

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: P648316

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648316
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-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 10885.3 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

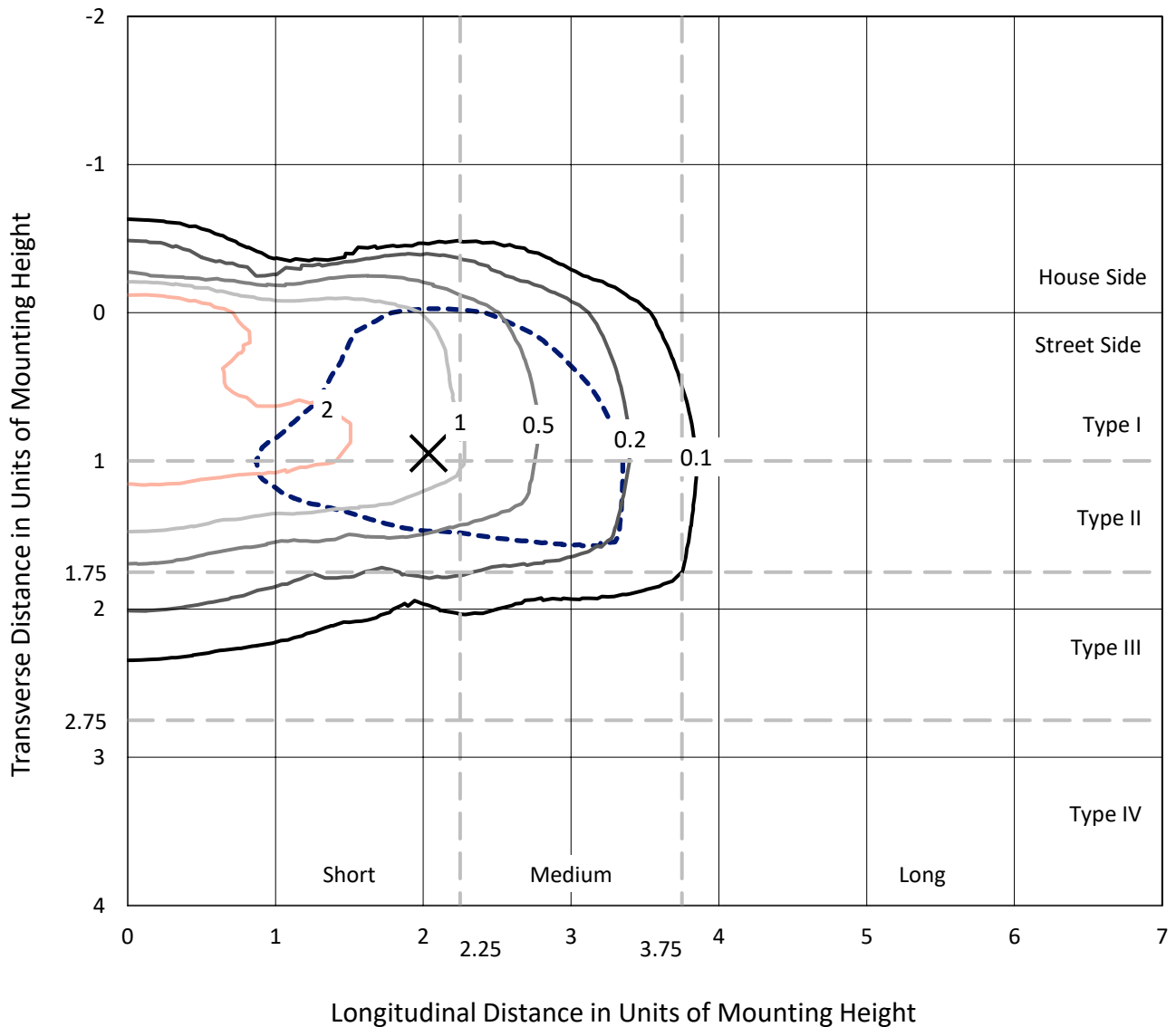
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

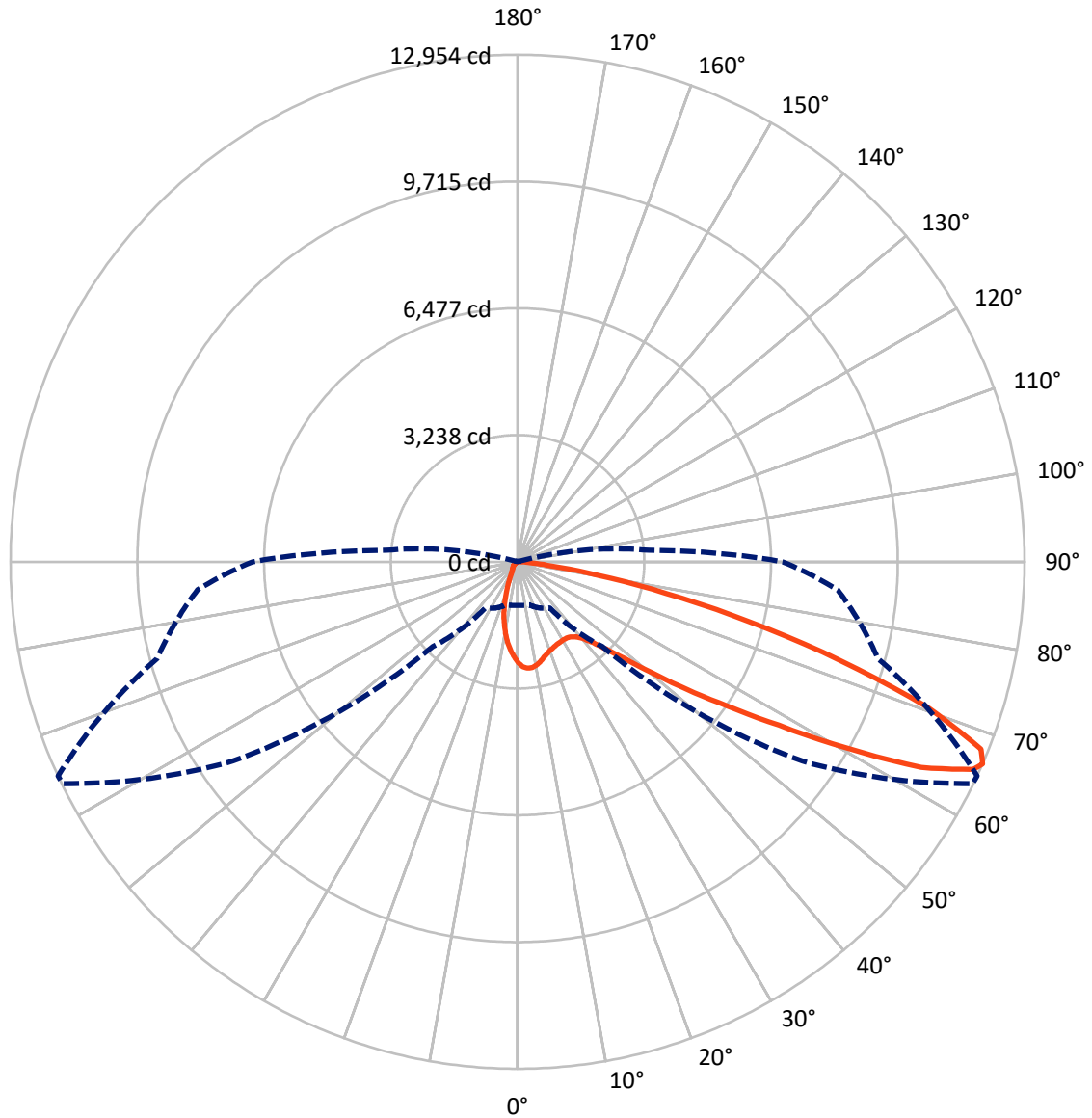
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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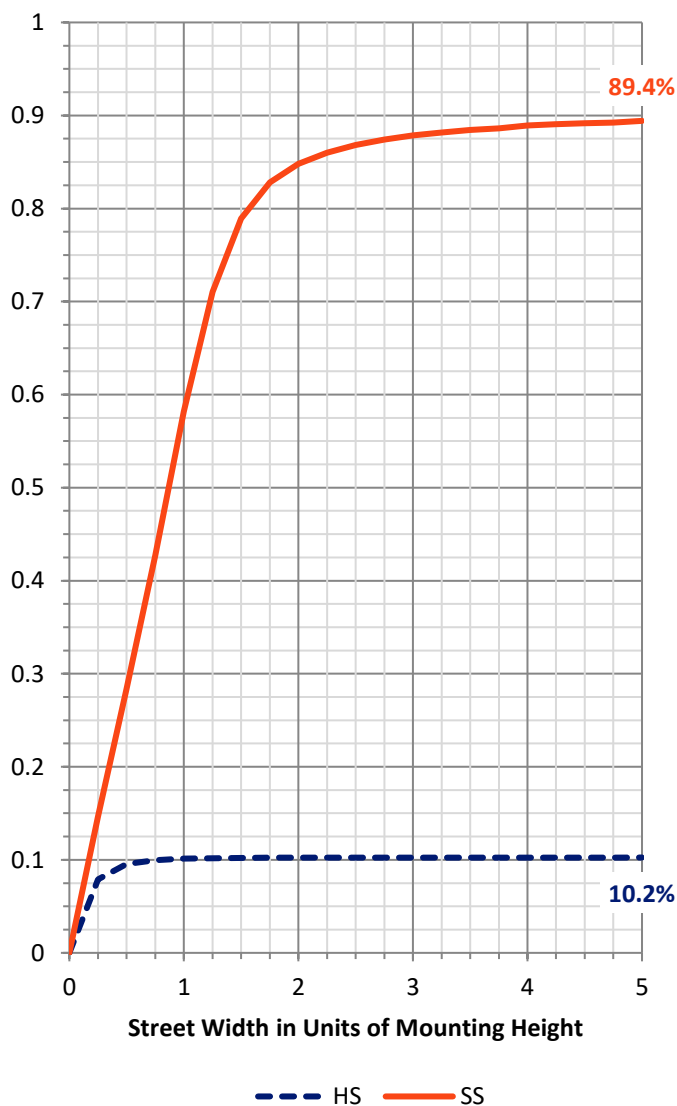
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1125.7	0.0	1125.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9759.6	0.0	9759.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	10885.3	0.0	10885.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.9
10°-20°	460.0	4.2
20°-30°	658.9	6.1
30°-40°	962.4	8.8
40°-50°	1613.8	14.8
50°-60°	2693.2	24.7
60°-70°	2858.7	26.3
70°-80°	1294.7	11.9
80°-90°	132.5	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°	10885.3	100.0
0°-180°	10885.3	100.0

Coefficient of Utilization



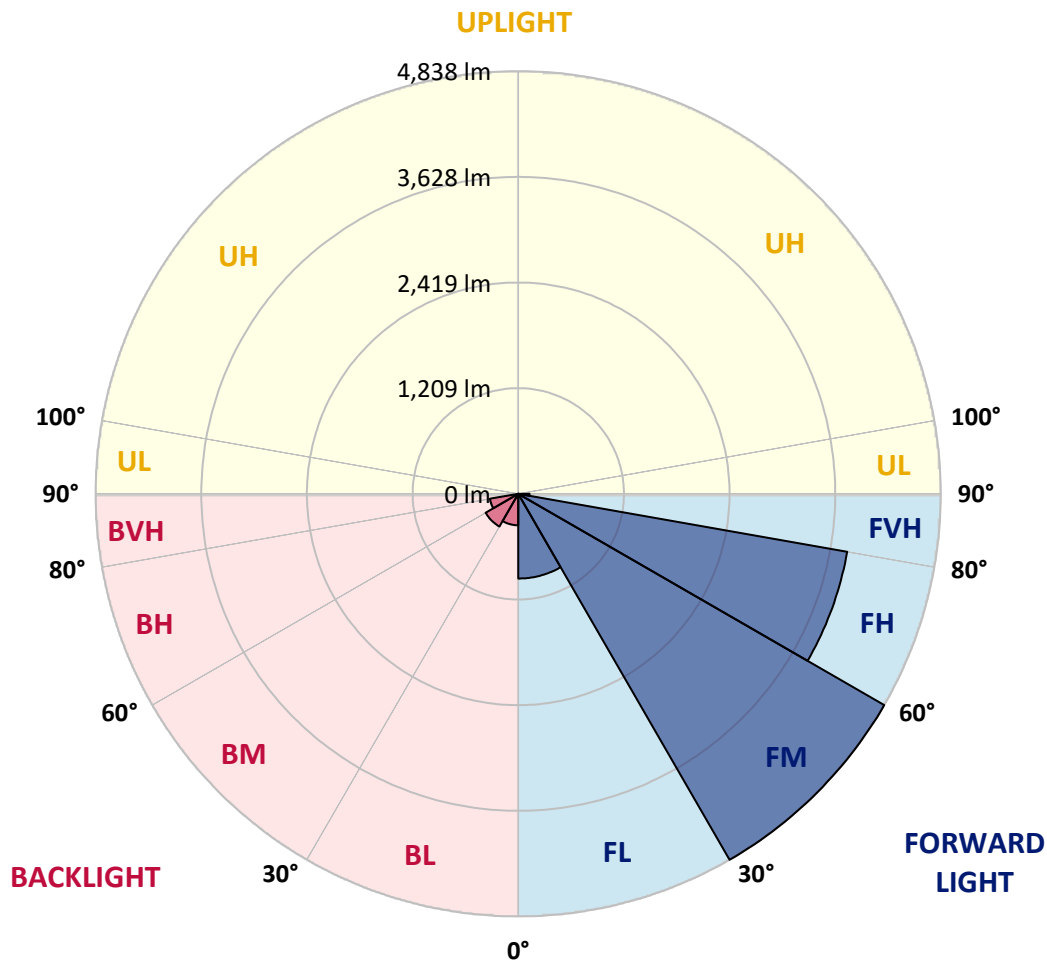
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.9	8.9			
FM (30°-60°)	4837.7	44.4			
FH (60°-80°)	3823.8	35.1			G2/5000
FVH (80°-90°)	128.3	1.2			G2/225
BL (0°-30°)	360.1	3.3	B1/500		
BM (30°-60°)	431.7	4.0	B1/1000		
BH (60°-80°)	329.7	3.0	B1/500		G1/500
BVH (80°-90°)	4.2	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°	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3
2.5°	2720.2	2723.2	2726.9	2732.0	2735.7	2724.7	2709.3	2691.6	2687.9	2650.4	2604.8
5°	2574.7	2579.1	2611.5	2629.1	2668.8	2704.8	2727.6	2730.6	2729.1	2693.8	2621.0
7.5°	2367.3	2379.9	2411.5	2442.3	2516.6	2585.0	2665.9	2722.5	2726.2	2716.5	2626.2
10°	2199.0	2207.0	2223.3	2284.2	2346.0	2450.4	2563.6	2670.3	2679.1	2717.3	2621.7
12.5°	2067.4	2079.2	2099.0	2146.0	2220.3	2318.9	2447.5	2590.9	2609.3	2703.3	2609.3
15°	1975.5	1981.4	2001.2	2047.5	2119.6	2210.7	2340.9	2507.8	2523.9	2685.0	2607.0
17.5°	1932.1	1938.7	1952.7	1989.4	2049.0	2133.6	2260.8	2440.8	2461.4	2673.2	2615.1
20°	1943.9	1949.7	1950.5	1969.6	2010.0	2081.4	2202.0	2378.4	2404.8	2665.9	2628.4
22.5°	2010.7	2011.5	2002.7	1993.9	2007.8	2059.3	2165.9	2338.7	2365.9	2664.4	2643.8
25°	2110.7	2113.0	2098.3	2067.4	2039.5	2065.9	2157.8	2313.0	2337.2	2660.7	2653.4
27.5°	2249.0	2248.2	2243.8	2192.4	2113.0	2095.3	2164.4	2299.0	2319.6	2650.4	2657.0
30°	2442.3	2436.5	2426.9	2368.8	2247.5	2166.6	2192.4	2290.2	2309.3	2635.7	2647.5
32.5°	2632.8	2654.8	2653.4	2598.2	2446.7	2293.8	2250.4	2301.9	2315.9	2626.2	2633.5
35°	2854.8	2854.0	2910.6	2890.1	2712.9	2456.3	2349.7	2340.9	2351.9	2632.8	2626.9
37.5°	3060.7	3079.8	3168.0	3189.3	3027.5	2685.7	2490.1	2424.7	2428.4	2677.6	2643.0
40°	3317.3	3354.0	3485.6	3556.9	3414.3	3026.1	2697.4	2578.3	2579.1	2787.9	2704.1
42.5°	3648.1	3706.2	3828.9	3948.0	3871.5	3429.0	3008.4	2821.7	2820.2	2982.0	2843.8
45°	4050.2	4090.7	4230.4	4419.3	4370.8	3991.4	3461.3	3198.9	3179.8	3300.3	3091.5
47.5°	4397.2	4452.4	4594.3	4809.7	5030.2	4678.1	4002.5	3717.2	3704.7	3806.9	3516.5
50°	4548.7	4597.2	4746.5	5048.6	5583.1	5579.4	4808.2	4473.7	4452.4	4507.5	4173.8
52.5°	4382.5	4428.1	4578.8	4955.3	5843.4	6677.8	5975.7	5422.8	5397.1	5326.5	4959.0
55°	3813.5	3851.0	4073.8	4506.1	5743.4	7410.1	7584.4	6595.5	6495.5	6221.3	5847.8
57.5°	3036.4	3017.3	3155.5	3657.6	5156.7	7655.7	9235.6	8056.4	7877.7	6994.7	6599.9
60°	2104.2	2163.0	2218.9	2549.7	3877.5	7230.0	10262.7	9892.9	9657.6	7755.7	7320.4
62.5°	1546.9	1585.8	1622.6	1775.5	2437.9	5772.8	10444.3	11779.5	11570.6	8563.7	8007.8
65°	1223.4	1226.3	1241.1	1391.7	1606.4	3753.9	9571.6	12843.2	12789.6	9341.5	8286.5
66°	1114.6	1115.3	1138.1	1299.9	1441.7	3057.0	8872.4	12924.1	12953.6	9528.2	8204.9
67.5°	974.1	971.2	1004.3	1168.2	1313.1	2204.1	7621.1	12596.2	12770.5	9671.6	7911.5
70°	755.0	751.4	791.8	980.0	1209.4	1470.4	5065.5	10815.6	11096.4	9378.2	6999.9
72.5°	502.8	505.8	575.0	773.4	1154.3	1294.7	3047.4	8227.7	8624.7	7744.7	5506.7
75°	293.3	298.5	377.2	575.0	1002.1	1234.4	1724.8	5866.9	6120.6	5347.9	3430.5
77.5°	153.6	155.9	211.0	379.4	768.3	1146.2	1149.1	3748.1	3867.2	2598.9	1358.0
80°	81.6	79.4	113.2	228.6	528.6	1006.5	932.2	1984.3	2063.0	772.0	343.3
82.5°	30.9	33.8	60.3	149.9	312.5	722.7	802.8	877.1	849.9	169.8	144.1
85°	5.9	7.4	25.8	88.9	157.3	302.2	591.9	430.1	398.5	64.0	83.1
87.5°	0.7	1.5	7.4	21.3	22.8	102.2	175.0	119.1	103.0	23.5	34.5
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°	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3
2.5°	2582.8	2562.9	2496.8	2431.3	2364.4	2304.1	2262.9	2196.1	2179.2	2154.9	2140.9
5°	2577.6	2531.3	2404.1	2265.1	2135.8	1996.1	1889.5	1786.6	1731.4	1703.5	1693.2
7.5°	2562.9	2489.4	2290.9	2073.3	1866.0	1657.1	1475.6	1337.4	1248.3	1187.3	1146.2
10°	2533.5	2432.1	2159.3	1860.1	1546.9	1271.2	1041.1	866.1	730.8	688.2	689.6
12.5°	2503.3	2368.1	2012.2	1623.3	1235.1	887.4	643.3	505.1	440.4	419.1	414.7
15°	2475.5	2307.0	1868.2	1394.0	919.7	575.0	414.7	366.1	348.5	344.8	344.1
17.5°	2460.7	2250.4	1714.5	1131.5	641.8	390.4	332.3	319.1	313.9	310.2	308.8
20°	2448.2	2201.2	1567.5	885.9	438.9	319.8	297.8	285.2	276.4	272.8	270.5
22.5°	2439.4	2150.4	1415.3	685.9	336.0	283.8	263.9	247.7	235.3	230.8	227.9
25°	2426.2	2094.6	1261.6	501.4	283.1	252.2	229.4	210.2	194.1	186.0	184.6
27.5°	2407.0	2031.3	1093.2	371.3	252.9	224.3	196.3	172.8	156.6	147.8	148.5
30°	2376.2	1965.2	924.9	294.8	228.6	195.6	165.4	142.7	127.2	120.6	119.8
32.5°	2339.4	1885.1	770.5	252.9	206.6	169.8	138.2	118.4	106.6	101.5	100.7
35°	2304.8	1804.2	613.2	227.1	183.8	146.3	116.2	99.3	90.4	86.1	86.8
37.5°	2285.7	1732.2	477.9	206.6	165.4	125.7	100.0	85.3	77.2	73.5	72.8
40°	2298.3	1673.3	380.1	188.2	144.9	108.1	86.1	73.5	65.5	60.3	60.3
42.5°	2357.1	1647.6	306.5	170.5	125.7	93.3	75.0	63.3	54.4	49.3	50.0
45°	2536.5	1674.8	256.6	154.4	108.1	80.9	64.7	52.2	44.1	40.4	39.7
47.5°	2834.2	1777.0	222.1	137.5	92.6	69.1	54.4	43.4	35.3	32.3	31.6
50°	3354.8	1988.0	196.3	120.6	78.7	58.8	44.9	34.5	28.0	25.0	25.0
52.5°	4070.8	2448.2	177.9	101.5	66.2	50.0	36.7	28.0	22.1	19.9	19.1
55°	4819.3	2933.4	168.3	85.3	55.1	41.2	29.4	22.1	16.9	14.7	13.9
57.5°	5539.0	3314.3	157.3	69.1	44.1	31.6	22.8	16.9	11.7	10.3	9.6
60°	6229.4	3622.3	133.8	55.1	34.5	22.8	16.9	11.7	8.1	6.7	6.7
62.5°	6846.9	3801.7	105.2	44.1	26.5	16.2	11.0	8.8	5.9	4.4	4.4
65°	6919.0	3568.7	79.4	33.8	19.1	10.3	6.7	6.7	4.4	3.0	3.0
66°	6774.1	3370.9	69.8	30.9	16.9	8.8	5.9	5.2	3.7	2.2	2.2
67.5°	6450.7	3033.4	60.3	26.5	13.9	6.7	4.4	4.4	3.0	1.5	1.5
70°	5573.6	2477.6	47.8	19.9	10.3	5.2	3.0	3.0	2.2	1.5	1.5
72.5°	4248.0	1849.8	39.0	14.7	7.4	3.7	2.2	2.2	2.2	1.5	1.5
75°	2562.2	996.2	30.1	11.0	6.7	3.0	1.5	2.2	3.0	2.2	1.5
77.5°	944.0	339.0	23.5	8.8	5.2	3.0	1.5	1.5	3.0	2.2	2.2
80°	231.6	88.2	16.9	7.4	5.2	3.0	1.5	1.5	3.0	3.0	3.0
82.5°	107.3	37.5	11.7	6.7	5.2	3.0	1.5	1.5	2.2	3.0	3.0
85°	61.8	17.6	9.6	7.4	5.2	3.0	1.5	1.5	2.2	3.0	3.0
87.5°	25.0	8.8	8.8	7.4	5.9	3.7	1.5	1.5	1.5	2.2	2.2
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)