

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: P647876

Luminaire Tested: **GALN-SA4A-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647876
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-SA4A-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA 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: 11593.1 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

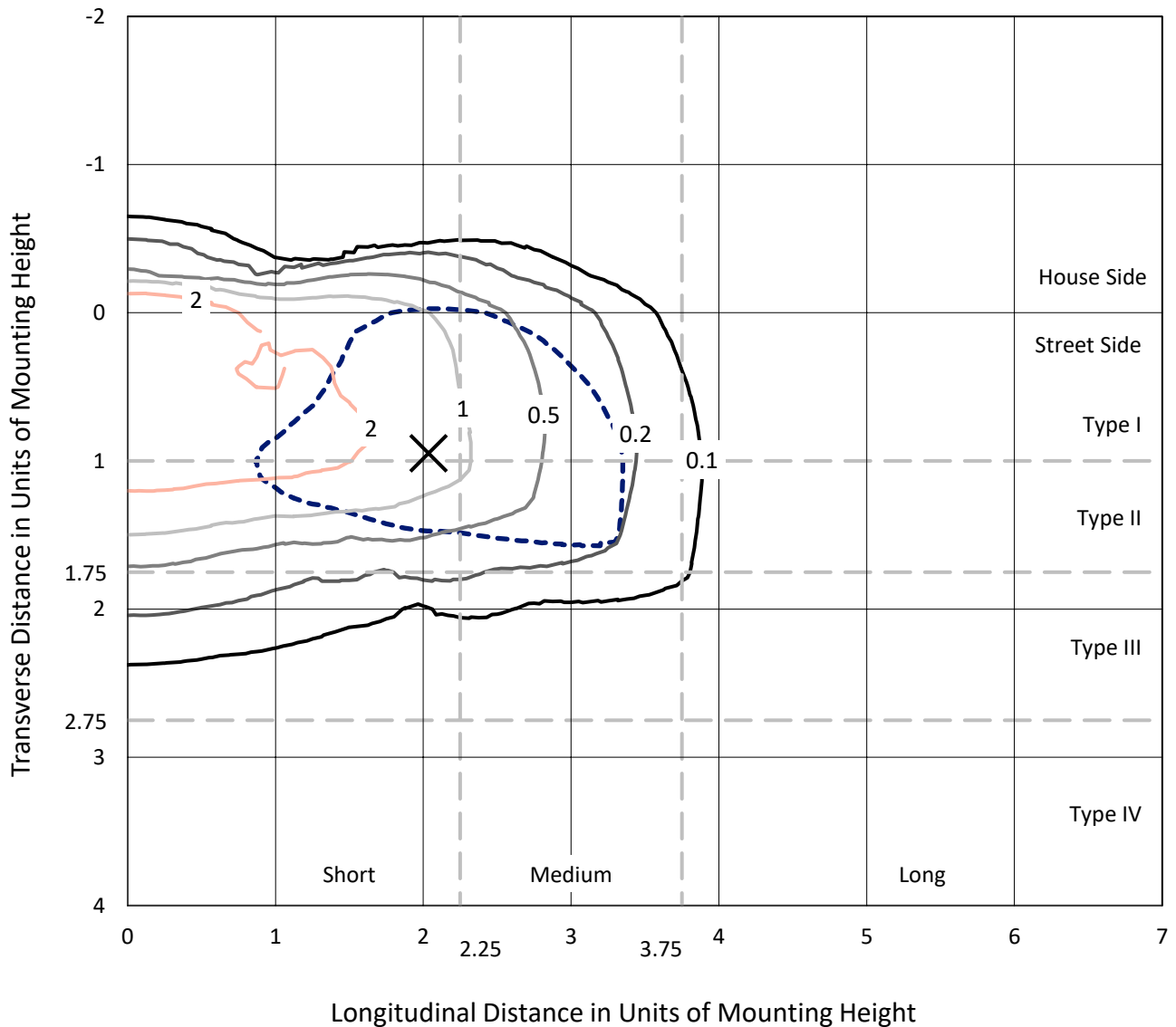
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

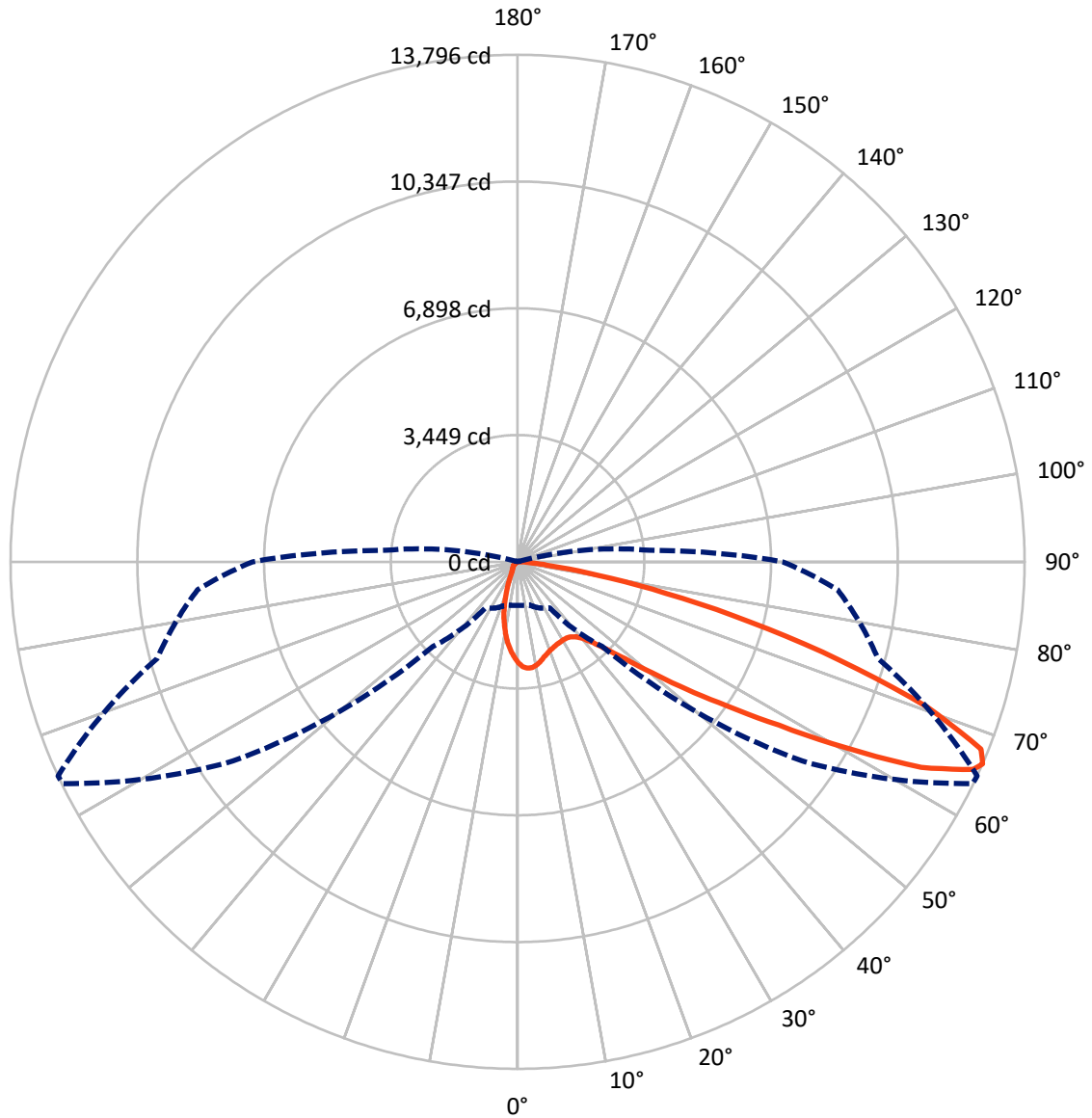
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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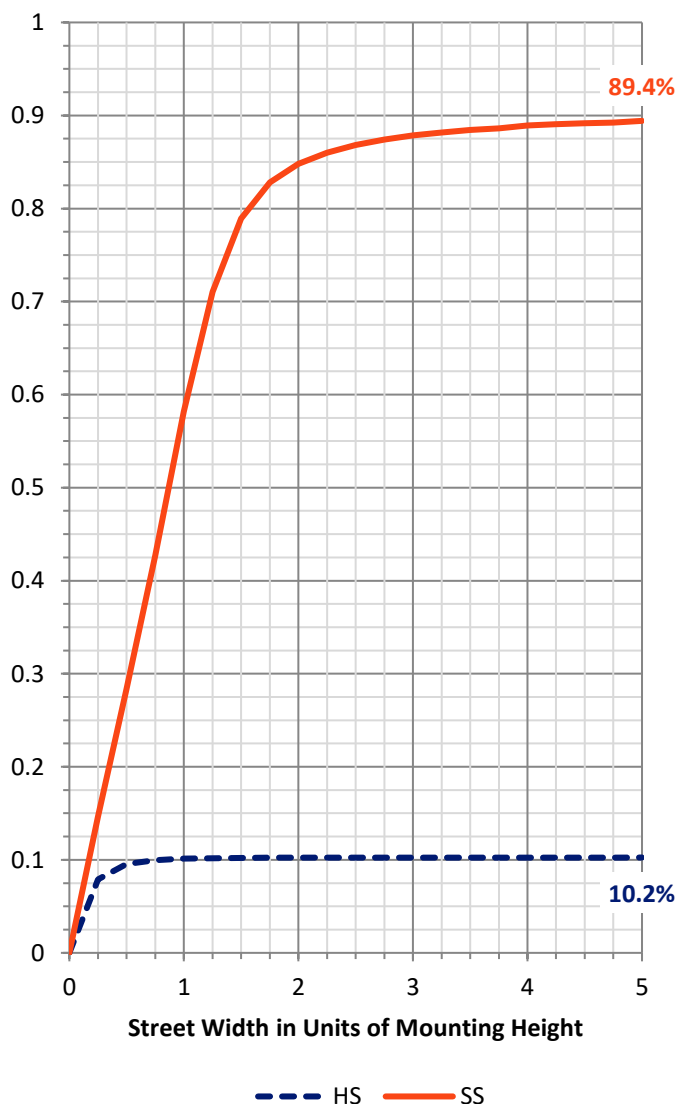
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.9	0.0	1198.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10394.2	0.0	10394.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	11593.1	0.0	11593.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	1.9
10°-20°	489.9	4.2
20°-30°	701.8	6.1
30°-40°	1025.0	8.8
40°-50°	1718.7	14.8
50°-60°	2868.3	24.7
60°-70°	3044.6	26.3
70°-80°	1378.9	11.9
80°-90°	141.1	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°	11593.1	100.0
0°-180°	11593.1	100.0

Coefficient of Utilization



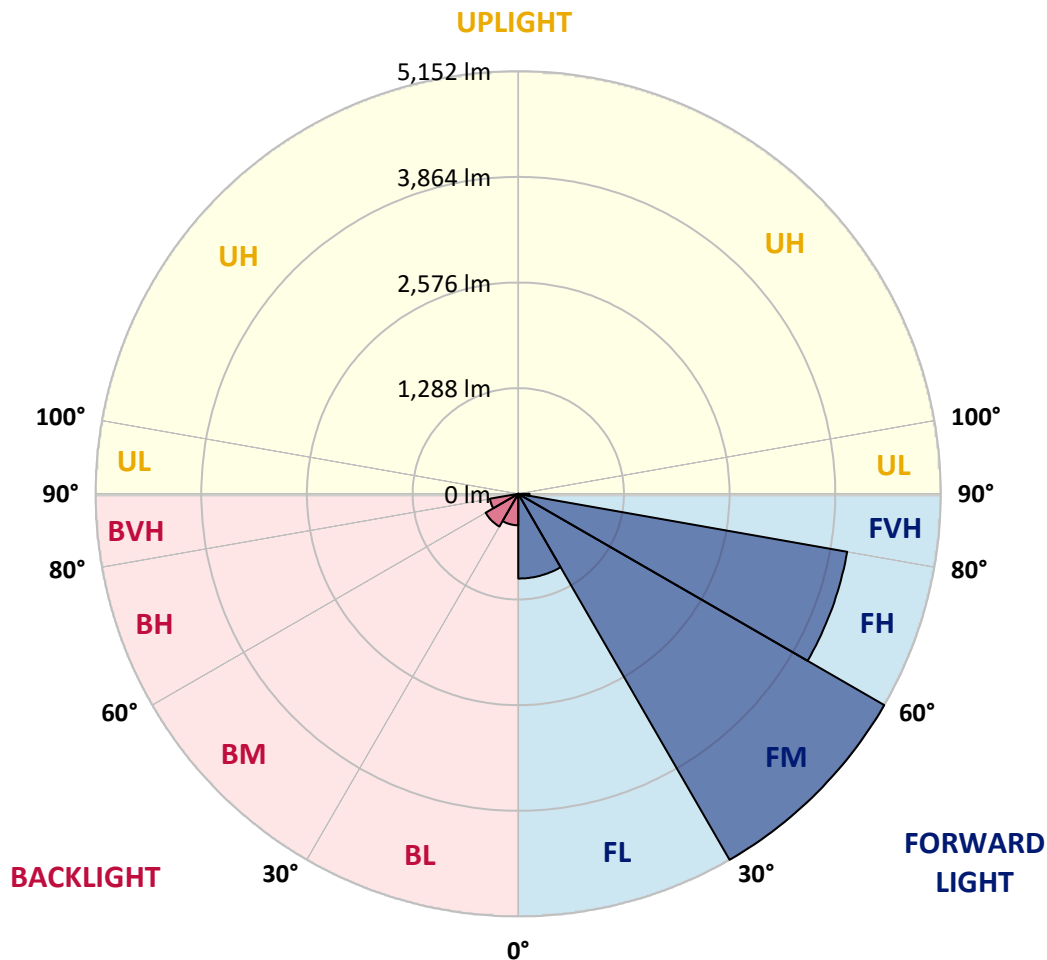
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1033.0	8.9			
FM (30°-60°)	5152.2	44.4			
FH (60°-80°)	4072.4	35.1			G2/5000
FVH (80°-90°)	136.6	1.2			G2/225
BL (0°-30°)	383.5	3.3	B1/500		
BM (30°-60°)	459.8	4.0	B1/1000		
BH (60°-80°)	351.1	3.0	B1/500		G1/500
BVH (80°-90°)	4.5	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°	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1
2.5°	2897.2	2900.3	2904.2	2909.7	2913.6	2901.9	2885.4	2866.6	2862.7	2822.7	2774.2
5°	2742.1	2746.8	2781.2	2800.0	2842.4	2880.7	2905.0	2908.1	2906.6	2869.0	2791.4
7.5°	2521.3	2534.6	2568.2	2601.1	2680.2	2753.0	2839.2	2899.5	2903.4	2893.3	2796.9
10°	2342.0	2350.6	2367.8	2432.8	2498.6	2609.7	2730.3	2843.9	2853.3	2894.0	2792.2
12.5°	2201.8	2214.3	2235.5	2285.6	2364.7	2469.6	2606.6	2759.3	2778.9	2879.2	2778.9
15°	2103.9	2110.2	2131.3	2180.7	2257.4	2354.5	2493.1	2670.8	2688.0	2859.6	2776.5
17.5°	2057.7	2064.8	2079.6	2118.8	2182.2	2272.3	2407.7	2599.6	2621.5	2847.1	2785.1
20°	2070.3	2076.5	2077.3	2097.7	2140.7	2216.7	2345.1	2533.0	2561.2	2839.2	2799.2
22.5°	2141.5	2142.3	2132.9	2123.5	2138.4	2193.2	2306.7	2490.7	2519.7	2837.7	2815.7
25°	2248.0	2250.3	2234.7	2201.8	2172.0	2200.2	2298.1	2463.3	2489.2	2833.8	2825.9
27.5°	2395.2	2394.4	2389.7	2334.9	2250.3	2231.6	2305.2	2448.4	2470.4	2822.7	2829.8
30°	2601.1	2594.9	2584.7	2522.8	2393.6	2307.5	2334.9	2439.0	2459.4	2807.1	2819.6
32.5°	2803.9	2827.5	2825.9	2767.1	2605.8	2443.0	2396.8	2451.6	2466.5	2796.9	2804.7
35°	3040.5	3039.7	3100.0	3078.1	2889.3	2616.0	2502.5	2493.1	2504.8	2803.9	2797.7
37.5°	3259.7	3280.1	3374.0	3396.7	3224.5	2860.4	2652.0	2582.3	2586.2	2851.8	2814.9
40°	3533.0	3572.1	3712.3	3788.2	3636.3	3222.9	2872.9	2746.0	2746.8	2969.2	2880.0
42.5°	3885.3	3947.2	4077.9	4204.8	4123.4	3652.0	3204.1	3005.2	3003.7	3175.9	3028.7
45°	4313.6	4356.7	4505.5	4706.7	4655.0	4251.0	3686.4	3406.9	3386.6	3515.0	3292.6
47.5°	4683.2	4741.9	4893.0	5122.5	5357.4	4982.3	4262.7	3958.9	3945.6	4054.5	3745.2
50°	4844.5	4896.2	5055.1	5376.9	5946.2	5942.3	5120.9	4764.6	4741.9	4800.7	4445.2
52.5°	4667.5	4716.1	4876.6	5277.5	6223.4	7112.1	6364.3	5775.5	5748.1	5672.9	5281.4
55°	4061.5	4101.4	4338.7	4799.1	6116.9	7891.9	8077.5	7024.4	6917.9	6625.8	6228.1
57.5°	3233.9	3213.5	3360.7	3895.5	5492.0	8153.5	9836.2	8580.3	8389.9	7449.5	7029.1
60°	2240.9	2303.6	2363.1	2715.4	4129.6	7700.1	10930.1	10536.2	10285.6	8259.9	7796.4
62.5°	1647.4	1688.9	1728.1	1890.9	2596.4	6148.2	11123.5	12545.4	12323.0	9120.5	8528.6
65°	1302.9	1306.0	1321.7	1482.2	1710.9	3998.1	10194.0	13678.4	13621.2	9949.0	8825.3
66°	1187.0	1187.8	1212.1	1384.3	1535.5	3255.8	9449.4	13764.5	13795.8	10147.8	8738.4
67.5°	1037.5	1034.3	1069.6	1244.2	1398.4	2347.4	8116.7	13415.3	13600.9	10300.5	8425.9
70°	804.1	800.2	843.3	1043.7	1288.0	1566.0	5394.9	11518.9	11818.0	9988.1	7455.0
72.5°	535.6	538.7	612.3	823.7	1229.3	1378.9	3245.6	8762.7	9185.5	8248.2	5864.7
75°	312.4	317.9	401.7	612.3	1067.2	1314.7	1836.9	6248.4	6518.6	5695.6	3653.6
77.5°	163.6	166.0	224.7	404.0	818.2	1220.7	1223.8	3991.8	4118.7	2767.9	1446.2
80°	86.9	84.6	120.6	243.5	563.0	1071.9	992.8	2113.3	2197.1	822.2	365.7
82.5°	32.9	36.0	64.2	159.7	332.8	769.7	855.0	934.1	905.1	180.9	153.5
85°	6.3	7.8	27.4	94.7	167.6	321.8	630.3	458.1	424.4	68.1	88.5
87.5°	0.8	1.6	7.8	22.7	24.3	108.8	186.4	126.8	109.6	25.1	36.8
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°	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1	2749.1
2.5°	2750.7	2729.5	2659.1	2589.4	2518.1	2453.9	2410.1	2338.8	2320.8	2295.0	2280.1
5°	2745.2	2695.9	2560.4	2412.4	2274.6	2125.8	2012.3	1902.7	1844.0	1814.2	1803.2
7.5°	2729.5	2651.2	2439.8	2208.1	1987.3	1764.9	1571.5	1424.3	1329.5	1264.5	1220.7
10°	2698.2	2590.2	2299.7	1981.0	1647.4	1353.8	1108.7	922.4	778.3	732.9	734.5
12.5°	2666.1	2522.0	2143.1	1728.9	1315.4	945.1	685.1	537.9	469.0	446.3	441.6
15°	2636.4	2457.1	1989.6	1484.6	979.5	612.3	441.6	389.9	371.1	367.2	366.4
17.5°	2620.7	2396.8	1826.0	1205.0	683.6	415.8	353.9	339.8	334.3	330.4	328.9
20°	2607.4	2344.3	1669.4	943.5	467.5	340.6	317.1	303.8	294.4	290.5	288.1
22.5°	2598.0	2290.3	1507.3	730.5	357.8	302.2	281.1	263.9	250.6	245.9	242.7
25°	2583.9	2230.8	1343.6	534.0	301.5	268.6	244.3	223.9	206.7	198.1	196.5
27.5°	2563.5	2163.4	1164.3	395.4	269.4	238.8	209.1	184.0	166.8	157.4	158.2
30°	2530.7	2093.0	985.0	314.0	243.5	208.3	176.2	151.9	135.5	128.4	127.6
32.5°	2491.5	2007.6	820.6	269.4	220.0	180.9	147.2	126.1	113.5	108.1	107.3
35°	2454.7	1921.5	653.0	241.9	195.8	155.8	123.7	105.7	96.3	91.6	92.4
37.5°	2434.3	1844.7	509.0	220.0	176.2	133.9	106.5	90.8	82.2	78.3	77.5
40°	2447.7	1782.1	404.8	200.4	154.3	115.1	91.6	78.3	69.7	64.2	64.2
42.5°	2510.3	1754.7	326.5	181.7	133.9	99.4	79.9	67.3	57.9	52.5	53.2
45°	2701.4	1783.7	273.3	164.4	115.1	86.1	68.9	55.6	47.0	43.1	42.3
47.5°	3018.5	1892.5	236.5	146.4	98.7	73.6	57.9	46.2	37.6	34.5	33.7
50°	3572.9	2117.2	209.1	128.4	83.8	62.6	47.8	36.8	29.8	26.6	26.6
52.5°	4335.5	2607.4	189.5	108.1	70.5	53.2	39.2	29.8	23.5	21.1	20.4
55°	5132.6	3124.2	179.3	90.8	58.7	43.8	31.3	23.5	18.0	15.7	14.9
57.5°	5899.2	3529.8	167.6	73.6	47.0	33.7	24.3	18.0	12.5	11.0	10.2
60°	6634.4	3857.9	142.5	58.7	36.8	24.3	18.0	12.5	8.6	7.0	7.0
62.5°	7292.2	4049.0	112.0	47.0	28.2	17.2	11.7	9.4	6.3	4.7	4.7
65°	7368.9	3800.8	84.6	36.0	20.4	11.0	7.0	7.0	4.7	3.1	3.1
66°	7214.6	3590.1	74.4	32.9	18.0	9.4	6.3	5.5	3.9	2.3	2.3
67.5°	6870.1	3230.7	64.2	28.2	14.9	7.0	4.7	4.7	3.1	1.6	1.6
70°	5936.0	2638.7	50.9	21.1	11.0	5.5	3.1	3.1	2.3	1.6	1.6
72.5°	4524.3	1970.0	41.5	15.7	7.8	3.9	2.3	2.3	2.3	1.6	1.6
75°	2728.8	1061.0	32.1	11.7	7.0	3.1	1.6	2.3	3.1	2.3	1.6
77.5°	1005.4	361.0	25.1	9.4	5.5	3.1	1.6	1.6	3.1	2.3	2.3
80°	246.6	94.0	18.0	7.8	5.5	3.1	1.6	1.6	3.1	3.1	3.1
82.5°	114.3	39.9	12.5	7.0	5.5	3.1	1.6	1.6	2.3	3.1	3.1
85°	65.8	18.8	10.2	7.8	5.5	3.1	1.6	1.6	2.3	3.1	3.1
87.5°	26.6	9.4	9.4	7.8	6.3	3.9	1.6	1.6	1.6	2.3	2.3
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)