

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: P451968

Luminaire Tested: **GALN-SA2D-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11335 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

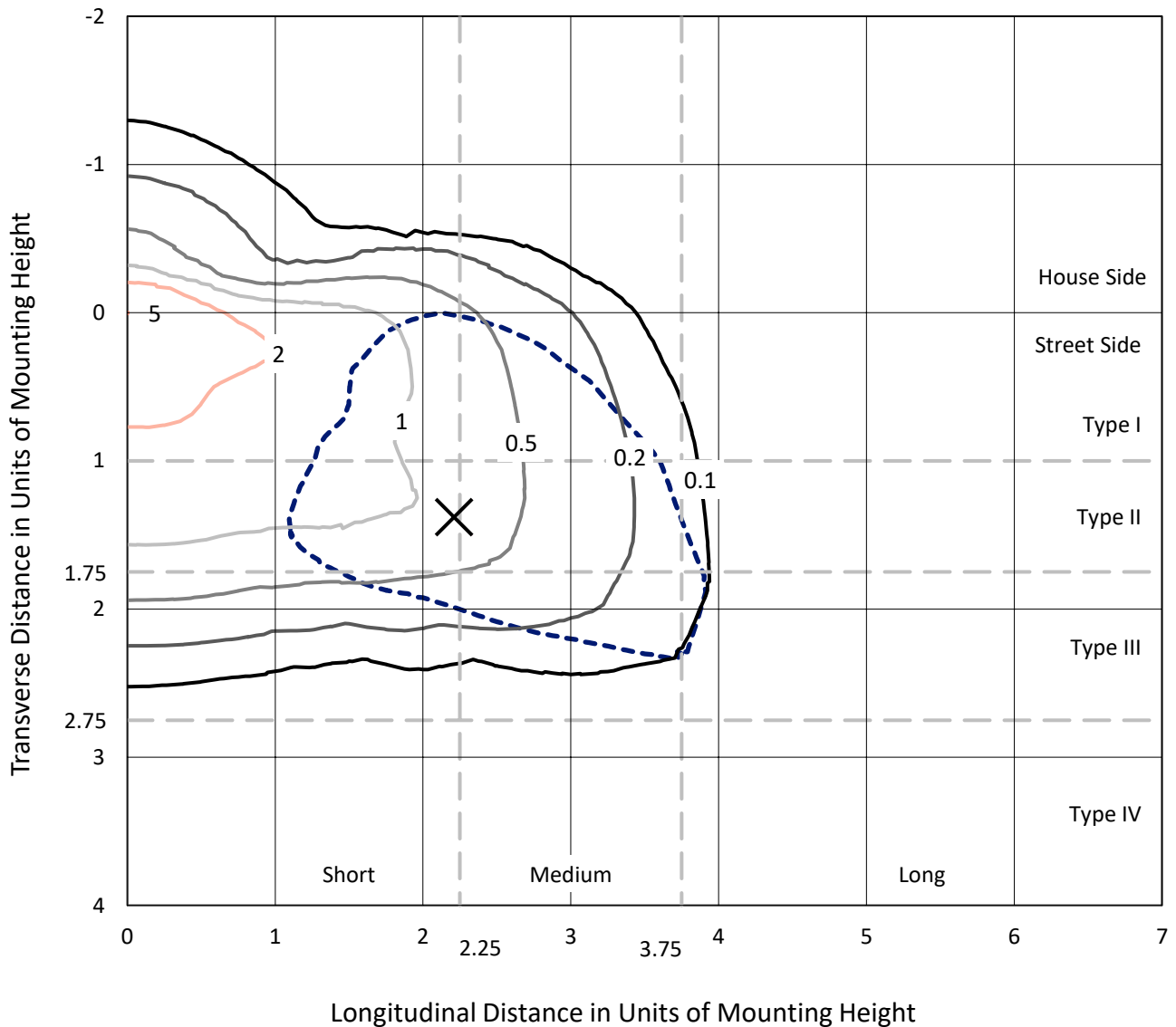
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

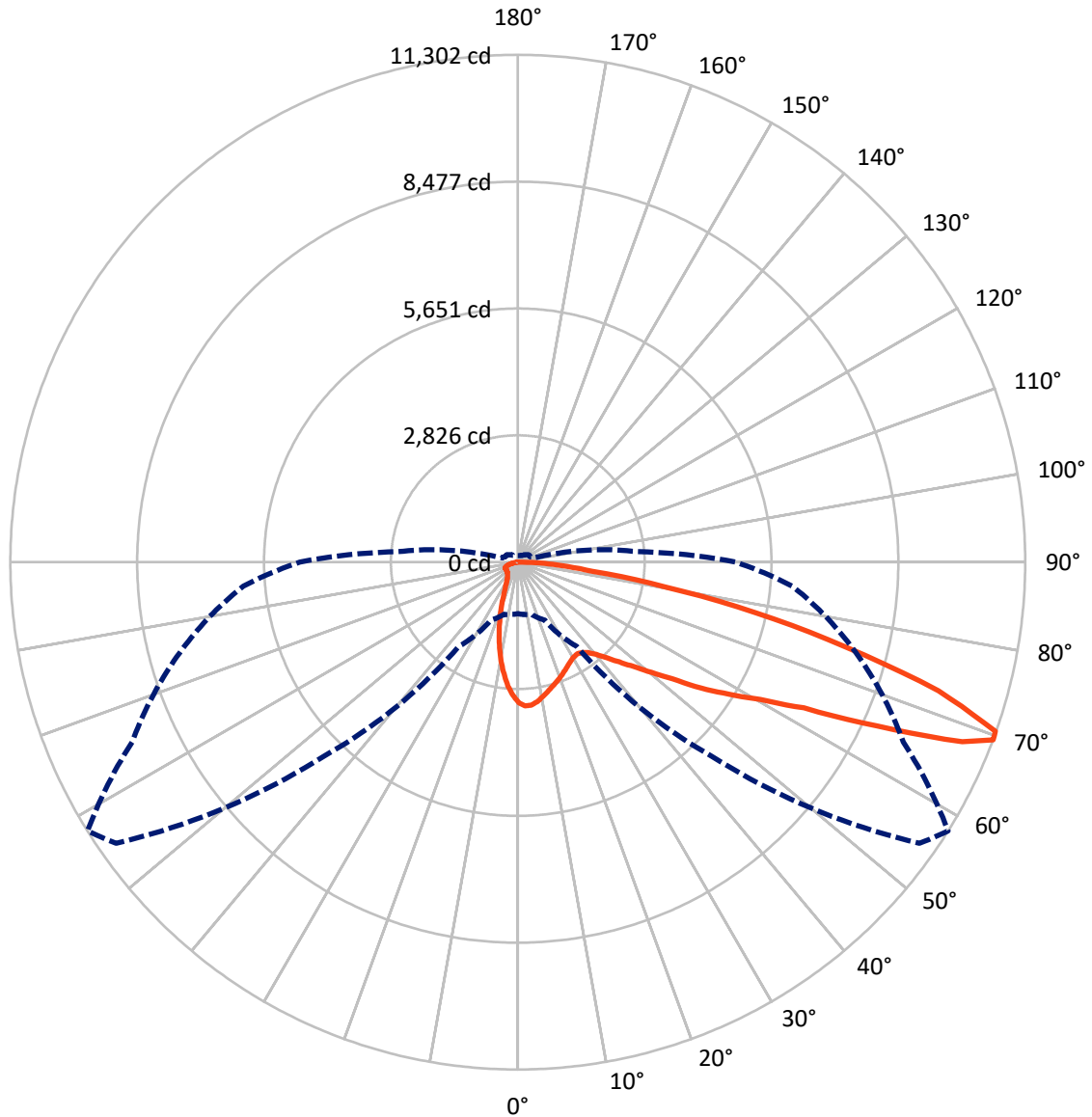
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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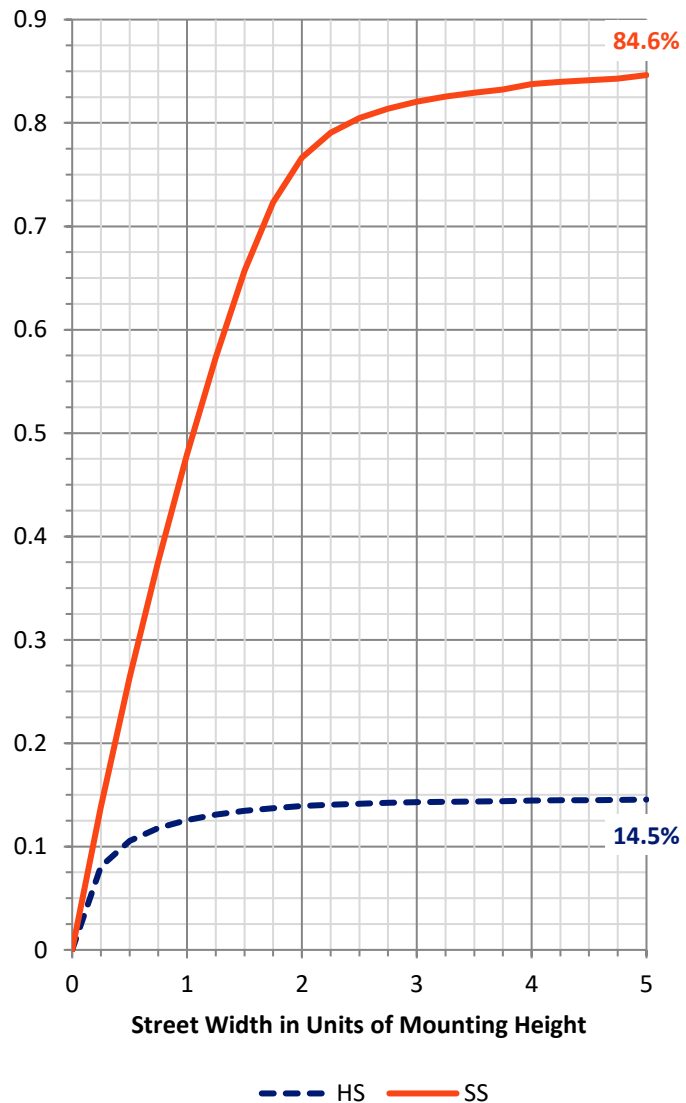
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.1	0.0	1661.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9673.8	0.0	9673.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	11335.0	0.0	11335.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.0	2.3
10°-20°	584.1	5.2
20°-30°	754.7	6.7
30°-40°	980.2	8.6
40°-50°	1425.1	12.6
50°-60°	2273.9	20.1
60°-70°	3037.7	26.8
70°-80°	1751.1	15.4
80°-90°	262.3	2.3
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°	11335.0	100.0
0°-180°	11335.0	100.0



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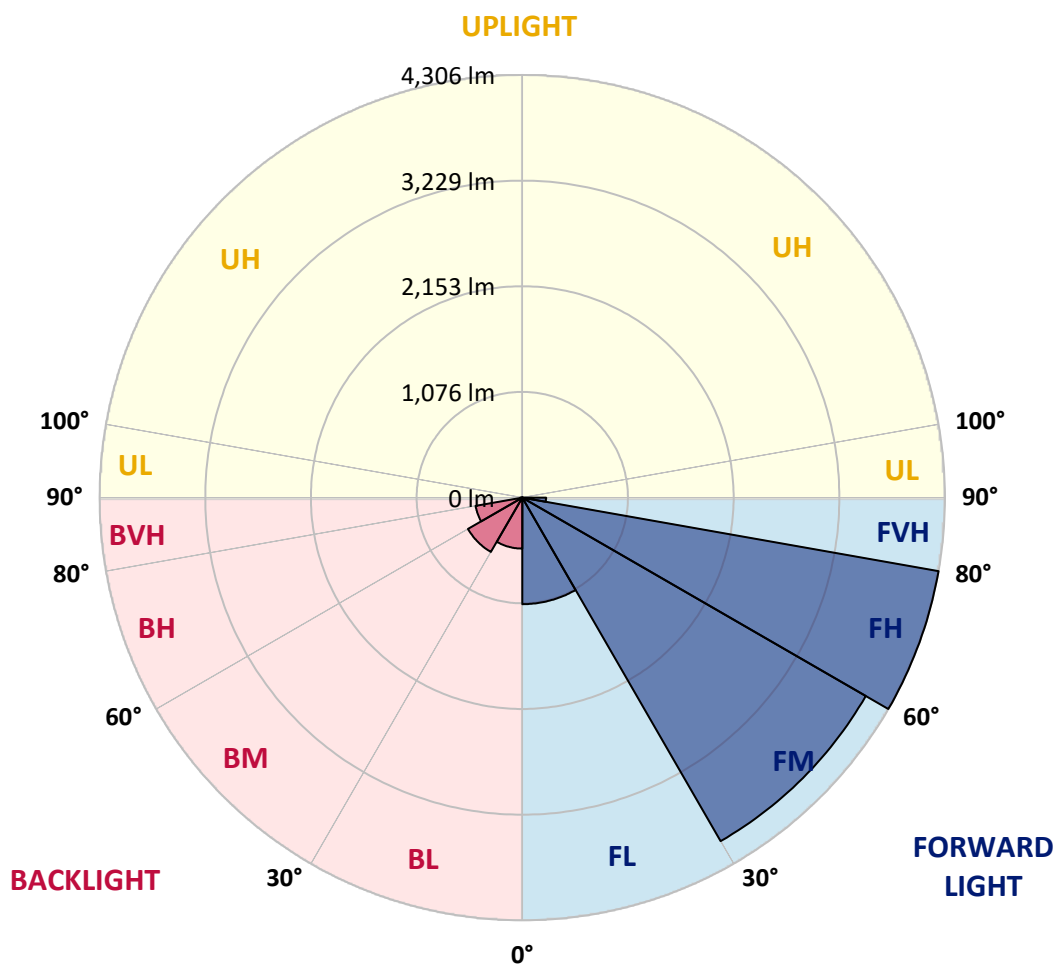
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1085.6	9.6			
FM	(30°-60°)	4040.3	35.6			
FH	(60°-80°)	4305.7	38.0			G2/5000
FVH	(80°-90°)	242.2	2.1			G3/500
BL	(0°-30°)	519.2	4.6	B2/1000		
BM	(30°-60°)	638.8	5.6	B1/1000		
BH	(60°-80°)	483.0	4.3	B1/500		G1/500
BVH	(80°-90°)	20.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3
2.5°	3248.6	3257.5	3255.0	3251.8	3246.8	3232.8	3210.1	3206.3	3191.8	3160.8	3122.2
5°	3198.7	3206.3	3206.9	3211.3	3217.7	3215.1	3198.7	3196.8	3175.3	3133.6	3069.1
7.5°	3027.4	3037.5	3059.6	3084.3	3106.4	3127.3	3132.3	3135.5	3122.2	3074.2	2988.2
10°	2834.6	2844.7	2854.8	2891.5	2945.8	2997.7	3040.7	3046.4	3049.5	3005.3	2900.3
12.5°	2620.9	2641.8	2663.3	2717.6	2790.3	2871.9	2947.7	2959.8	2981.2	2947.7	2824.5
15°	2439.5	2461.0	2492.0	2540.6	2628.5	2746.1	2852.9	2872.5	2914.9	2897.8	2753.7
17.5°	2313.7	2321.3	2342.8	2398.4	2493.2	2617.1	2760.0	2799.2	2866.8	2862.4	2693.0
20°	2214.4	2223.9	2237.2	2271.3	2370.0	2500.8	2673.4	2724.0	2815.6	2830.8	2632.9
22.5°	2172.7	2179.7	2177.8	2196.1	2263.1	2394.6	2585.5	2645.6	2770.1	2809.3	2577.3
25°	2175.2	2181.6	2172.1	2167.7	2207.5	2301.0	2493.9	2570.3	2733.4	2794.8	2526.7
27.5°	2217.6	2222.0	2204.3	2186.6	2189.8	2242.9	2418.0	2502.7	2702.5	2801.1	2484.4
30°	2274.5	2282.7	2271.3	2249.8	2226.5	2229.0	2369.3	2452.8	2687.9	2823.2	2464.1
32.5°	2347.8	2355.4	2350.4	2333.3	2302.9	2269.4	2357.3	2434.4	2689.2	2868.1	2459.7
35°	2424.9	2440.1	2448.3	2447.1	2422.4	2364.3	2404.7	2468.6	2719.5	2943.3	2485.6
37.5°	2512.2	2524.8	2560.2	2583.0	2560.2	2492.6	2511.6	2555.8	2786.5	3052.0	2542.5
40°	2596.9	2615.9	2667.7	2738.5	2729.6	2670.2	2674.6	2703.7	2904.8	3213.9	2653.8
42.5°	2685.4	2708.2	2798.6	2903.5	2924.4	2878.2	2890.2	2916.1	3072.9	3438.3	2844.7
45°	2799.2	2826.4	2937.6	3068.5	3150.7	3122.2	3156.4	3169.0	3298.0	3730.3	3096.3
47.5°	2945.8	2977.5	3114.6	3277.7	3394.0	3420.0	3479.4	3471.8	3576.7	4076.1	3422.5
50°	3193.0	3210.7	3340.3	3506.6	3666.5	3783.5	3847.9	3859.9	3922.5	4412.4	3787.2
52.5°	3487.0	3502.8	3596.3	3741.7	3942.1	4189.9	4349.2	4310.0	4325.2	4822.1	4213.9
55°	3817.6	3844.1	3903.6	4000.3	4260.1	4624.8	4944.7	4954.2	4786.0	5214.0	4623.0
57.5°	4073.6	4118.5	4220.3	4358.1	4687.4	5108.4	5538.3	5544.6	5329.7	5632.5	5074.3
60°	3944.7	3997.8	4230.4	4566.1	5248.2	5952.4	6247.6	6211.6	5858.8	6109.2	5624.9
62.5°	3388.4	3397.8	3736.0	4260.7	5420.7	7081.4	7303.3	7150.9	6564.9	6713.5	6184.4
65°	2192.9	2254.9	2522.9	3258.1	4853.7	7707.9	9153.0	8800.9	7554.9	7399.4	6652.8
67.5°	1384.4	1368.6	1479.9	1860.4	3338.4	7156.0	10731.5	10675.8	8849.5	7832.4	6540.9
69°	1148.0	1165.7	1203.6	1426.1	2297.3	6109.8	10918.0	11302.3	9477.3	7798.3	6134.4
70°	1041.2	1049.4	1089.2	1264.3	1772.6	5117.3	10612.0	11285.2	9723.8	7655.4	5839.9
72.5°	826.2	825.6	893.9	1051.9	1325.0	2921.2	8713.6	9797.8	9448.2	6990.4	4825.2
75°	627.7	637.8	713.1	890.1	1220.7	1596.2	6080.7	7545.4	7546.0	5521.2	3011.0
77.5°	452.6	458.9	546.8	747.2	1149.9	1294.0	4050.2	5411.9	5087.6	2529.9	946.3
80°	296.5	300.3	367.3	591.7	1036.7	1220.7	2401.6	3312.5	2399.7	671.3	312.9
82.5°	162.5	181.4	224.4	383.1	831.9	1127.8	1459.6	1676.5	900.2	299.0	163.1
85°	81.5	86.6	126.4	223.8	543.7	933.1	1016.5	961.5	464.6	148.6	84.7
87.5°	24.0	30.3	52.5	86.6	220.6	486.1	565.8	507.6	178.9	53.7	17.7
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°	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3	3132.3
2.5°	3106.4	3095.0	3044.5	2998.9	2957.2	2913.0	2875.7	2842.8	2846.0	2846.6	2813.1
5°	3035.6	3009.7	2913.6	2823.8	2748.0	2651.9	2569.7	2516.6	2490.1	2454.7	2467.3
7.5°	2939.5	2889.6	2756.2	2607.0	2467.3	2342.8	2207.5	2114.6	2055.1	1997.6	2005.2
10°	2840.3	2760.0	2565.9	2368.7	2187.9	1988.8	1816.2	1668.3	1558.3	1517.2	1490.0
12.5°	2738.5	2632.9	2386.4	2124.0	1874.3	1636.0	1391.4	1232.7	1111.3	1046.8	1055.1
15°	2645.6	2517.2	2199.3	1879.4	1555.1	1271.3	1027.3	876.2	791.5	773.8	783.9
17.5°	2559.6	2391.4	2024.2	1641.7	1263.0	953.3	771.9	686.5	652.4	642.9	642.3
20°	2471.1	2284.6	1827.6	1387.6	984.3	739.0	633.4	593.6	587.3	591.1	591.7
22.5°	2381.3	2152.5	1625.3	1135.4	783.9	604.3	553.8	543.0	548.1	556.9	558.2
25°	2298.5	2036.2	1430.6	914.1	625.8	531.0	506.4	506.4	517.7	531.0	531.6
27.5°	2230.2	1923.6	1236.5	725.7	524.1	477.9	469.7	474.1	489.9	500.0	500.7
30°	2174.0	1818.7	1053.2	581.6	460.8	435.6	433.7	441.2	452.6	462.1	462.7
32.5°	2131.6	1726.4	881.9	488.7	417.2	403.3	402.7	408.4	414.7	417.2	419.8
35°	2115.2	1649.9	725.1	429.9	388.1	379.3	379.3	378.7	381.2	382.5	383.7
37.5°	2128.5	1591.1	603.7	391.9	366.7	360.3	356.5	352.7	351.5	351.5	352.1
40°	2184.7	1560.2	513.3	367.3	351.5	342.0	335.0	330.6	326.2	327.5	328.7
42.5°	2304.2	1565.8	452.0	350.8	338.2	324.9	314.8	309.8	306.6	310.4	309.8
45°	2494.5	1622.7	412.8	339.5	324.9	307.9	298.4	293.3	293.3	299.0	300.9
47.5°	2760.6	1731.5	391.9	330.6	314.8	294.6	285.1	281.3	282.6	292.1	292.7
50°	3085.6	1920.5	388.1	326.2	309.8	285.1	274.4	270.6	273.7	283.8	285.1
52.5°	3444.0	2163.9	406.5	326.8	305.3	279.4	265.5	259.8	263.0	271.2	273.7
55°	3868.8	2468.6	453.9	329.4	299.0	276.3	259.2	246.5	250.3	256.0	256.7
57.5°	4302.5	2852.9	537.3	330.0	294.0	270.6	248.4	232.0	232.0	235.8	237.7
60°	4832.2	3271.4	647.3	330.6	294.6	262.3	233.9	215.6	213.0	214.9	215.6
62.5°	5358.1	3621.6	665.7	328.7	300.9	254.1	218.1	199.1	194.7	194.1	192.8
65°	5590.2	3556.5	545.6	319.9	307.9	249.1	205.5	183.3	175.7	173.2	173.2
67.5°	5212.1	3008.4	410.3	307.9	303.4	244.0	193.4	170.0	161.2	156.1	156.1
69°	4856.9	2675.9	368.5	299.6	292.1	235.8	185.9	163.1	152.3	146.7	144.8
70°	4582.5	2447.1	350.8	292.7	281.3	226.3	180.2	158.0	146.0	139.7	138.4
72.5°	3657.0	1919.9	307.2	266.1	239.6	190.3	159.9	142.2	130.9	123.9	122.0
75°	2107.6	1040.5	254.8	231.4	192.8	147.9	135.3	123.9	115.1	108.7	106.8
77.5°	648.6	402.1	184.6	182.7	141.6	114.4	108.1	103.7	97.4	90.4	89.1
80°	273.1	204.8	125.2	123.3	94.2	79.7	77.8	77.1	74.6	68.9	67.0
82.5°	149.8	115.7	87.2	75.9	56.9	46.1	48.0	48.7	46.8	41.1	37.3
85°	73.3	63.2	42.4	34.1	25.9	16.4	15.8	19.0	17.7	12.6	13.9
87.5°	14.5	17.7	11.4	5.1	2.5	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)