	190.9	162.0	153.3	143.2	140.3	131.6	121.5	118.6
55°	4474.9	3241.2	394.9	179.3	153.3	147.5	138.8	135.9	127.2	115.7	114.2
57.5°	4626.7	3315.0	389.1	149.0	138.8	137.4	130.1	125.8	115.7	99.8	96.9
60°	3724.3	2506.5	279.1	131.6	127.2	124.4	118.6	115.7	102.7	85.3	83.9
62.5°	2353.1	1442.0	177.9	115.7	111.3	107.0	99.8	96.9	85.3	68.0	63.7
65°	1002.3	597.4	120.0	102.7	95.4	88.2	82.4	78.1	68.0	50.7	49.2
67.5°	260.3	212.6	99.8	89.7	79.6	69.5	65.1	57.9	46.3	34.7	33.3
70°	117.1	107.0	83.9	75.2	63.7	53.5	47.8	40.5	30.4	23.2	21.7
72.5°	69.5	68.0	63.7	56.4	47.8	40.5	34.7	27.5	20.3	13.0	13.0
75°	43.4	42.0	43.4	39.1	33.3	30.4	26.0	18.8	11.6	5.8	5.8
77.5°	26.0	26.0	26.0	24.6	23.2	23.2	18.8	11.6	5.8	1.4	1.4
80°	20.3	20.3	21.7	20.3	20.3	20.3	15.9	8.7	2.9	0.0	0.0
82.5°	20.3	21.7	24.6	23.2	20.3	17.4	14.5	8.7	2.9	0.0	0.0
85°	5.8	4.3	7.2	10.1	14.5	13.0	10.1	7.2	2.9	0.0	0.0
87.5°	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	1.4	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)