

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: P458722

Luminaire Tested: **GALN-SA2D-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11860 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

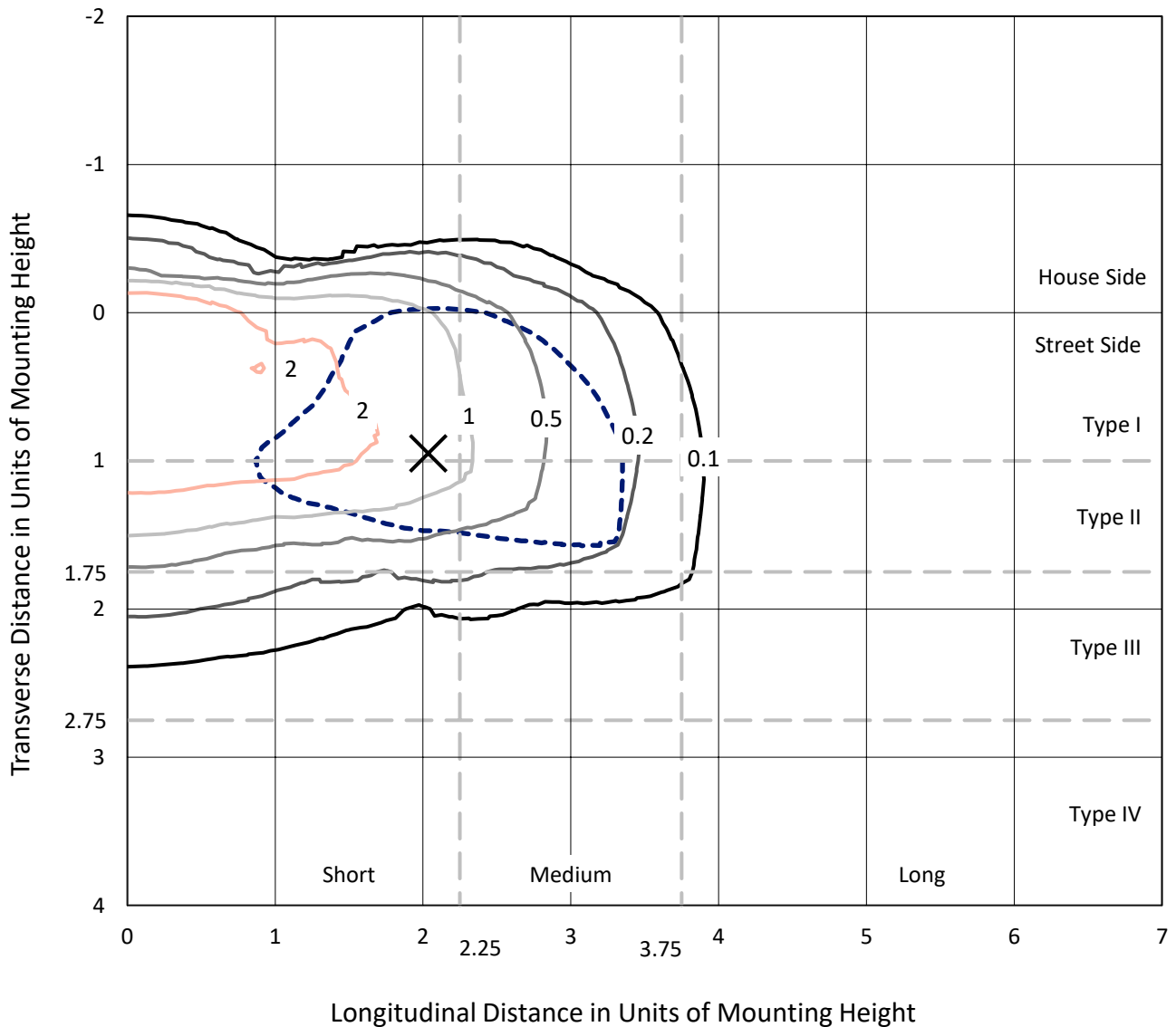
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

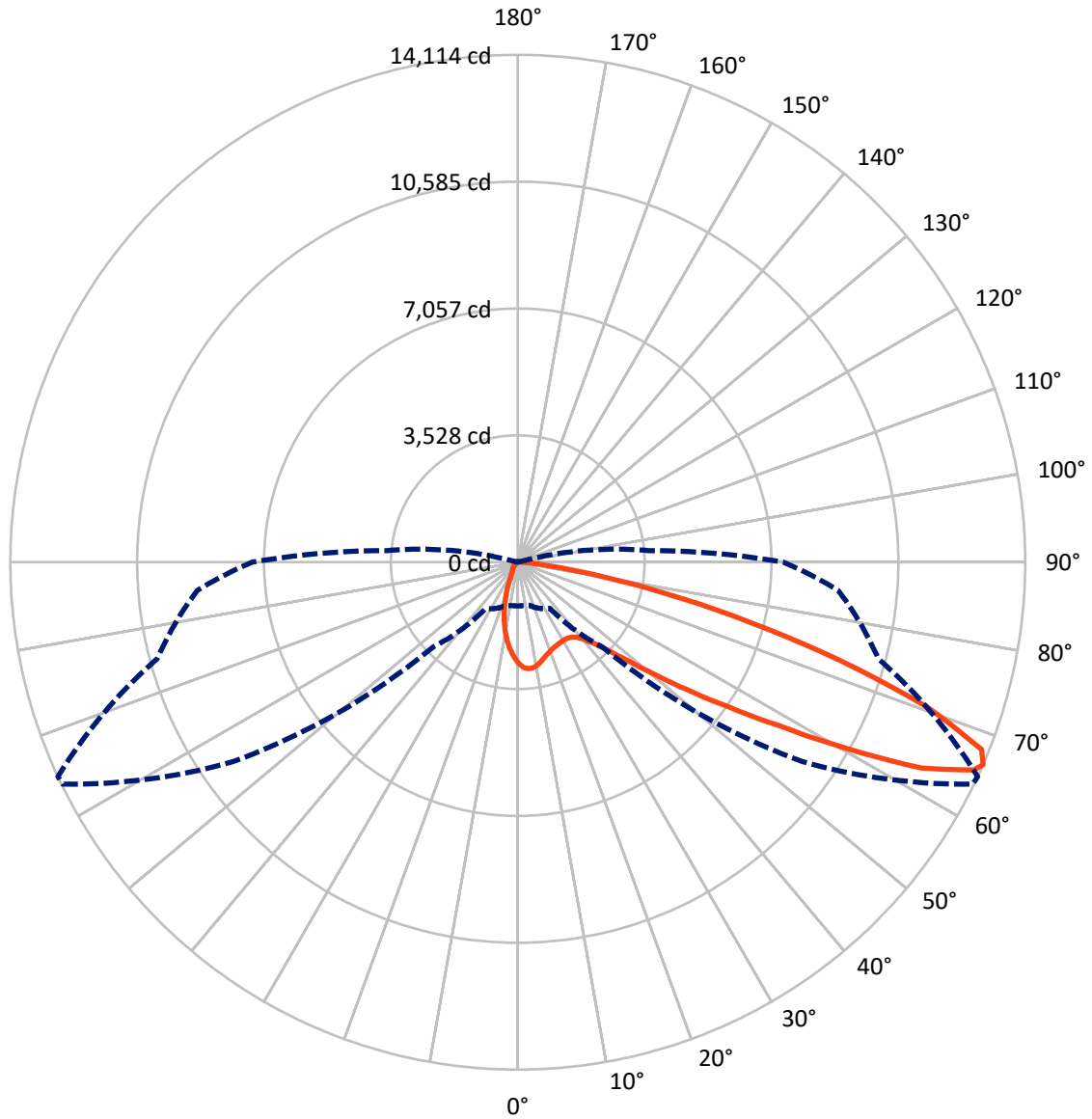
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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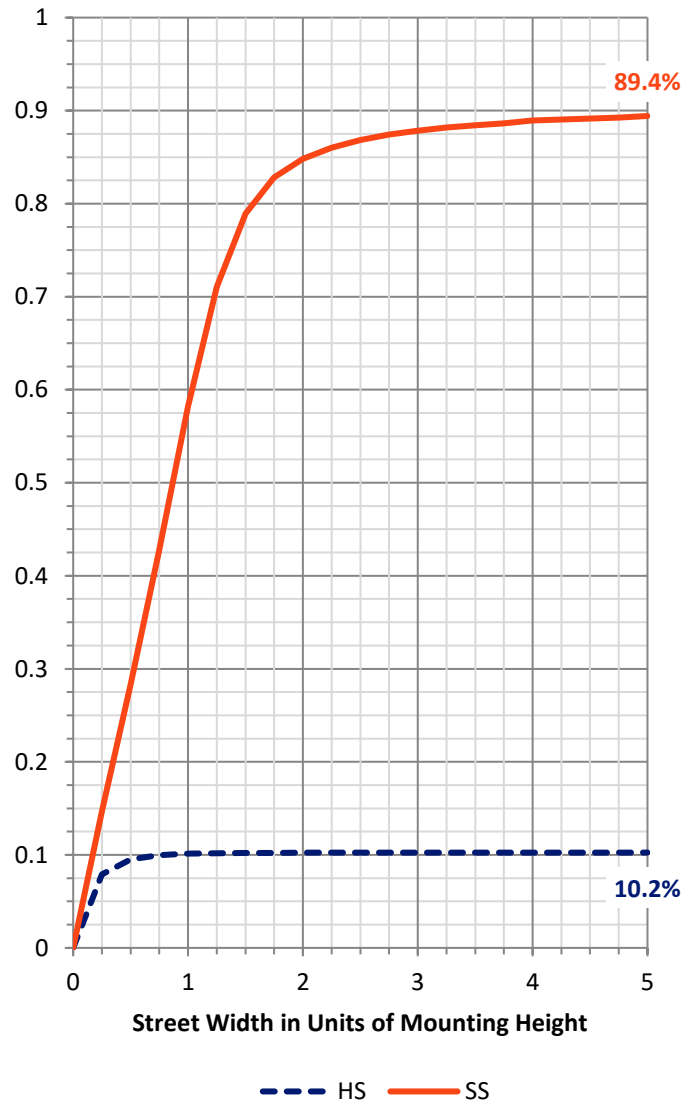
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1226.5	0.0	1226.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10633.5	0.0	10633.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	11860.0	0.0	11860.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	1.9
10°-20°	501.2	4.2
20°-30°	717.9	6.1
30°-40°	1048.6	8.8
40°-50°	1758.3	14.8
50°-60°	2934.3	24.7
60°-70°	3114.7	26.3
70°-80°	1410.6	11.9
80°-90°	144.3	1.2
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°	11860.0	100.0
0°-180°	11860.0	100.0



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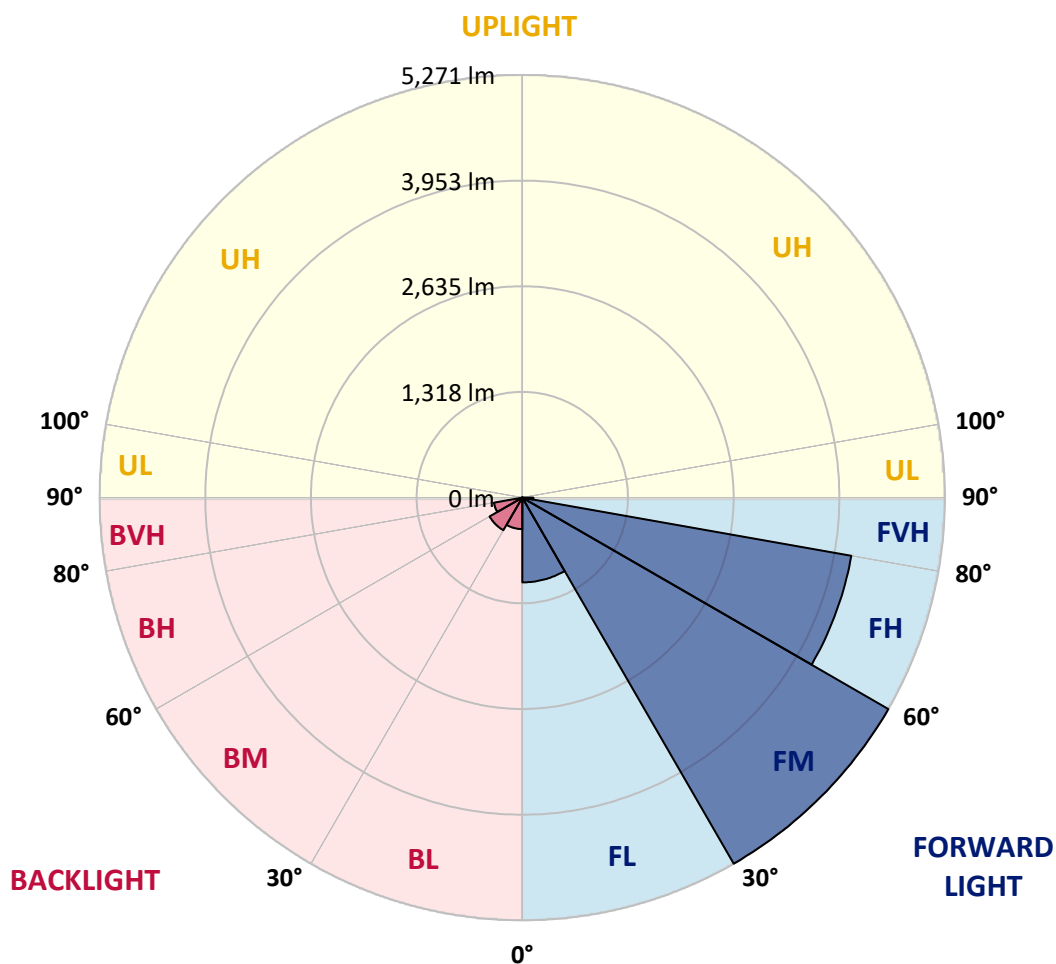
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1056.8	8.9			
FM (30°-60°)	5270.9	44.4			
FH (60°-80°)	4166.1	35.1			G2/5000
FVH (80°-90°)	139.7	1.2			G2/225
BL (0°-30°)	392.3	3.3	B1/500		
BM (30°-60°)	470.4	4.0	B1/1000		
BH (60°-80°)	359.2	3.0	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4
2.5°	2963.8	2967.0	2971.0	2976.7	2980.7	2968.6	2951.8	2932.6	2928.6	2887.7	2838.1
5°	2805.2	2810.0	2845.3	2864.5	2907.8	2947.0	2971.8	2975.1	2973.5	2935.0	2855.7
7.5°	2579.3	2593.0	2627.4	2661.0	2742.0	2816.4	2904.6	2966.2	2970.2	2959.8	2861.3
10°	2395.9	2404.7	2422.3	2488.8	2556.1	2669.9	2793.2	2909.4	2919.0	2960.6	2856.5
12.5°	2252.5	2265.3	2287.0	2338.2	2419.1	2526.5	2666.7	2822.9	2842.9	2945.4	2842.9
15°	2152.4	2158.8	2180.4	2230.9	2309.4	2408.7	2550.5	2732.3	2750.0	2925.4	2840.5
17.5°	2105.1	2112.3	2127.6	2167.6	2232.5	2324.6	2463.2	2659.4	2681.9	2912.6	2849.3
20°	2117.9	2124.4	2125.2	2146.0	2190.0	2267.7	2399.1	2591.4	2620.2	2904.6	2863.7
22.5°	2190.8	2191.6	2182.0	2172.4	2187.6	2243.7	2359.9	2548.1	2577.7	2903.0	2880.5
25°	2299.8	2302.2	2286.2	2252.5	2222.1	2250.9	2351.0	2520.1	2546.5	2899.0	2890.9
27.5°	2450.4	2449.6	2444.8	2388.7	2302.2	2283.0	2358.3	2504.8	2527.3	2887.7	2895.0
30°	2661.0	2654.6	2644.2	2580.9	2448.8	2360.7	2388.7	2495.2	2516.1	2871.7	2884.5
32.5°	2868.5	2892.5	2890.9	2830.9	2665.9	2499.2	2452.0	2508.0	2523.3	2861.3	2869.3
35°	3110.4	3109.6	3171.3	3148.9	2955.8	2676.3	2560.1	2550.5	2562.5	2868.5	2862.1
37.5°	3334.7	3355.5	3451.7	3474.9	3298.7	2926.2	2713.1	2641.8	2645.8	2917.4	2879.7
40°	3614.3	3654.3	3797.7	3875.4	3720.0	3297.1	2939.0	2809.2	2810.0	3037.5	2946.2
42.5°	3974.7	4038.0	4171.8	4301.6	4218.3	3736.0	3277.8	3074.4	3072.8	3249.0	3098.4
45°	4412.9	4457.0	4609.2	4815.0	4762.2	4348.8	3771.3	3485.3	3464.5	3595.9	3368.4
47.5°	4791.0	4851.1	5005.7	5240.4	5480.7	5097.0	4360.8	4050.0	4036.4	4147.8	3831.4
50°	4956.0	5008.9	5171.5	5500.7	6083.1	6079.1	5238.8	4874.3	4851.1	4911.2	4547.5
52.5°	4775.0	4824.7	4988.9	5399.0	6366.6	7275.8	6510.8	5908.5	5880.4	5803.5	5403.0
55°	4155.0	4195.8	4438.5	4909.6	6257.7	8073.7	8263.5	7186.1	7077.2	6778.4	6371.5
57.5°	3308.3	3287.5	3438.1	3985.2	5618.5	8341.2	10062.6	8777.8	8583.1	7621.1	7190.9
60°	2292.6	2356.7	2417.5	2778.0	4224.7	7877.4	11181.7	10778.8	10522.4	8450.1	7975.9
62.5°	1685.4	1727.8	1767.9	1934.5	2656.2	6289.7	11379.5	12834.2	12606.7	9330.5	8724.9
65°	1332.9	1336.1	1352.2	1516.4	1750.3	4090.1	10428.7	13993.3	13934.9	10178.0	9028.5
66°	1214.4	1215.2	1240.0	1416.2	1570.8	3330.7	9666.9	14081.4	14113.5	10381.4	8939.6
67.5°	1061.4	1058.2	1094.2	1272.8	1430.7	2401.5	8303.6	13724.2	13914.0	10537.7	8620.0
70°	822.7	818.7	862.7	1067.8	1317.7	1602.1	5519.1	11784.1	12090.1	10218.0	7626.7
72.5°	547.9	551.1	626.4	842.7	1257.6	1410.6	3320.3	8964.4	9397.0	8438.1	5999.8
75°	319.6	325.2	410.9	626.4	1091.8	1344.9	1879.2	6392.3	6668.6	5826.7	3737.6
77.5°	167.4	169.8	229.9	413.3	837.1	1248.8	1252.0	4083.7	4213.5	2831.7	1479.5
80°	88.9	86.5	123.4	249.1	575.9	1096.6	1015.7	2162.0	2247.7	841.1	374.1
82.5°	33.6	36.8	65.7	163.4	340.4	787.4	874.7	955.6	926.0	185.0	157.0
85°	6.4	8.0	28.0	96.9	171.4	329.2	644.8	468.6	434.2	69.7	90.5
87.5°	0.8	1.6	8.0	23.2	24.8	111.3	190.6	129.8	112.1	25.6	37.6
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°	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4	2812.4
2.5°	2814.0	2792.4	2720.3	2649.0	2576.1	2510.5	2465.6	2392.7	2374.3	2347.8	2332.6
5°	2808.4	2758.0	2619.4	2468.0	2327.0	2174.8	2058.7	1946.5	1886.4	1856.0	1844.8
7.5°	2792.4	2712.3	2496.0	2258.9	2033.0	1805.5	1607.7	1457.1	1360.2	1293.7	1248.8
10°	2760.4	2649.8	2352.6	2026.6	1685.4	1385.0	1134.3	943.6	796.2	749.8	751.4
12.5°	2727.5	2580.1	2192.4	1768.7	1345.7	966.9	700.9	550.3	479.8	456.6	451.8
15°	2697.1	2513.7	2035.4	1518.8	1002.1	626.4	451.8	398.9	379.7	375.7	374.9
17.5°	2681.1	2452.0	1868.0	1232.8	699.3	425.4	362.1	347.7	342.0	338.0	336.4
20°	2667.5	2398.3	1707.8	965.3	478.2	348.5	324.4	310.8	301.2	297.2	294.8
22.5°	2657.8	2343.0	1542.0	747.4	366.1	309.2	287.6	269.9	256.3	251.5	248.3
25°	2643.4	2282.2	1374.6	546.3	308.4	274.8	249.9	229.1	211.5	202.7	201.1
27.5°	2622.6	2213.3	1191.1	404.5	275.6	244.3	213.9	188.2	170.6	161.0	161.8
30°	2589.0	2141.2	1007.7	321.2	249.1	213.1	180.2	155.4	138.6	131.4	130.6
32.5°	2548.9	2053.9	839.5	275.6	225.1	185.0	150.6	129.0	116.2	110.5	109.7
35°	2511.3	1965.7	668.1	247.5	200.3	159.4	126.6	108.1	98.5	93.7	94.5
37.5°	2490.4	1887.2	520.7	225.1	180.2	137.0	108.9	92.9	84.1	80.1	79.3
40°	2504.0	1823.2	414.1	205.1	157.8	117.8	93.7	80.1	71.3	65.7	65.7
42.5°	2568.1	1795.1	334.0	185.8	137.0	101.7	81.7	68.9	59.3	53.7	54.5
45°	2763.6	1824.8	279.6	168.2	117.8	88.1	70.5	56.9	48.1	44.1	43.3
47.5°	3088.0	1936.1	241.9	149.8	100.9	75.3	59.3	47.3	38.4	35.2	34.4
50°	3655.1	2166.0	213.9	131.4	85.7	64.1	48.9	37.6	30.4	27.2	27.2
52.5°	4435.3	2667.5	193.9	110.5	72.1	54.5	40.1	30.4	24.0	21.6	20.8
55°	5250.8	3196.1	183.4	92.9	60.1	44.9	32.0	24.0	18.4	16.0	15.2
57.5°	6035.0	3611.1	171.4	75.3	48.1	34.4	24.8	18.4	12.8	11.2	10.4
60°	6787.2	3946.7	145.8	60.1	37.6	24.8	18.4	12.8	8.8	7.2	7.2
62.5°	7460.1	4142.2	114.5	48.1	28.8	17.6	12.0	9.6	6.4	4.8	4.8
65°	7538.6	3888.2	86.5	36.8	20.8	11.2	7.2	7.2	4.8	3.2	3.2
66°	7380.8	3672.8	76.1	33.6	18.4	9.6	6.4	5.6	4.0	2.4	2.4
67.5°	7028.3	3305.1	65.7	28.8	15.2	7.2	4.8	4.8	3.2	1.6	1.6
70°	6072.7	2699.5	52.1	21.6	11.2	5.6	3.2	3.2	2.4	1.6	1.6
72.5°	4628.4	2015.4	42.5	16.0	8.0	4.0	2.4	2.4	2.4	1.6	1.6
75°	2791.6	1085.4	32.8	12.0	7.2	3.2	1.6	2.4	3.2	2.4	1.6
77.5°	1028.5	369.3	25.6	9.6	5.6	3.2	1.6	1.6	3.2	2.4	2.4
80°	252.3	96.1	18.4	8.0	5.6	3.2	1.6	1.6	3.2	3.2	3.2
82.5°	117.0	40.9	12.8	7.2	5.6	3.2	1.6	1.6	2.4	3.2	3.2
85°	67.3	19.2	10.4	8.0	5.6	3.2	1.6	1.6	2.4	3.2	3.2
87.5°	27.2	9.6	9.6	8.0	6.4	4.0	1.6	1.6	1.6	2.4	2.4
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)