

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: P529179

Luminaire Tested: **GALN-SA4B-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529179
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-SA4B-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA 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: 13442 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

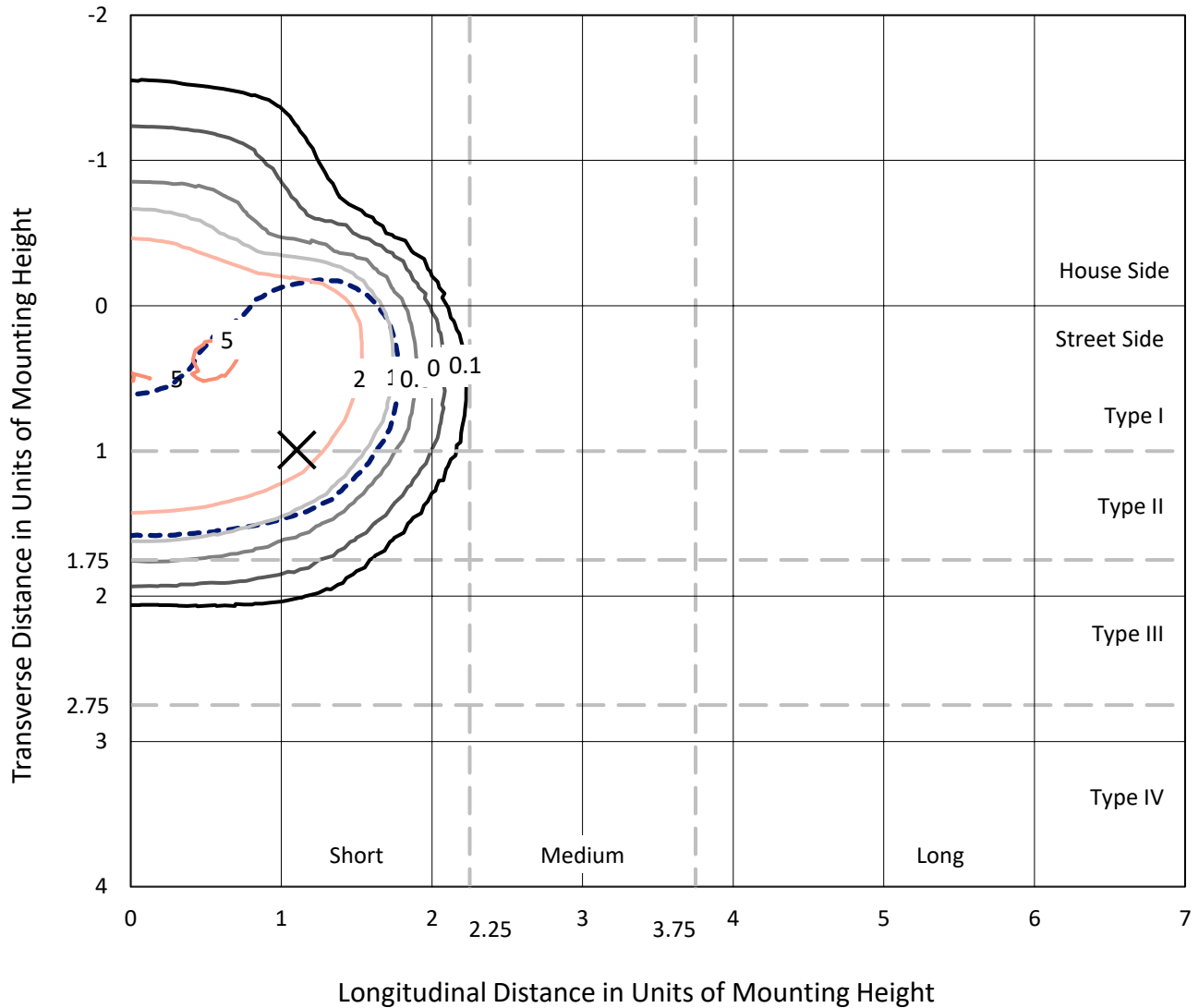
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

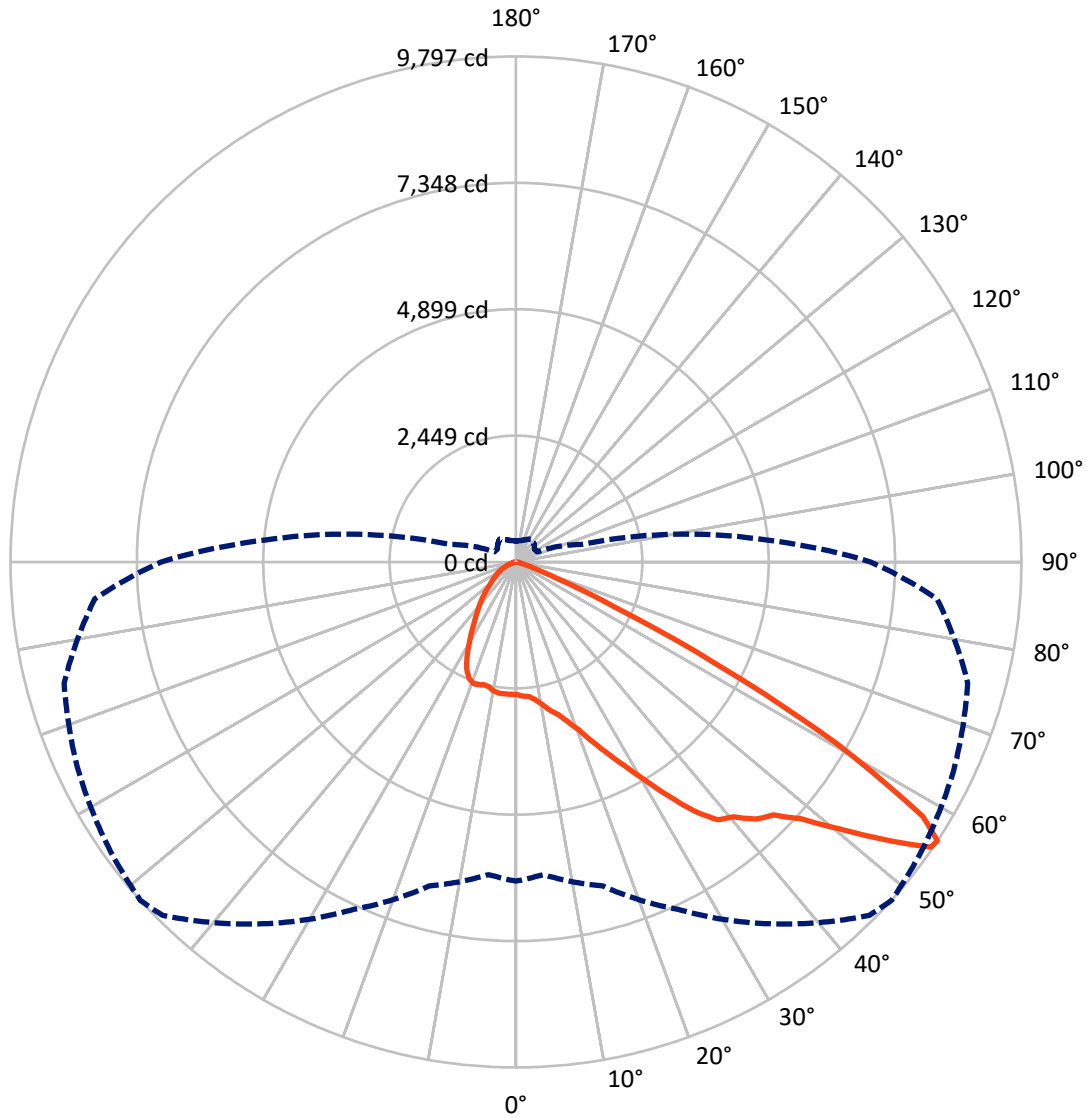
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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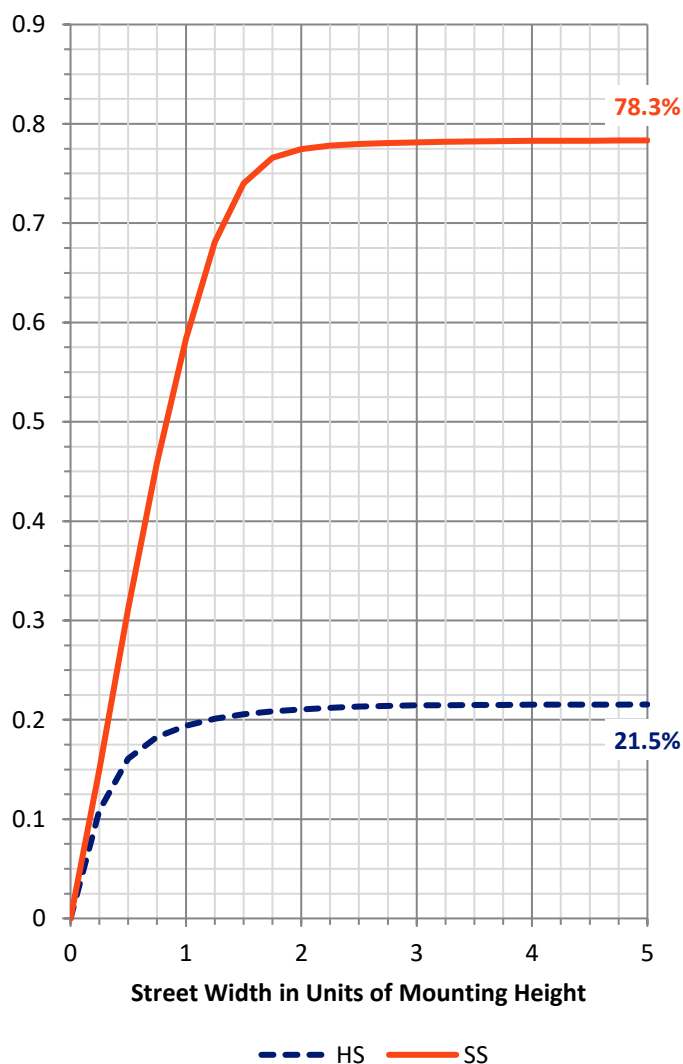
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2923.4	0.0	2923.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10518.6	0.0	10518.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	13442.0	0.0	13442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	1.9
10°-20°	799.3	5.9
20°-30°	1449.7	10.8
30°-40°	2277.2	16.9
40°-50°	3322.0	24.7
50°-60°	4002.4	29.8
60°-70°	1171.9	8.7
70°-80°	148.7	1.1
80°-90°	20.8	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°	13442.0	100.0
0°-180°	13442.0	100.0

Coefficient of Utilization

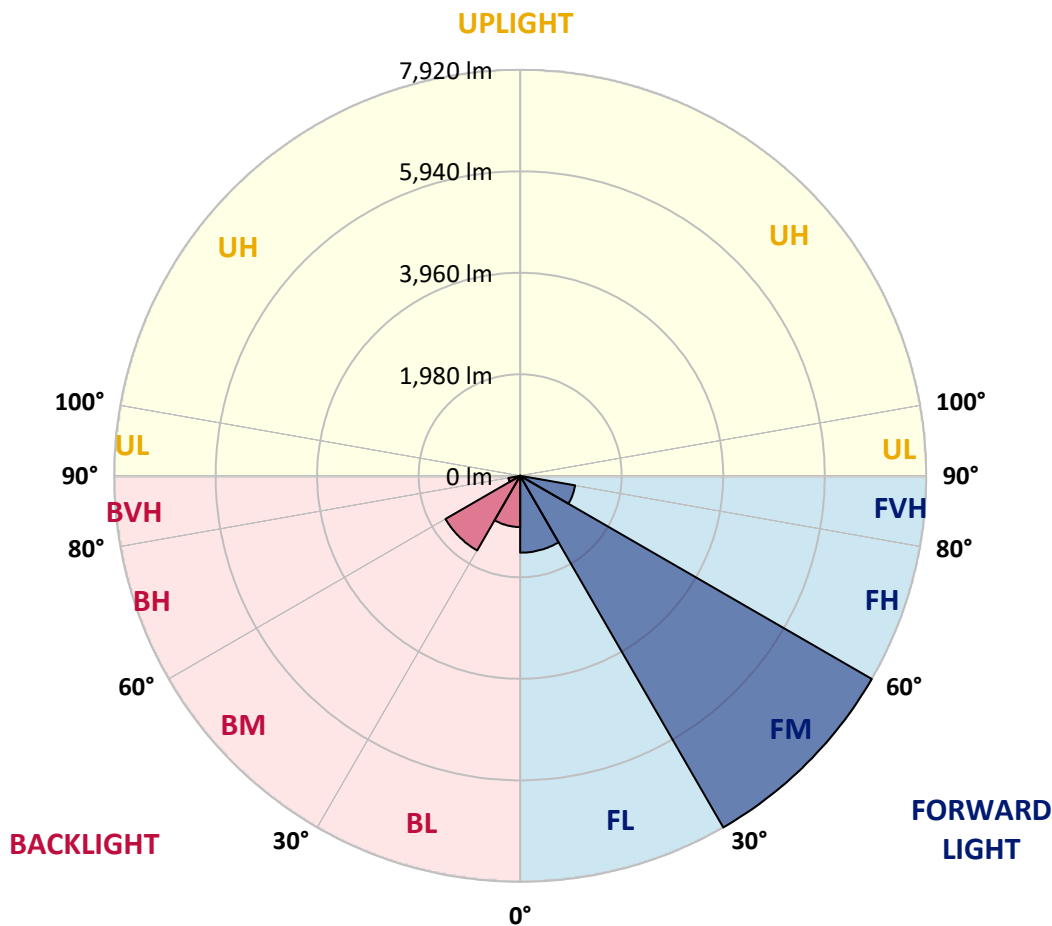


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1499.9	11.2			
FM (30°-60°)	7920.1	58.9			
FH (60°-80°)	1088.2	8.1			G1/1800
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	999.2	7.4	B2/1000		
BM (30°-60°)	1681.5	12.5	B2/2500		
BH (60°-80°)	232.3	1.7	B1/500		G1/500
BVH (80°-90°)	10.4	0.1			G1/100
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°	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4
2.5°	2613.9	2601.7	2601.7	2582.1	2604.1	2594.4	2601.7	2577.2	2601.7	2565.0	2594.4
5°	2626.2	2628.6	2618.8	2631.1	2631.1	2645.7	2621.3	2643.3	2655.5	2628.6	2616.4
7.5°	2689.8	2694.7	2692.3	2682.5	2702.0	2699.6	2697.1	2680.0	2684.9	2675.1	2660.4
10°	2814.6	2812.2	2824.4	2799.9	2785.3	2802.4	2807.3	2780.4	2760.8	2753.4	2706.9
12.5°	2995.7	2966.4	2949.2	2924.8	2932.1	2907.6	2951.7	2905.2	2895.4	2851.3	2804.8
15°	3142.6	3137.7	3140.1	3101.0	3056.9	3066.7	3066.7	3042.2	3027.6	2973.7	2907.6
17.5°	3443.6	3340.8	3362.9	3313.9	3277.2	3274.8	3252.7	3257.6	3218.5	3105.9	3005.5
20°	3678.6	3634.5	3600.3	3517.1	3460.8	3477.9	3468.1	3443.6	3431.4	3284.5	3142.6
22.5°	3889.1	3903.8	3847.5	3825.4	3747.1	3754.5	3774.0	3752.0	3659.0	3507.3	3296.8
25°	4185.2	4168.1	4092.2	4065.3	3991.9	4018.8	4094.7	4077.5	4018.8	3744.7	3416.7
27.5°	4535.2	4476.5	4491.2	4368.8	4297.8	4373.7	4464.2	4549.9	4383.5	4023.7	3558.7
30°	4782.4	4721.2	4716.3	4711.4	4694.3	4782.4	4887.7	4966.0	4831.4	4302.7	3793.6
32.5°	4904.8	4919.5	4961.1	4946.4	5095.7	5276.8	5386.9	5499.5	5330.7	4757.9	4104.5
35°	5230.3	5137.3	5230.3	5240.1	5394.3	5778.5	5918.1	6187.3	6145.7	5401.6	4483.8
37.5°	5421.2	5413.9	5426.1	5519.1	5668.4	6143.2	6341.5	6549.5	6471.2	5788.3	4956.2
40°	5736.9	5756.5	5754.1	5825.1	5989.0	6417.3	6498.1	6667.0	6674.3	6324.3	5651.3
42.5°	6243.6	6165.3	6113.9	6187.3	6417.3	6654.8	6816.3	6782.0	7024.3	6975.4	6544.6
45°	6698.8	6745.3	6669.4	6791.8	6875.0	7002.3	6997.4	7070.8	7379.2	7611.7	7217.7
47.5°	7124.7	7154.0	7190.8	7274.0	7455.1	7474.7	7433.1	7401.2	7827.1	8067.0	7739.0
50°	7379.2	7406.1	7577.5	7726.8	8064.5	8108.6	8133.0	8052.3	8341.1	8368.0	8230.9
52.5°	7310.7	7340.1	7579.9	8071.9	8610.3	9014.1	8940.7	8803.7	8786.5	8891.8	8686.2
55°	6703.7	6676.8	7007.2	7773.3	8781.6	9750.8	9760.6	9616.2	9339.7	9268.7	8617.6
56°	6187.3	6082.0	6503.0	7428.2	8561.4	9687.2	9797.3	9643.2	9383.7	9065.5	8194.2
57.5°	5068.8	5169.1	5587.6	6353.7	7800.2	9229.5	9293.2	9256.4	9060.6	8527.1	7210.3
60°	2795.0	2971.3	3340.8	4278.2	5553.4	7083.1	7134.5	7433.1	7469.8	6529.9	4961.1
62.5°	1187.0	1167.5	1551.7	2241.9	3162.2	4275.8	4371.2	4677.2	4733.5	3764.3	2489.1
65°	482.2	509.1	702.4	1128.3	1671.6	1948.2	2082.8	2183.2	2369.2	1554.2	917.8
67.5°	318.2	315.7	413.6	643.7	900.7	868.9	868.9	917.8	849.3	633.9	396.5
70°	227.6	235.0	296.1	445.4	560.5	416.1	398.9	381.8	433.2	418.5	320.6
72.5°	149.3	159.1	198.2	266.8	291.3	227.6	227.6	274.1	357.3	337.8	261.9
75°	97.9	100.3	122.4	154.2	144.4	117.5	129.7	183.6	259.4	249.6	186.0
77.5°	66.1	68.5	83.2	100.3	80.8	66.1	71.0	93.0	127.3	127.3	97.9
80°	24.5	26.9	34.3	31.8	36.7	46.5	51.4	63.6	75.9	75.9	66.1
82.5°	0.0	2.4	7.3	17.1	26.9	36.7	41.6	49.0	56.3	63.6	61.2
85°	0.0	2.4	7.3	12.2	19.6	22.0	24.5	17.1	14.7	14.7	12.2
87.5°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4
2.5°	2567.4	2565.0	2565.0	2557.6	2572.3	2565.0	2569.9	2567.4	2535.6	2560.1	2543.0
5°	2594.4	2611.5	2584.6	2579.7	2560.1	2567.4	2567.4	2543.0	2565.0	2562.5	2557.6
7.5°	2662.9	2633.5	2604.1	2574.8	2569.9	2562.5	2535.6	2525.8	2543.0	2523.4	2552.7
10°	2692.3	2697.1	2653.1	2613.9	2577.2	2525.8	2489.1	2467.1	2440.2	2469.5	2486.7
12.5°	2826.9	2777.9	2702.0	2640.9	2516.0	2464.6	2427.9	2418.1	2464.6	2474.4	2457.3
15°	2873.4	2866.0	2768.1	2631.1	2501.3	2440.2	2447.5	2427.9	2432.8	2408.3	2413.2
17.5°	2968.8	2885.6	2770.6	2599.2	2498.9	2484.2	2440.2	2361.8	2317.8	2298.2	2315.3
20°	3074.1	2993.3	2826.9	2611.5	2520.9	2481.8	2337.4	2241.9	2151.4	2102.4	2104.9
22.5°	3167.1	3066.7	2802.4	2616.4	2540.5	2379.0	2205.2	2016.7	1904.2	1828.3	1830.7
25°	3279.7	3137.7	2812.2	2626.2	2489.1	2215.0	1965.3	1781.8	1647.2	1595.8	1612.9
27.5°	3343.3	3181.8	2866.0	2648.2	2354.5	1982.5	1713.3	1541.9	1463.6	1439.1	1436.7
30°	3534.2	3279.7	2932.1	2604.1	2129.3	1732.8	1483.2	1377.9	1302.1	1280.0	1284.9
32.5°	3818.1	3458.3	3017.8	2489.1	1899.3	1510.1	1333.9	1255.6	1184.6	1143.0	1138.1
35°	4055.5	3764.3	3108.3	2310.4	1632.5	1338.8	1228.6	1130.7	1023.1	976.6	964.3
37.5°	4508.3	4109.4	3088.7	2041.2	1377.9	1211.5	1116.1	996.1	903.1	839.5	832.2
40°	5110.4	4513.2	2993.3	1713.3	1189.5	1098.9	996.1	881.1	766.1	712.2	707.3
42.5°	5842.2	5007.6	2819.5	1380.4	1001.0	986.3	893.3	761.2	658.4	619.2	621.7
45°	6436.9	5431.0	2643.3	1108.7	861.5	876.2	795.4	670.6	599.6	567.8	567.8
47.5°	6965.6	5717.4	2452.4	915.4	731.8	766.1	695.1	621.7	560.5	536.0	531.1
50°	7474.7	6008.6	2261.5	741.6	624.1	658.4	651.0	592.3	543.3	514.0	516.4
52.5°	7792.8	6055.1	2019.2	607.0	545.8	585.0	609.4	555.6	501.7	484.6	479.7
55°	7403.7	5455.5	1566.4	499.3	462.6	514.0	560.5	499.3	457.7	428.3	425.9
56°	6879.9	4877.9	1309.4	460.1	438.1	494.4	543.3	477.3	430.8	413.6	401.4
57.5°	5825.1	3991.9	966.8	408.7	406.3	460.1	516.4	455.2	401.4	386.7	386.7
60°	3632.1	2246.8	585.0	342.7	352.4	408.7	465.0	406.3	357.3	357.3	364.7
62.5°	1654.5	934.9	354.9	291.3	303.5	352.4	413.6	367.1	340.2	367.1	372.0
65°	562.9	403.8	257.0	232.5	239.9	291.3	354.9	372.0	369.6	386.7	396.5
67.5°	315.7	259.4	215.4	193.4	188.5	215.4	291.3	372.0	357.3	350.0	354.9
70°	266.8	220.3	190.9	171.3	164.0	173.8	225.2	281.5	252.1	244.8	239.9
72.5°	215.4	183.6	166.4	154.2	132.2	112.6	102.8	107.7	119.9	127.3	139.5
75°	151.7	139.5	139.5	124.8	95.5	71.0	56.3	46.5	31.8	22.0	24.5
77.5°	85.7	85.7	88.1	75.9	61.2	46.5	34.3	24.5	12.2	4.9	2.4
80°	58.7	63.6	68.5	61.2	51.4	41.6	29.4	17.1	7.3	0.0	0.0
82.5°	58.7	66.1	71.0	61.2	51.4	39.2	29.4	17.1	7.3	2.4	0.0
85°	12.2	14.7	17.1	19.6	29.4	29.4	22.0	14.7	7.3	2.4	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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)