

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: P528477

Luminaire Tested: **GALN-SA3C-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528477
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-SA3C-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 12533 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

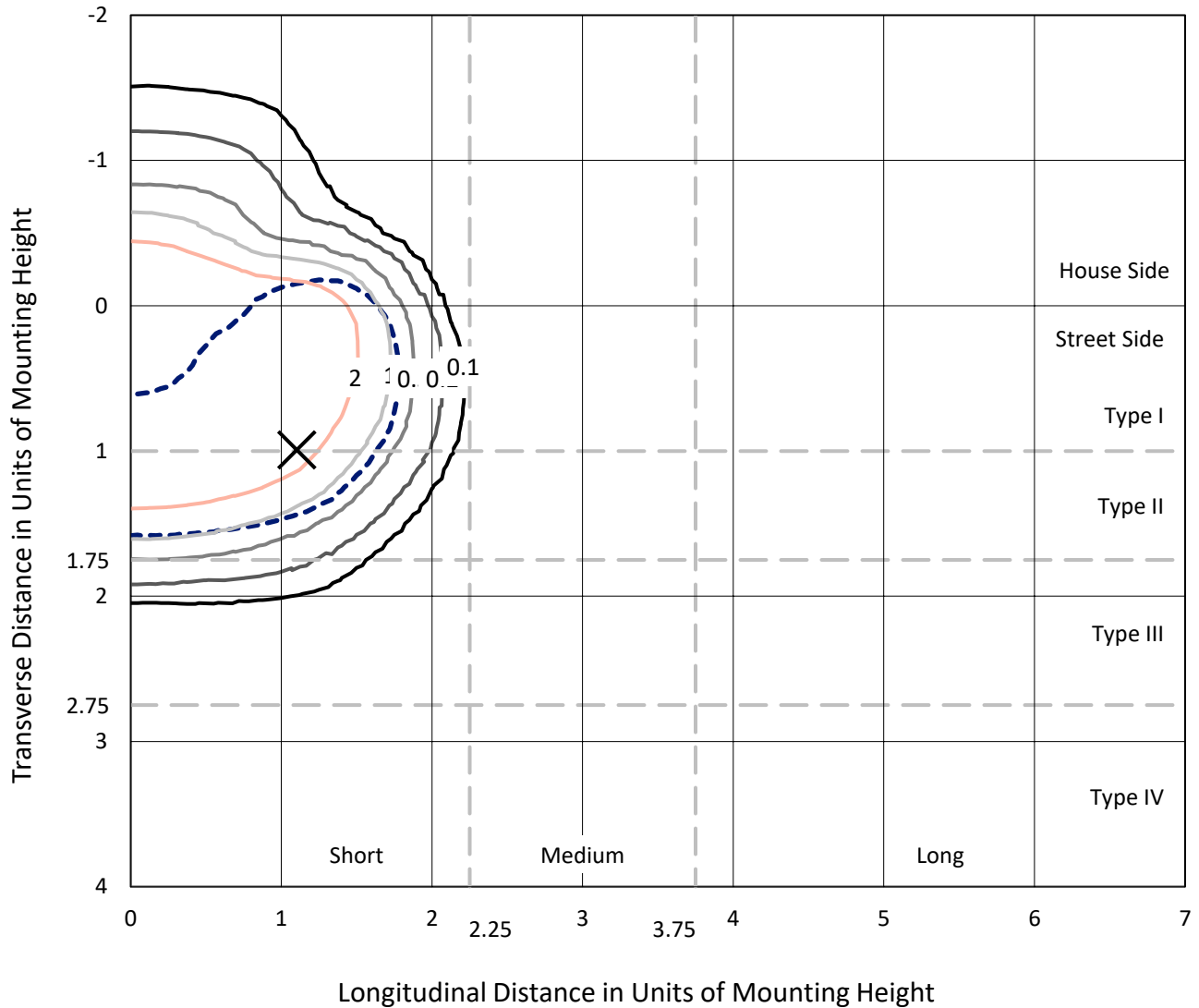
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

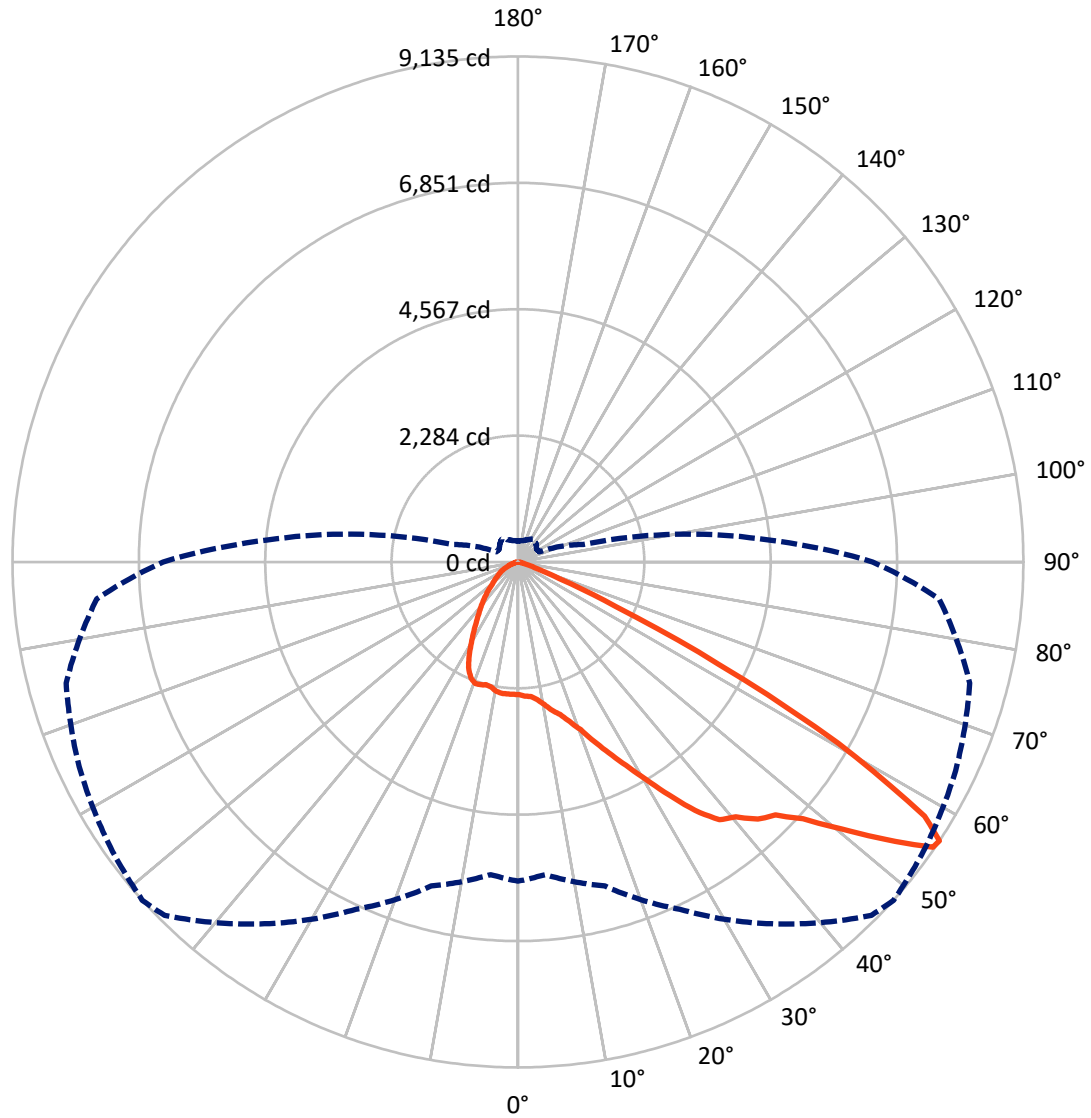
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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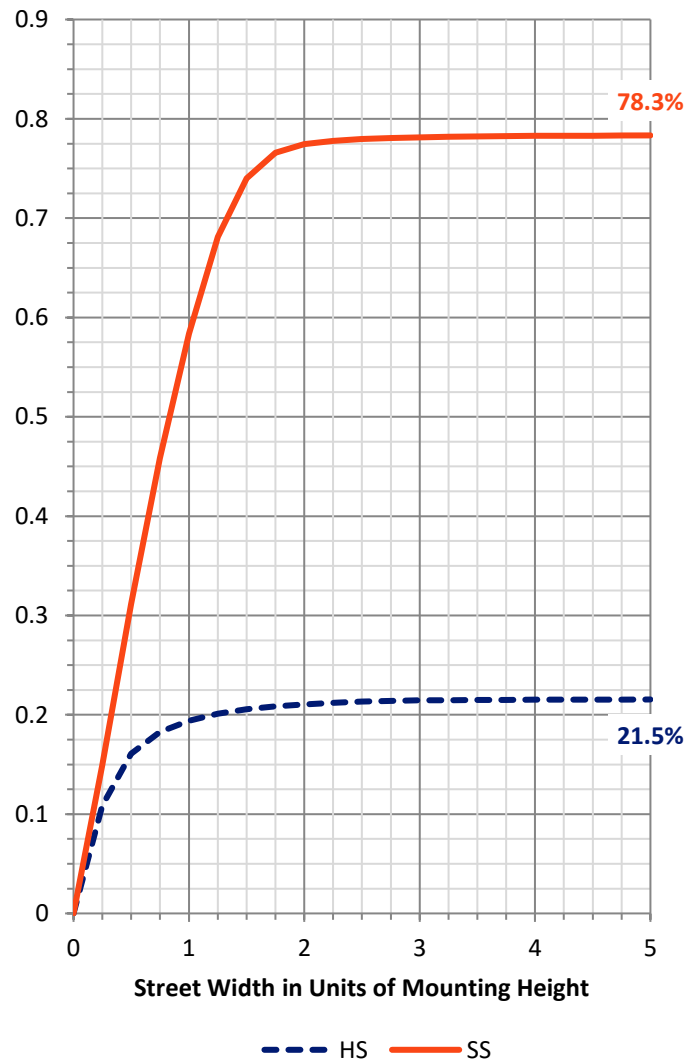
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2725.7	0.0	2725.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9807.3	0.0	9807.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	12533.0	0.0	12533.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	1.9
10°-20°	745.2	5.9
20°-30°	1351.7	10.8
30°-40°	2123.2	16.9
40°-50°	3097.4	24.7
50°-60°	3731.7	29.8
60°-70°	1092.6	8.7
70°-80°	138.6	1.1
80°-90°	19.4	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°	12533.0	100.0
0°-180°	12533.0	100.0

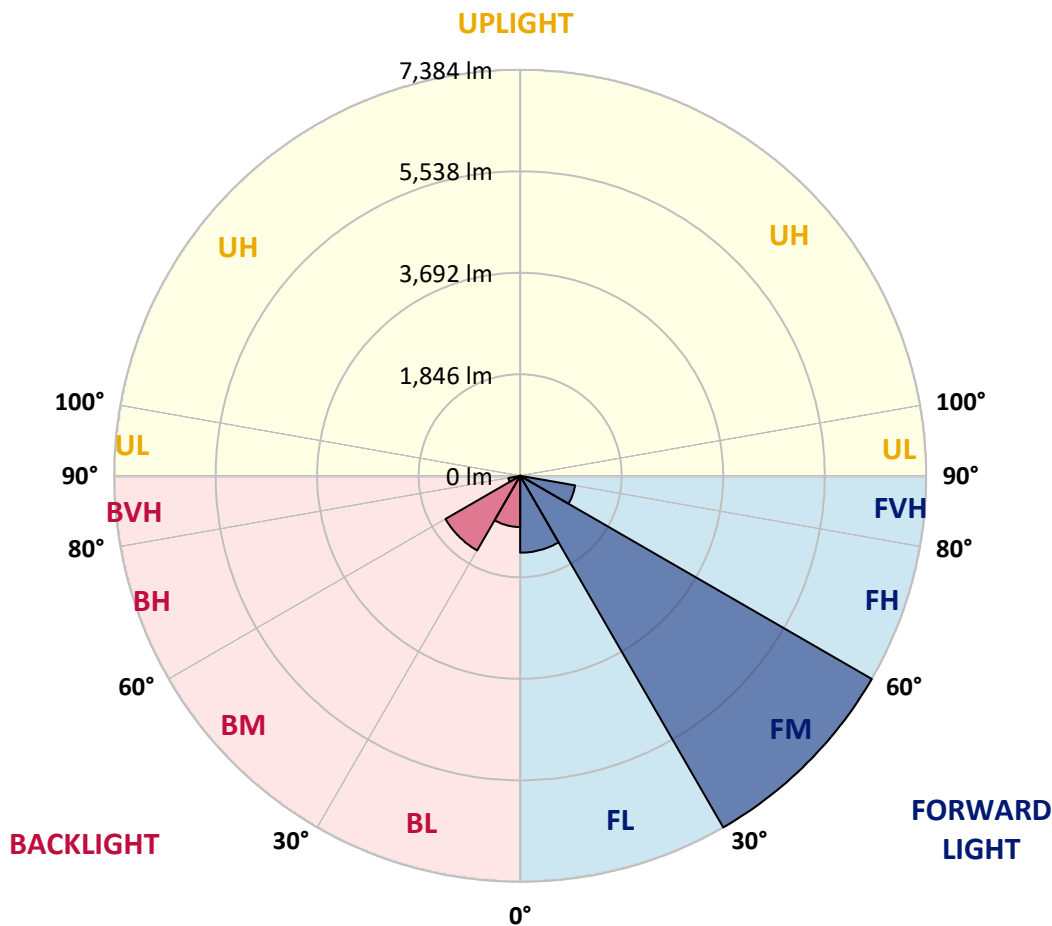


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.4	11.2			
FM (30°-60°)	7384.5	58.9			
FH (60°-80°)	1014.6	8.1			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	931.6	7.4	B2/1000		
BM (30°-60°)	1567.8	12.5	B2/2500		
BH (60°-80°)	216.6	1.7	B1/500		G1/500
BVH (80°-90°)	9.7	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°	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8
2.5°	2437.2	2425.8	2425.8	2407.5	2428.0	2418.9	2425.8	2402.9	2425.8	2391.5	2418.9
5°	2448.6	2450.9	2441.7	2453.1	2453.1	2466.8	2444.0	2464.6	2476.0	2450.9	2439.4
7.5°	2507.9	2512.5	2510.2	2501.1	2519.3	2517.0	2514.8	2498.8	2503.3	2494.2	2480.5
10°	2624.3	2622.0	2633.4	2610.6	2596.9	2612.9	2617.4	2592.3	2574.1	2567.2	2523.9
12.5°	2793.2	2765.8	2749.8	2727.0	2733.8	2711.0	2752.1	2708.7	2699.6	2658.5	2615.2
15°	2930.1	2925.5	2927.8	2891.3	2850.2	2859.3	2859.3	2836.5	2822.8	2772.6	2711.0
17.5°	3210.8	3114.9	3135.5	3089.8	3055.6	3053.3	3032.8	3037.3	3000.8	2895.8	2802.3
20°	3429.8	3388.8	3356.8	3279.2	3226.7	3242.7	3233.6	3210.8	3199.4	3062.4	2930.1
22.5°	3626.1	3639.8	3587.3	3566.8	3493.7	3500.6	3518.8	3498.3	3411.6	3270.1	3073.8
25°	3902.2	3886.2	3815.5	3790.4	3721.9	3747.0	3817.8	3801.8	3747.0	3491.4	3185.7
27.5°	4228.5	4173.8	4187.5	4073.4	4007.2	4077.9	4162.4	4242.2	4087.0	3751.6	3318.0
30°	4459.0	4402.0	4397.4	4392.8	4376.9	4459.0	4557.1	4630.2	4504.6	4011.7	3537.1
32.5°	4573.1	4586.8	4625.6	4611.9	4751.1	4920.0	5022.7	5127.6	4970.2	4436.2	3826.9
35°	4876.6	4789.9	4876.6	4885.7	5029.5	5387.8	5517.9	5768.9	5730.1	5036.4	4180.6
37.5°	5054.6	5047.8	5059.2	5145.9	5285.1	5727.8	5912.6	6106.6	6033.6	5396.9	4621.0
40°	5349.0	5367.2	5365.0	5431.1	5584.0	5983.4	6058.7	6216.1	6223.0	5896.7	5269.1
42.5°	5821.4	5748.3	5700.4	5768.9	5983.4	6204.7	6355.3	6323.4	6549.3	6503.7	6102.0
45°	6245.8	6289.2	6218.4	6332.5	6410.1	6528.8	6524.2	6592.7	6880.2	7097.0	6729.6
47.5°	6642.9	6670.3	6704.5	6782.1	6950.9	6969.2	6930.4	6900.7	7297.8	7521.4	7215.7
50°	6880.2	6905.3	7065.0	7204.2	7519.2	7560.2	7583.1	7507.7	7777.0	7802.1	7674.3
52.5°	6816.3	6843.7	7067.3	7526.0	8028.0	8404.6	8336.1	8208.3	8192.3	8290.5	8098.8
55°	6250.4	6225.3	6533.3	7247.6	8187.8	9091.5	9100.6	8965.9	8708.1	8641.9	8034.9
56°	5768.9	5670.7	6063.2	6925.8	7982.4	9032.1	9134.8	8991.0	8749.2	8452.5	7640.1
57.5°	4726.0	4819.6	5209.8	5924.0	7272.7	8605.4	8664.7	8630.5	8447.9	7950.5	6722.7
60°	2606.0	2770.3	3114.9	3988.9	5177.8	6604.1	6652.0	6930.4	6964.6	6088.4	4625.6
62.5°	1106.8	1088.5	1446.8	2090.3	2948.3	3986.6	4075.6	4360.9	4413.4	3509.7	2320.8
65°	449.6	474.7	654.9	1052.0	1558.6	1816.5	1942.0	2035.5	2209.0	1449.1	855.7
67.5°	296.7	294.4	385.7	600.2	839.8	810.1	810.1	855.7	791.9	591.0	369.7
70°	212.2	219.1	276.1	415.3	522.6	387.9	372.0	356.0	403.9	390.2	298.9
72.5°	139.2	148.3	184.8	248.7	271.6	212.2	212.2	255.6	333.2	314.9	244.2
75°	91.3	93.6	114.1	143.8	134.6	109.5	120.9	171.1	241.9	232.8	173.4
77.5°	61.6	63.9	77.6	93.6	75.3	61.6	66.2	86.7	118.7	118.7	91.3
80°	22.8	25.1	31.9	29.7	34.2	43.4	47.9	59.3	70.7	70.7	61.6
82.5°	0.0	2.3	6.8	16.0	25.1	34.2	38.8	45.6	52.5	59.3	57.0
85°	0.0	2.3	6.8	11.4	18.3	20.5	22.8	16.0	13.7	13.7	11.4
87.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8	2393.8
2.5°	2393.8	2391.5	2391.5	2384.7	2398.4	2391.5	2396.1	2393.8	2364.1	2387.0	2371.0
5°	2418.9	2434.9	2409.8	2405.2	2387.0	2393.8	2393.8	2371.0	2391.5	2389.2	2384.7
7.5°	2482.8	2455.4	2428.0	2400.7	2396.1	2389.2	2364.1	2355.0	2371.0	2352.7	2380.1
10°	2510.2	2514.8	2473.7	2437.2	2402.9	2355.0	2320.8	2300.2	2275.1	2302.5	2318.5
12.5°	2635.7	2590.1	2519.3	2462.3	2345.9	2298.0	2263.7	2254.6	2298.0	2307.1	2291.1
15°	2679.1	2672.2	2580.9	2453.1	2332.2	2275.1	2282.0	2263.7	2268.3	2245.5	2250.0
17.5°	2768.1	2690.5	2583.2	2423.5	2329.9	2316.2	2275.1	2202.1	2161.0	2142.8	2158.8
20°	2866.2	2790.9	2635.7	2434.9	2350.5	2313.9	2179.3	2090.3	2005.9	1960.2	1962.5
22.5°	2952.9	2859.3	2612.9	2439.4	2368.7	2218.1	2056.1	1880.4	1775.4	1704.6	1706.9
25°	3057.9	2925.5	2622.0	2448.6	2320.8	2065.2	1832.4	1661.3	1535.8	1487.9	1503.8
27.5°	3117.2	2966.6	2672.2	2469.1	2195.3	1848.4	1597.4	1437.7	1364.6	1341.8	1339.5
30°	3295.2	3057.9	2733.8	2428.0	1985.3	1615.6	1382.9	1284.8	1214.0	1193.5	1198.0
32.5°	3559.9	3224.5	2813.7	2320.8	1770.8	1408.0	1243.7	1170.7	1104.5	1065.7	1061.1
35°	3781.3	3509.7	2898.1	2154.2	1522.1	1248.2	1145.6	1054.3	953.9	910.5	899.1
37.5°	4203.4	3831.5	2879.9	1903.2	1284.8	1129.6	1040.6	928.8	842.1	782.7	775.9
40°	4764.8	4208.0	2790.9	1597.4	1109.0	1024.6	928.8	821.5	714.3	664.1	659.5
42.5°	5447.1	4669.0	2628.9	1287.0	933.3	919.6	832.9	709.7	613.9	577.3	579.6
45°	6001.6	5063.7	2464.6	1033.7	803.3	817.0	741.6	625.3	559.1	529.4	529.4
47.5°	6494.5	5330.7	2286.6	853.5	682.3	714.3	648.1	579.6	522.6	499.8	495.2
50°	6969.2	5602.3	2108.6	691.4	581.9	613.9	607.0	552.2	506.6	479.2	481.5
52.5°	7265.9	5645.6	1882.6	565.9	508.9	545.4	568.2	518.0	467.8	451.8	447.3
55°	6903.0	5086.6	1460.5	465.5	431.3	479.2	522.6	465.5	426.7	399.3	397.1
56°	6414.7	4548.0	1220.9	429.0	408.5	461.0	506.6	445.0	401.6	385.7	374.2
57.5°	5431.1	3721.9	901.4	381.1	378.8	429.0	481.5	424.5	374.2	360.6	360.6
60°	3386.5	2094.9	545.4	319.5	328.6	381.1	433.6	378.8	333.2	333.2	340.0
62.5°	1542.6	871.7	330.9	271.6	283.0	328.6	385.7	342.3	317.2	342.3	346.9
65°	524.9	376.5	239.6	216.8	223.6	271.6	330.9	346.9	344.6	360.6	369.7
67.5°	294.4	241.9	200.8	180.3	175.7	200.8	271.6	346.9	333.2	326.3	330.9
70°	248.7	205.4	178.0	159.7	152.9	162.0	209.9	262.4	235.0	228.2	223.6
72.5°	200.8	171.1	155.2	143.8	123.2	105.0	95.8	100.4	111.8	118.7	130.1
75°	141.5	130.1	130.1	116.4	89.0	66.2	52.5	43.4	29.7	20.5	22.8
77.5°	79.9	79.9	82.2	70.7	57.0	43.4	31.9	22.8	11.4	4.6	2.3
80°	54.8	59.3	63.9	57.0	47.9	38.8	27.4	16.0	6.8	0.0	0.0
82.5°	54.8	61.6	66.2	57.0	47.9	36.5	27.4	16.0	6.8	2.3	0.0
85°	11.4	13.7	16.0	18.3	27.4	27.4	20.5	13.7	6.8	2.3	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	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)