

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: P529309

Luminaire Tested: **GALN-SA4C-722-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-722-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12209 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

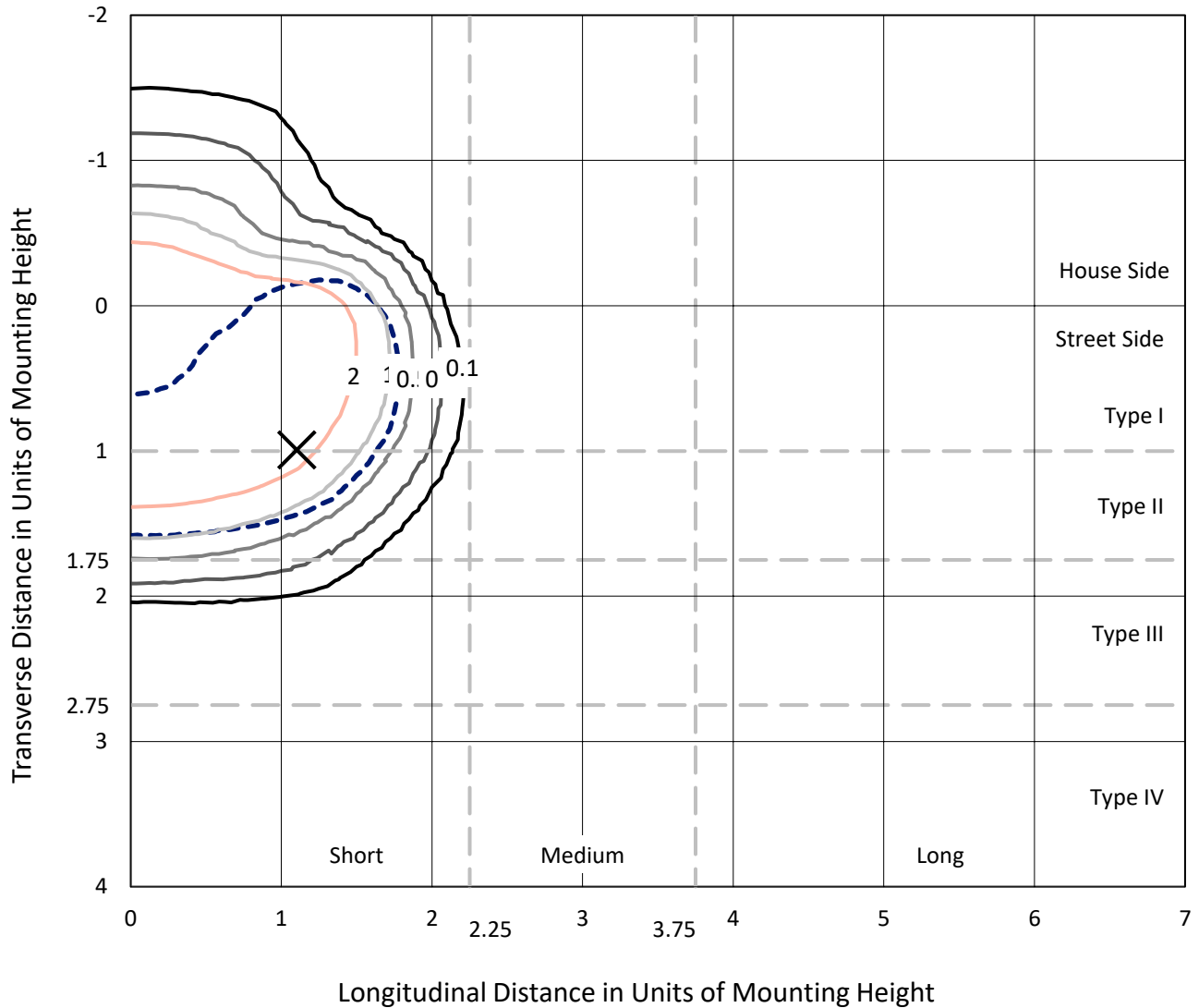
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

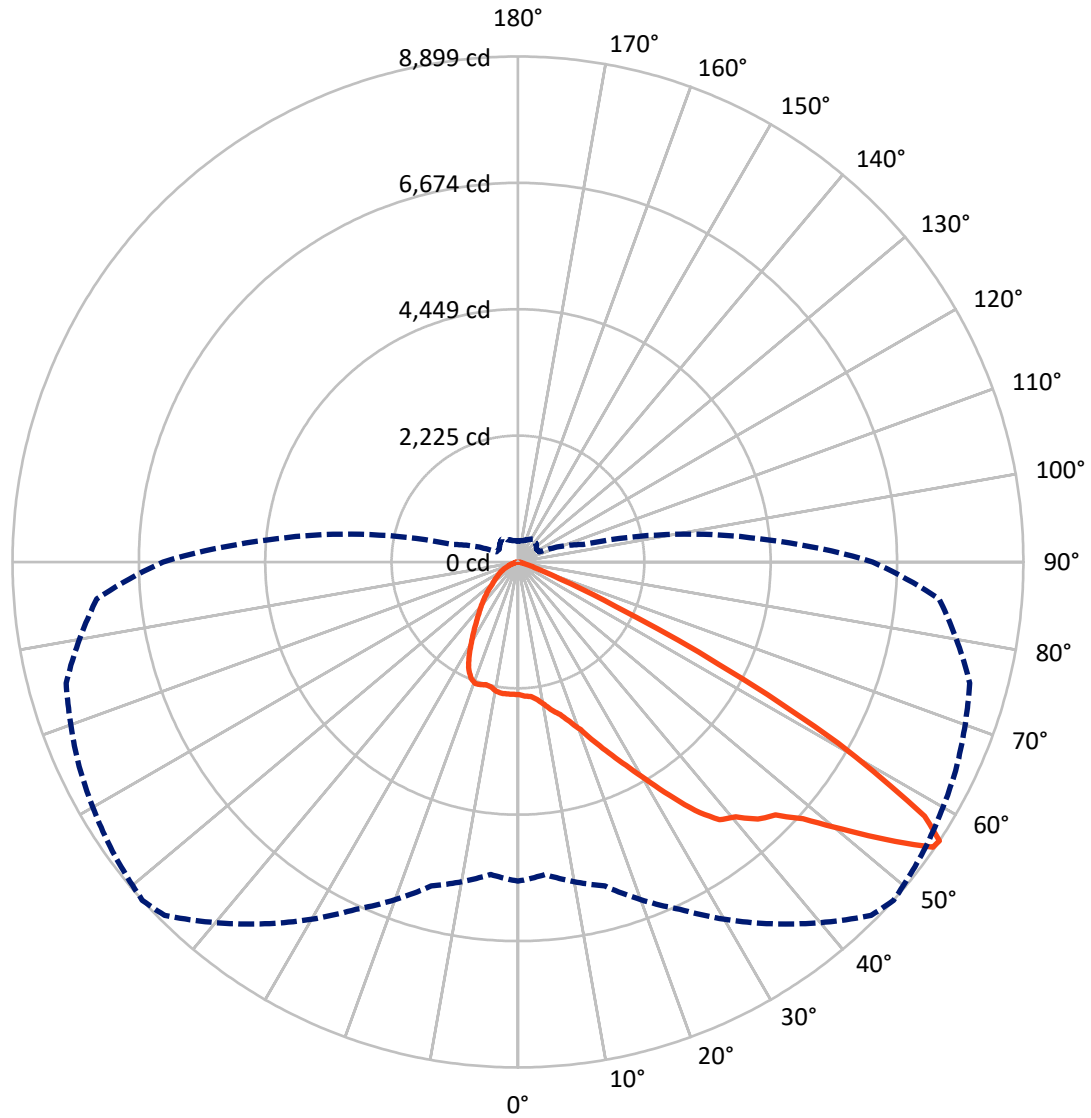
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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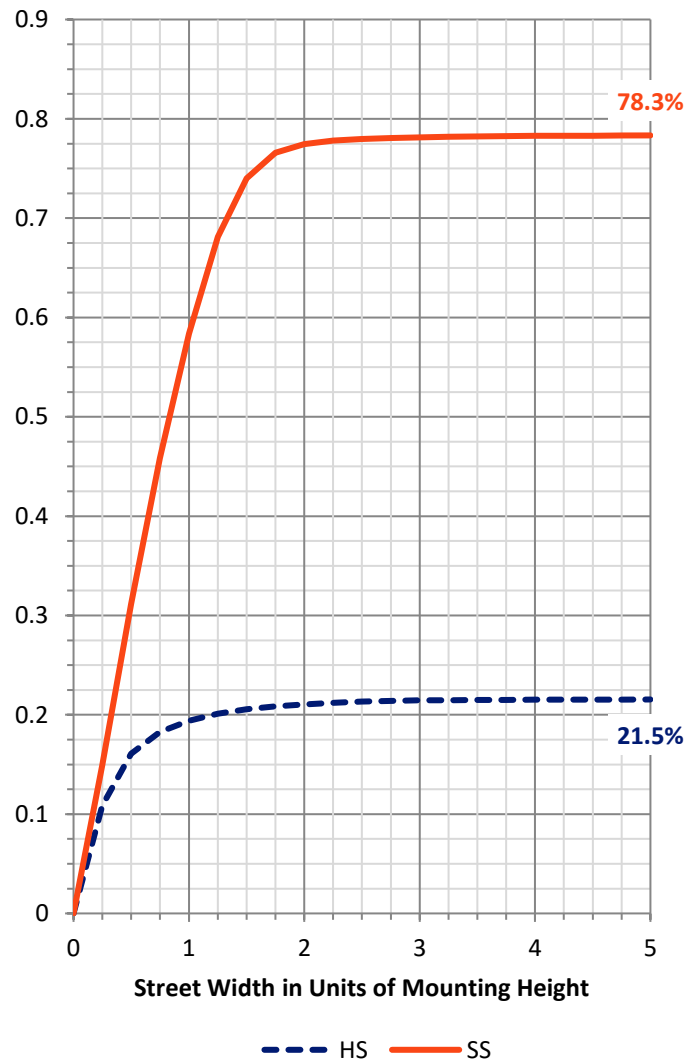
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2655.2	0.0	2655.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9553.8	0.0	9553.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	12209.0	0.0	12209.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	1.9
10°-20°	725.9	5.9
20°-30°	1316.7	10.8
30°-40°	2068.3	16.9
40°-50°	3017.3	24.7
50°-60°	3635.2	29.8
60°-70°	1064.4	8.7
70°-80°	135.0	1.1
80°-90°	18.9	0.2
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°	12209.0	100.0
0°-180°	12209.0	100.0



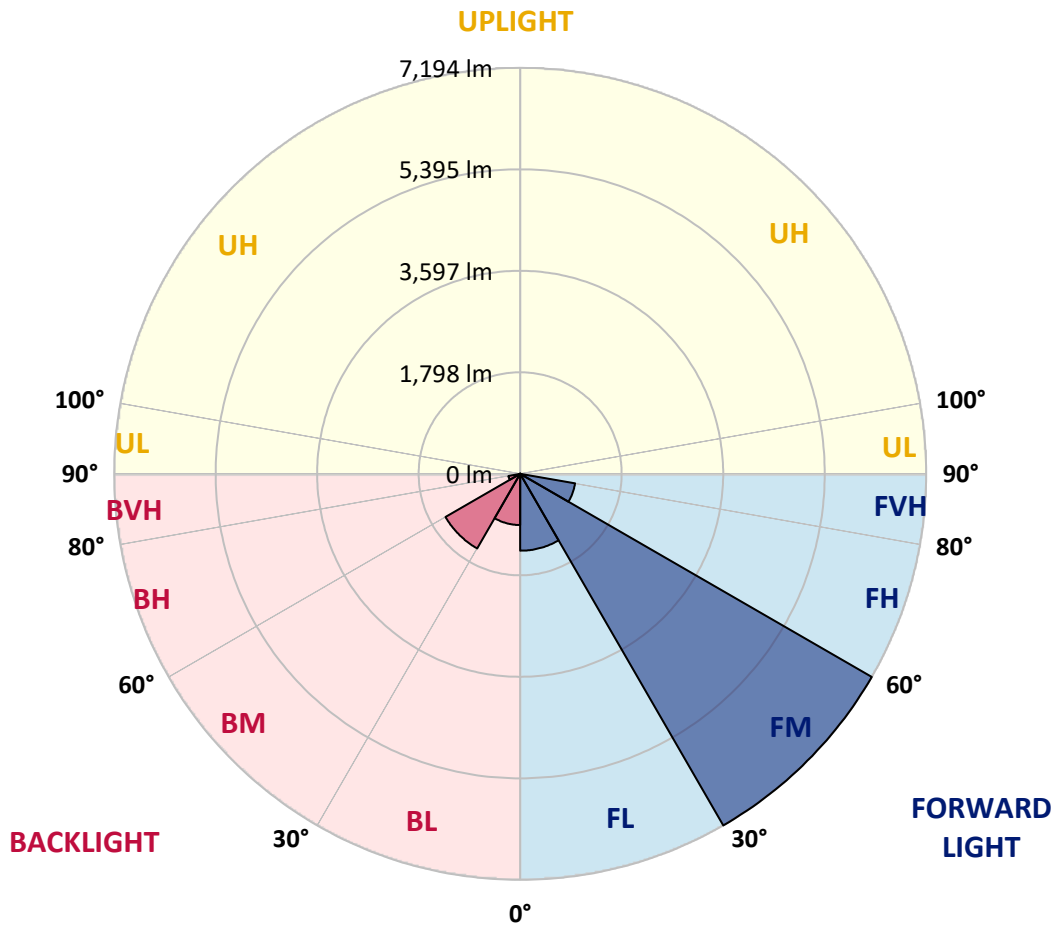
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.3	11.2			
FM (30°-60°)	7193.6	58.9			
FH (60°-80°)	988.4	8.1			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	907.5	7.4	B2/1000		
BM (30°-60°)	1527.3	12.5	B2/2500		
BH (60°-80°)	211.0	1.7	B1/500		G1/500
BVH (80°-90°)	9.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9
2.5°	2374.2	2363.0	2363.0	2345.3	2365.3	2356.4	2363.0	2340.8	2363.0	2329.7	2356.4
5°	2385.3	2387.5	2378.6	2389.7	2389.7	2403.1	2380.8	2400.8	2412.0	2387.5	2376.4
7.5°	2443.1	2447.5	2445.3	2436.4	2454.2	2452.0	2449.7	2434.2	2438.6	2429.7	2416.4
10°	2556.4	2554.2	2565.3	2543.1	2529.8	2545.3	2549.8	2525.3	2507.5	2500.9	2458.6
12.5°	2720.9	2694.3	2678.7	2656.5	2663.2	2640.9	2680.9	2638.7	2629.8	2589.8	2547.6
15°	2854.3	2849.9	2852.1	2816.5	2776.5	2785.4	2785.4	2763.2	2749.8	2700.9	2640.9
17.5°	3127.8	3034.4	3054.4	3009.9	2976.6	2974.4	2954.4	2958.8	2923.2	2821.0	2729.8
20°	3341.2	3301.2	3270.0	3194.4	3143.3	3158.9	3150.0	3127.8	3116.6	2983.3	2854.3
22.5°	3532.3	3545.7	3494.6	3474.5	3403.4	3410.1	3427.9	3407.9	3323.4	3185.6	2994.4
25°	3801.3	3785.8	3716.9	3692.4	3625.7	3650.2	3719.1	3703.5	3650.2	3401.2	3103.3
27.5°	4119.2	4065.9	4079.2	3968.1	3903.6	3972.5	4054.7	4132.6	3981.4	3654.6	3232.2
30°	4343.7	4288.2	4283.7	4279.3	4263.7	4343.7	4439.3	4510.5	4388.2	3908.0	3445.6
32.5°	4454.9	4468.2	4506.0	4492.7	4628.3	4792.8	4892.8	4995.1	4841.7	4321.5	3728.0
35°	4750.5	4666.1	4750.5	4759.4	4899.5	5248.5	5375.2	5619.7	5581.9	4906.2	4072.5
37.5°	4923.9	4917.3	4928.4	5012.9	5148.5	5579.7	5759.8	5948.7	5877.6	5257.4	4501.6
40°	5210.7	5228.5	5226.3	5290.7	5439.7	5828.7	5902.1	6055.4	6062.1	5744.2	5132.9
42.5°	5670.9	5599.7	5553.0	5619.7	5828.7	6044.3	6191.0	6159.9	6380.0	6335.5	5944.3
45°	6084.3	6126.6	6057.7	6168.8	6244.4	6360.0	6355.5	6422.2	6702.3	6913.5	6555.6
47.5°	6471.1	6497.8	6531.2	6606.7	6771.3	6789.0	6751.2	6722.3	7109.1	7327.0	7029.1
50°	6702.3	6726.8	6882.4	7018.0	7324.8	7364.8	7387.0	7313.7	7576.0	7600.4	7475.9
52.5°	6640.1	6666.8	6884.6	7331.4	7820.5	8187.3	8120.6	7996.1	7980.6	8076.1	7889.4
55°	6088.8	6064.3	6364.4	7060.2	7976.1	8856.4	8865.3	8734.2	8483.0	8418.5	7827.2
56°	5619.7	5524.1	5906.5	6746.8	7776.0	8798.6	8898.7	8758.6	8523.0	8234.0	7442.6
57.5°	4603.8	4695.0	5075.1	5770.9	7084.7	8382.9	8440.7	8407.4	8229.5	7744.9	6549.0
60°	2538.7	2698.7	3034.4	3885.8	5044.0	6433.4	6480.0	6751.2	6784.6	5931.0	4506.0
62.5°	1078.2	1060.4	1409.4	2036.3	2872.1	3883.6	3970.3	4248.1	4299.3	3419.0	2260.8
65°	437.9	462.4	638.0	1024.8	1518.3	1769.5	1891.8	1982.9	2151.9	1411.6	833.6
67.5°	289.0	286.8	375.7	584.6	818.1	789.2	789.2	833.6	771.4	575.8	360.1
70°	206.7	213.4	269.0	404.6	509.1	377.9	362.3	346.8	393.5	380.1	291.2
72.5°	135.6	144.5	180.1	242.3	264.5	206.7	206.7	249.0	324.6	306.8	237.9
75°	88.9	91.1	111.1	140.0	131.2	106.7	117.8	166.7	235.6	226.7	168.9
77.5°	60.0	62.2	75.6	91.1	73.4	60.0	64.5	84.5	115.6	115.6	88.9
80°	22.2	24.5	31.1	28.9	33.3	42.2	46.7	57.8	68.9	68.9	60.0
82.5°	0.0	2.2	6.7	15.6	24.5	33.3	37.8	44.5	51.1	57.8	55.6
85°	0.0	2.2	6.7	11.1	17.8	20.0	22.2	15.6	13.3	13.3	11.1
87.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9
2.5°	2331.9	2329.7	2329.7	2323.0	2336.4	2329.7	2334.1	2331.9	2303.0	2325.3	2309.7
5°	2356.4	2371.9	2347.5	2343.0	2325.3	2331.9	2331.9	2309.7	2329.7	2327.5	2323.0
7.5°	2418.6	2391.9	2365.3	2338.6	2334.1	2327.5	2303.0	2294.1	2309.7	2291.9	2318.6
10°	2445.3	2449.7	2409.7	2374.2	2340.8	2294.1	2260.8	2240.8	2216.3	2243.0	2258.6
12.5°	2567.6	2523.1	2454.2	2398.6	2285.2	2238.6	2205.2	2196.3	2238.6	2247.5	2231.9
15°	2609.8	2603.1	2514.2	2389.7	2271.9	2216.3	2223.0	2205.2	2209.7	2187.4	2191.9
17.5°	2696.5	2620.9	2516.4	2360.8	2269.7	2256.3	2216.3	2145.2	2105.2	2087.4	2103.0
20°	2792.1	2718.7	2567.6	2371.9	2289.7	2254.1	2123.0	2036.3	1954.0	1909.6	1911.8
22.5°	2876.6	2785.4	2545.3	2376.4	2307.5	2160.8	2002.9	1831.7	1729.5	1660.6	1662.8
25°	2978.8	2849.9	2554.2	2385.3	2260.8	2011.8	1785.1	1618.3	1496.1	1449.4	1465.0
27.5°	3036.6	2889.9	2603.1	2405.3	2138.5	1800.6	1556.1	1400.5	1329.4	1307.1	1304.9
30°	3210.0	2978.8	2663.2	2365.3	1934.0	1573.9	1347.1	1251.5	1182.6	1162.6	1167.1
32.5°	3467.9	3141.1	2741.0	2260.8	1725.0	1371.6	1211.5	1140.4	1075.9	1038.1	1033.7
35°	3683.5	3419.0	2823.2	2098.5	1482.7	1216.0	1115.9	1027.0	929.2	887.0	875.9
37.5°	4094.8	3732.4	2805.4	1854.0	1251.5	1100.4	1013.7	904.8	820.3	762.5	755.8
40°	4641.6	4099.2	2718.7	1556.1	1080.4	998.1	904.8	800.3	695.8	646.9	642.4
42.5°	5306.3	4548.3	2560.9	1253.8	909.2	895.9	811.4	691.4	598.0	562.4	564.6
45°	5846.5	4932.8	2400.8	1007.0	782.5	795.8	722.5	609.1	544.6	515.7	515.7
47.5°	6326.7	5192.9	2227.4	831.4	664.7	695.8	631.3	564.6	509.1	486.8	482.4
50°	6789.0	5457.5	2054.0	673.6	566.9	598.0	591.3	538.0	493.5	466.8	469.1
52.5°	7078.0	5499.7	1834.0	551.3	495.7	531.3	553.5	504.6	455.7	440.2	435.7
55°	6724.6	4955.1	1422.7	453.5	420.1	466.8	509.1	453.5	415.7	389.0	386.8
56°	6248.8	4430.4	1189.3	417.9	397.9	449.0	493.5	433.5	391.2	375.7	364.6
57.5°	5290.7	3625.7	878.1	371.2	369.0	417.9	469.1	413.5	364.6	351.2	351.2
60°	3298.9	2040.7	531.3	311.2	320.1	371.2	422.4	369.0	324.6	324.6	331.2
62.5°	1502.7	849.2	322.3	264.5	275.7	320.1	375.7	333.4	309.0	333.4	337.9
65°	511.3	366.8	233.4	211.2	217.9	264.5	322.3	337.9	335.7	351.2	360.1
67.5°	286.8	235.6	195.6	175.6	171.2	195.6	264.5	337.9	324.6	317.9	322.3
70°	242.3	200.1	173.4	155.6	148.9	157.8	204.5	255.6	229.0	222.3	217.9
72.5°	195.6	166.7	151.2	140.0	120.0	102.3	93.4	97.8	108.9	115.6	126.7
75°	137.8	126.7	126.7	113.4	86.7	64.5	51.1	42.2	28.9	20.0	22.2
77.5°	77.8	77.8	80.0	68.9	55.6	42.2	31.1	22.2	11.1	4.4	2.2
80°	53.4	57.8	62.2	55.6	46.7	37.8	26.7	15.6	6.7	0.0	0.0
82.5°	53.4	60.0	64.5	55.6	46.7	35.6	26.7	15.6	6.7	2.2	0.0
85°	11.1	13.3	15.6	17.8	26.7	26.7	20.0	13.3	6.7	2.2	0.0
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	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)