

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: P652276

Luminaire Tested: **GALN-SA3B-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652276
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-SA3B-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA 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: 11691.6 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

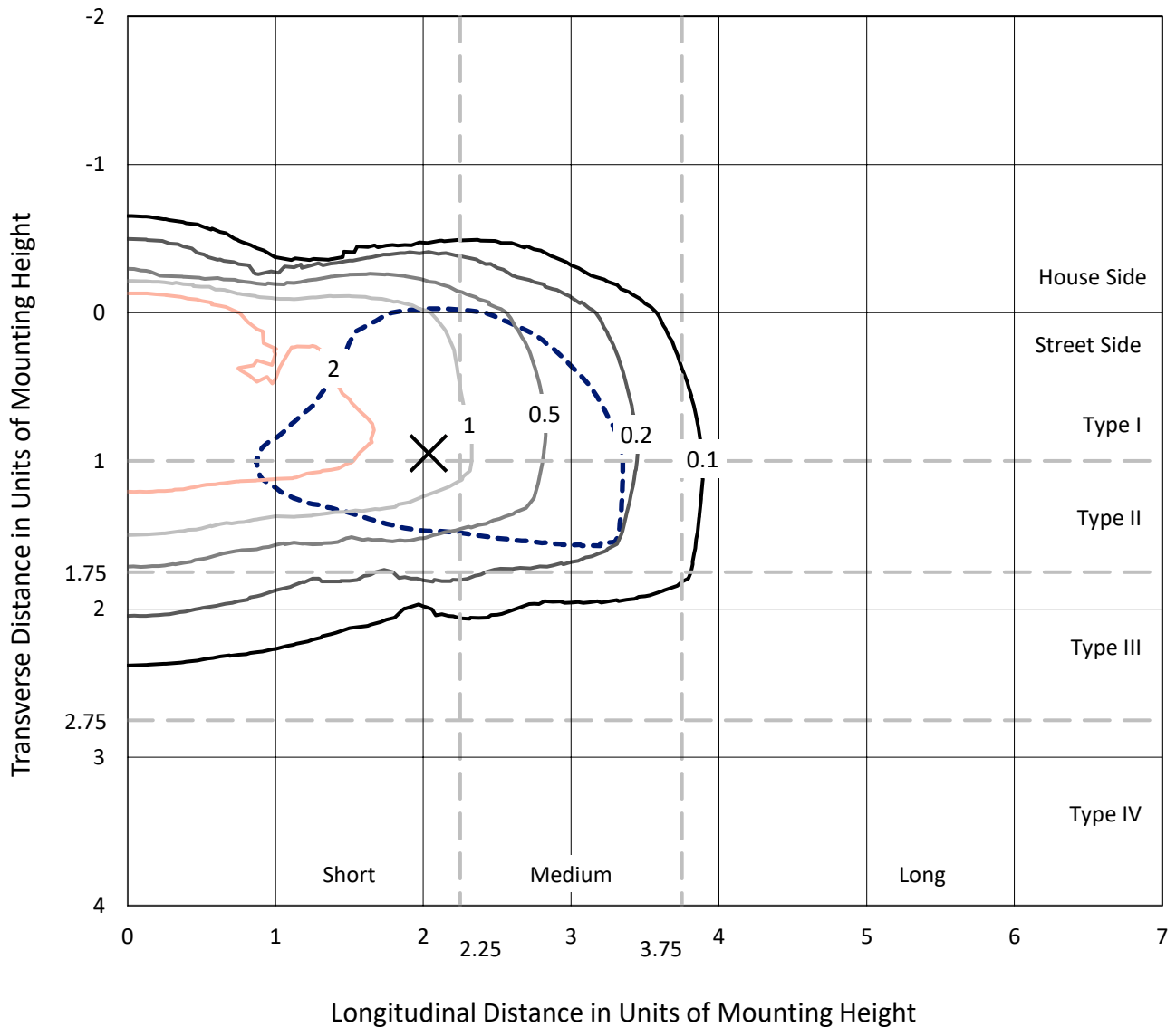
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

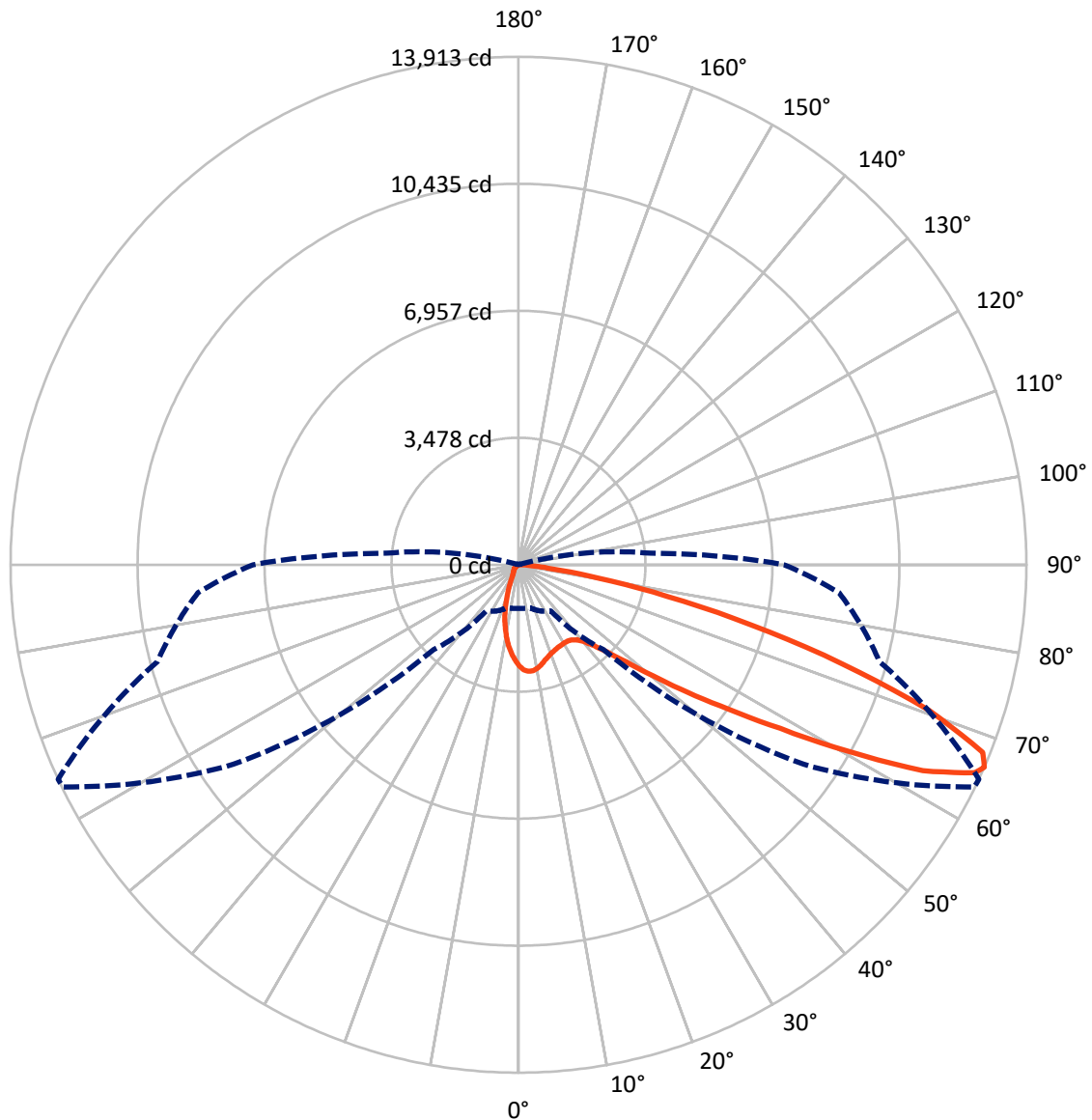
✕ Max cd
 - - - 1/2 Max cd



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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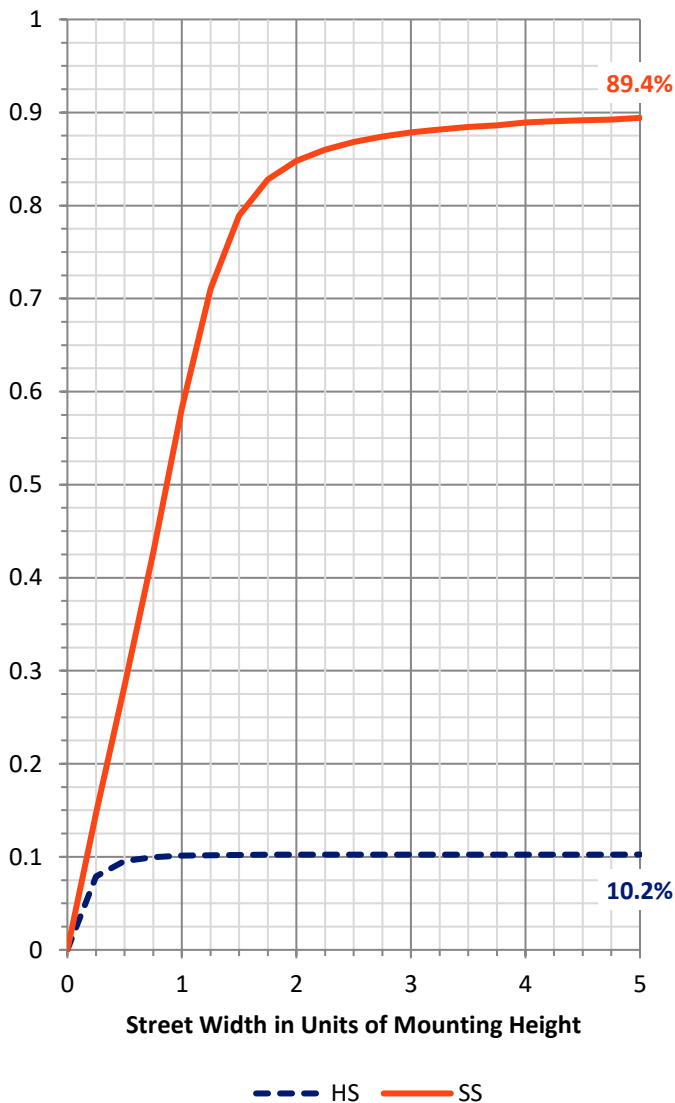
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.1	0.0	1209.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10482.5	0.0	10482.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	11691.6	0.0	11691.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	1.9
10°-20°	494.1	4.2
20°-30°	707.7	6.1
30°-40°	1033.7	8.8
40°-50°	1733.3	14.8
50°-60°	2892.7	24.7
60°-70°	3070.5	26.3
70°-80°	1390.6	11.9
80°-90°	142.3	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°	11691.6	100.0
0°-180°	11691.6	100.0



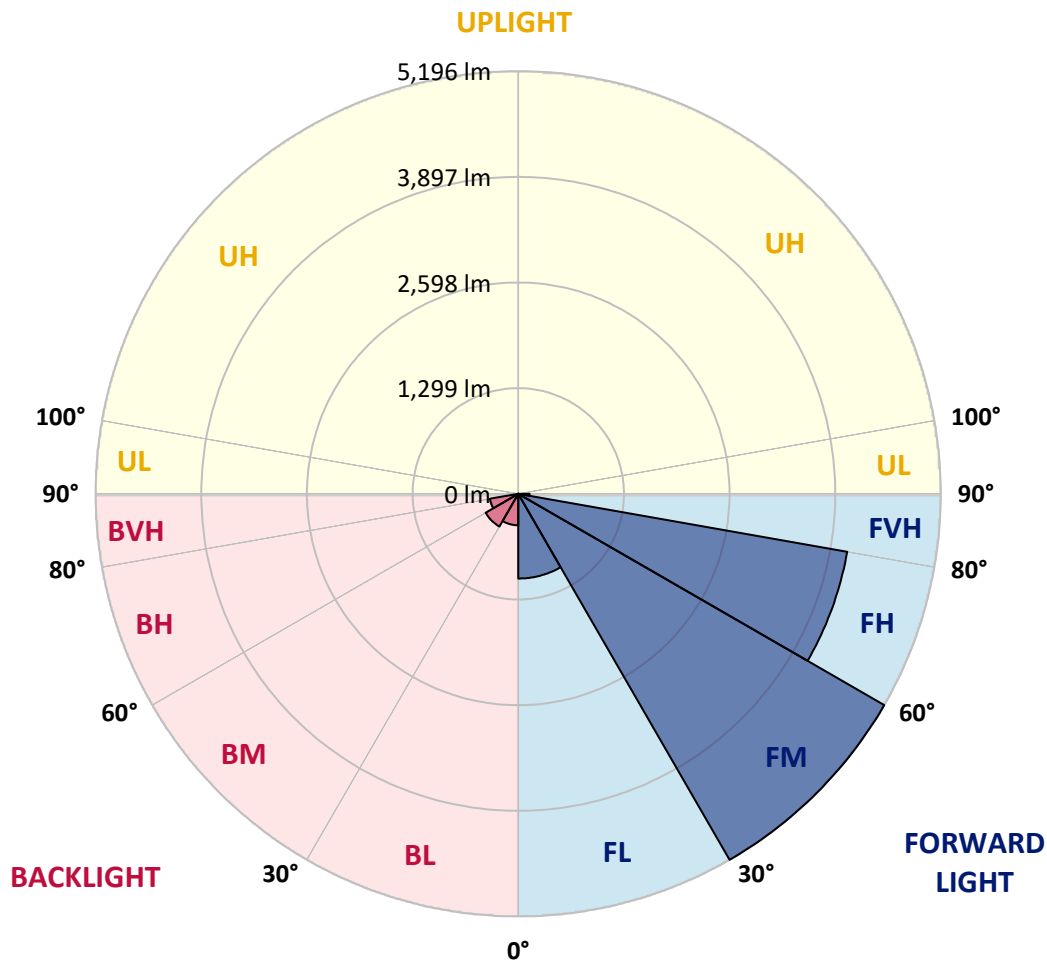
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.8	8.9			
FM (30°-60°)	5196.0	44.4			
FH (60°-80°)	4107.0	35.1			G2/5000
FVH (80°-90°)	137.8	1.2			G2/225
BL (0°-30°)	386.8	3.3	B1/500		
BM (30°-60°)	463.7	4.0	B1/1000		
BH (60°-80°)	354.1	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°	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5
2.5°	2921.7	2924.9	2928.9	2934.4	2938.4	2926.5	2909.9	2890.9	2887.0	2846.7	2797.8
5°	2765.4	2770.2	2804.9	2823.8	2866.5	2905.2	2929.6	2932.8	2931.2	2893.3	2815.2
7.5°	2542.7	2556.1	2590.1	2623.2	2703.0	2776.5	2863.4	2924.2	2928.1	2917.8	2820.7
10°	2361.9	2370.5	2387.9	2453.4	2519.8	2631.9	2753.5	2868.1	2877.6	2918.6	2815.9
12.5°	2220.5	2233.2	2254.5	2305.0	2384.7	2490.6	2628.8	2782.8	2802.5	2903.6	2802.5
15°	2121.8	2128.2	2149.4	2199.2	2276.6	2374.5	2514.3	2693.6	2710.9	2883.9	2800.1
17.5°	2075.3	2082.3	2097.4	2136.8	2200.8	2291.6	2428.2	2621.6	2643.8	2871.2	2808.9
20°	2087.9	2094.2	2095.0	2115.5	2158.9	2235.5	2365.1	2554.5	2583.0	2863.4	2823.1
22.5°	2159.7	2160.5	2151.0	2141.6	2156.6	2211.8	2326.4	2511.9	2541.2	2861.8	2839.6
25°	2267.1	2269.5	2253.7	2220.5	2190.6	2219.0	2317.6	2484.3	2510.3	2857.8	2849.9
27.5°	2415.6	2414.8	2410.1	2354.8	2269.5	2250.5	2324.8	2469.3	2491.4	2846.7	2853.8
30°	2623.2	2616.9	2606.7	2544.3	2414.0	2327.1	2354.8	2459.8	2480.4	2831.0	2843.6
32.5°	2827.8	2851.5	2849.9	2790.7	2628.0	2463.7	2417.1	2472.5	2487.4	2820.7	2828.5
35°	3066.3	3065.4	3126.2	3104.1	2913.9	2638.3	2523.8	2514.3	2526.1	2827.8	2821.5
37.5°	3287.4	3307.9	3402.7	3425.6	3251.8	2884.6	2674.5	2604.3	2608.3	2876.0	2838.8
40°	3563.0	3602.4	3743.8	3820.4	3667.2	3250.2	2897.2	2769.3	2770.2	2994.4	2904.4
42.5°	3918.3	3980.7	4112.6	4240.5	4158.3	3683.0	3231.3	3030.7	3029.1	3202.9	3054.4
45°	4350.2	4393.7	4543.8	4746.7	4694.5	4287.1	3717.7	3435.8	3415.3	3544.8	3320.5
47.5°	4723.0	4782.2	4934.6	5166.0	5402.8	5024.6	4298.9	3992.6	3979.1	4088.9	3776.9
50°	4885.6	4937.8	5098.1	5422.6	5996.7	5992.7	5164.4	4805.1	4782.2	4841.4	4483.0
52.5°	4707.2	4756.1	4918.0	5322.4	6276.2	7172.5	6418.3	5824.5	5796.9	5721.1	5326.3
55°	4096.0	4136.3	4375.6	4839.9	6168.8	7959.0	8146.2	7084.1	6976.7	6682.2	6281.0
57.5°	3261.3	3240.8	3389.2	3928.6	5538.7	8222.8	9919.8	8653.1	8461.2	7512.8	7088.8
60°	2260.0	2323.2	2383.2	2738.5	4164.7	7765.5	11022.9	10625.7	10373.0	8330.2	7862.7
62.5°	1661.5	1703.3	1742.8	1907.1	2618.5	6200.4	11217.9	12652.0	12427.7	9198.0	8601.0
65°	1314.0	1317.2	1333.0	1494.8	1725.4	4032.0	10280.6	13794.6	13737.0	10033.5	8900.3
66°	1197.2	1197.9	1222.4	1396.1	1548.5	3283.4	9529.6	13881.5	13913.1	10234.0	8812.7
67.5°	1046.3	1043.2	1078.7	1254.8	1410.4	2367.4	8185.6	13529.3	13716.5	10388.0	8497.5
70°	811.0	807.0	850.5	1052.6	1299.0	1579.3	5440.8	11616.7	11918.4	10072.9	7518.4
72.5°	540.1	543.3	617.5	830.7	1239.8	1390.6	3273.2	8837.1	9263.5	8318.3	5914.6
75°	315.0	320.6	405.1	617.5	1076.3	1325.8	1852.6	6301.5	6573.9	5744.0	3684.6
77.5°	165.0	167.4	226.6	407.5	825.2	1231.1	1234.3	4025.7	4153.6	2791.4	1458.5
80°	87.6	85.3	121.6	245.6	567.8	1081.0	1001.3	2131.3	2215.8	829.1	368.8
82.5°	33.1	36.3	64.8	161.1	335.6	776.2	862.3	942.1	912.8	182.4	154.7
85°	6.3	7.9	27.7	95.5	169.0	324.5	635.7	462.0	428.0	68.7	89.2
87.5°	0.8	1.6	7.9	22.9	24.5	109.8	188.0	127.9	110.6	25.2	37.1
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°	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5	2772.5
2.5°	2774.1	2752.8	2681.7	2611.4	2539.6	2474.8	2430.6	2358.8	2340.6	2314.5	2299.5
5°	2768.6	2718.8	2582.2	2432.9	2294.0	2144.0	2029.4	1918.9	1859.6	1829.7	1818.6
7.5°	2752.8	2673.8	2460.6	2226.9	2004.2	1779.9	1584.9	1436.4	1340.8	1275.3	1231.1
10°	2721.1	2612.2	2319.2	1997.9	1661.5	1365.4	1118.2	930.2	784.9	739.2	740.7
12.5°	2688.8	2543.5	2161.3	1743.6	1326.6	953.1	691.0	542.5	473.0	450.1	445.4
15°	2658.8	2477.9	2006.5	1497.2	987.8	617.5	445.4	393.3	374.3	370.4	369.5
17.5°	2643.0	2417.1	1841.5	1215.3	689.4	419.3	356.9	342.7	337.2	333.2	331.7
20°	2629.6	2364.2	1683.6	951.5	471.5	343.5	319.8	306.4	296.9	293.0	290.6
22.5°	2620.1	2309.7	1520.1	736.7	360.9	304.8	283.5	266.1	252.7	247.9	244.8
25°	2605.9	2249.8	1355.0	538.6	304.0	270.9	246.4	225.8	208.5	199.8	198.2
27.5°	2585.3	2181.8	1174.2	398.8	271.6	240.9	210.8	185.6	168.2	158.7	159.5
30°	2552.2	2110.7	993.4	316.6	245.6	210.1	177.7	153.2	136.6	129.5	128.7
32.5°	2512.7	2024.7	827.5	271.6	221.9	182.4	148.4	127.2	114.5	109.0	108.2
35°	2475.6	1937.8	658.6	244.0	197.4	157.2	124.8	106.6	97.1	92.4	93.2
37.5°	2455.0	1860.5	513.3	221.9	177.7	135.1	107.4	91.6	82.9	79.0	78.2
40°	2468.5	1797.3	408.2	202.2	155.6	116.1	92.4	79.0	70.3	64.8	64.8
42.5°	2531.7	1769.6	329.3	183.2	135.1	100.2	80.6	68.0	58.4	52.9	53.7
45°	2724.3	1798.8	275.6	165.8	116.1	86.9	69.5	56.1	47.3	43.4	42.6
47.5°	3044.2	1908.6	238.5	147.7	99.5	74.3	58.4	46.6	37.9	34.7	34.0
50°	3603.3	2135.2	210.8	129.5	84.5	63.2	48.2	37.1	30.0	26.8	26.8
52.5°	4372.4	2629.6	191.1	109.0	71.1	53.7	39.4	30.0	23.7	21.4	20.5
55°	5176.3	3150.7	180.8	91.6	59.2	44.2	31.6	23.7	18.2	15.8	15.0
57.5°	5949.3	3559.8	169.0	74.3	47.3	34.0	24.5	18.2	12.6	11.0	10.3
60°	6690.8	3890.6	143.7	59.2	37.1	24.5	18.2	12.6	8.7	7.1	7.1
62.5°	7354.1	4083.3	112.9	47.3	28.4	17.4	11.9	9.5	6.3	4.7	4.7
65°	7431.5	3833.0	85.3	36.3	20.5	11.0	7.1	7.1	4.7	3.2	3.2
66°	7275.9	3620.6	75.0	33.1	18.2	9.5	6.3	5.6	4.0	2.4	2.4
67.5°	6928.5	3258.1	64.8	28.4	15.0	7.1	4.7	4.7	3.2	1.6	1.6
70°	5986.4	2661.2	51.3	21.4	11.0	5.6	3.2	3.2	2.4	1.6	1.6
72.5°	4562.7	1986.8	41.9	15.8	7.9	4.0	2.4	2.4	2.4	1.6	1.6
75°	2752.0	1070.0	32.4	11.9	7.1	3.2	1.6	2.4	3.2	2.4	1.6
77.5°	1013.9	364.1	25.2	9.5	5.6	3.2	1.6	1.6	3.2	2.4	2.4
80°	248.8	94.8	18.2	7.9	5.6	3.2	1.6	1.6	3.2	3.2	3.2
82.5°	115.3	40.3	12.6	7.1	5.6	3.2	1.6	1.6	2.4	3.2	3.2
85°	66.4	18.9	10.3	7.9	5.6	3.2	1.6	1.6	2.4	3.2	3.2
87.5°	26.8	9.5	9.5	7.9	6.3	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)