

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: P453402

Luminaire Tested: **GALN-SA4B-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17738 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

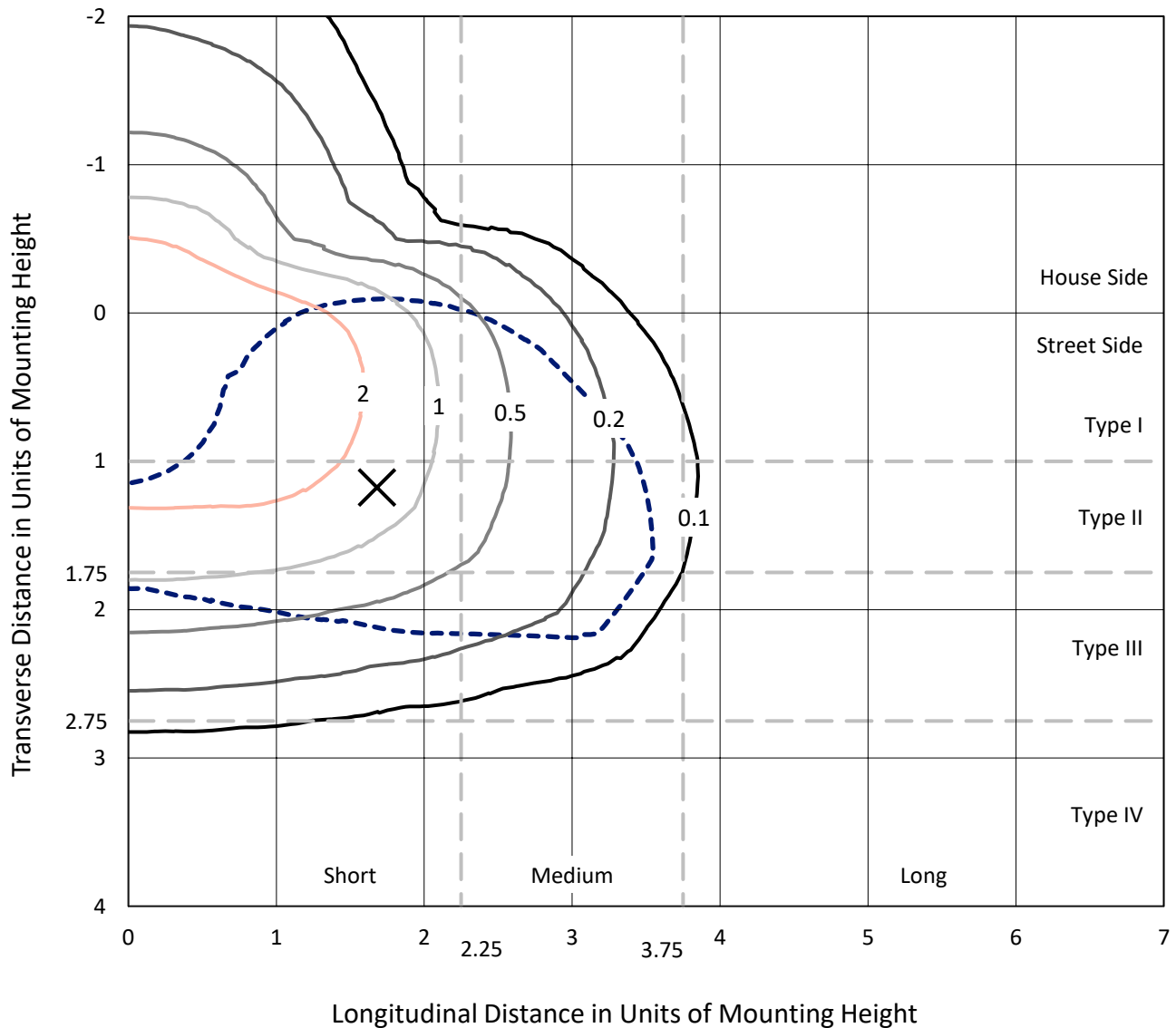


REPORT NUMBER: P453402

CATALOG NUMBER: GALN-SA4B-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

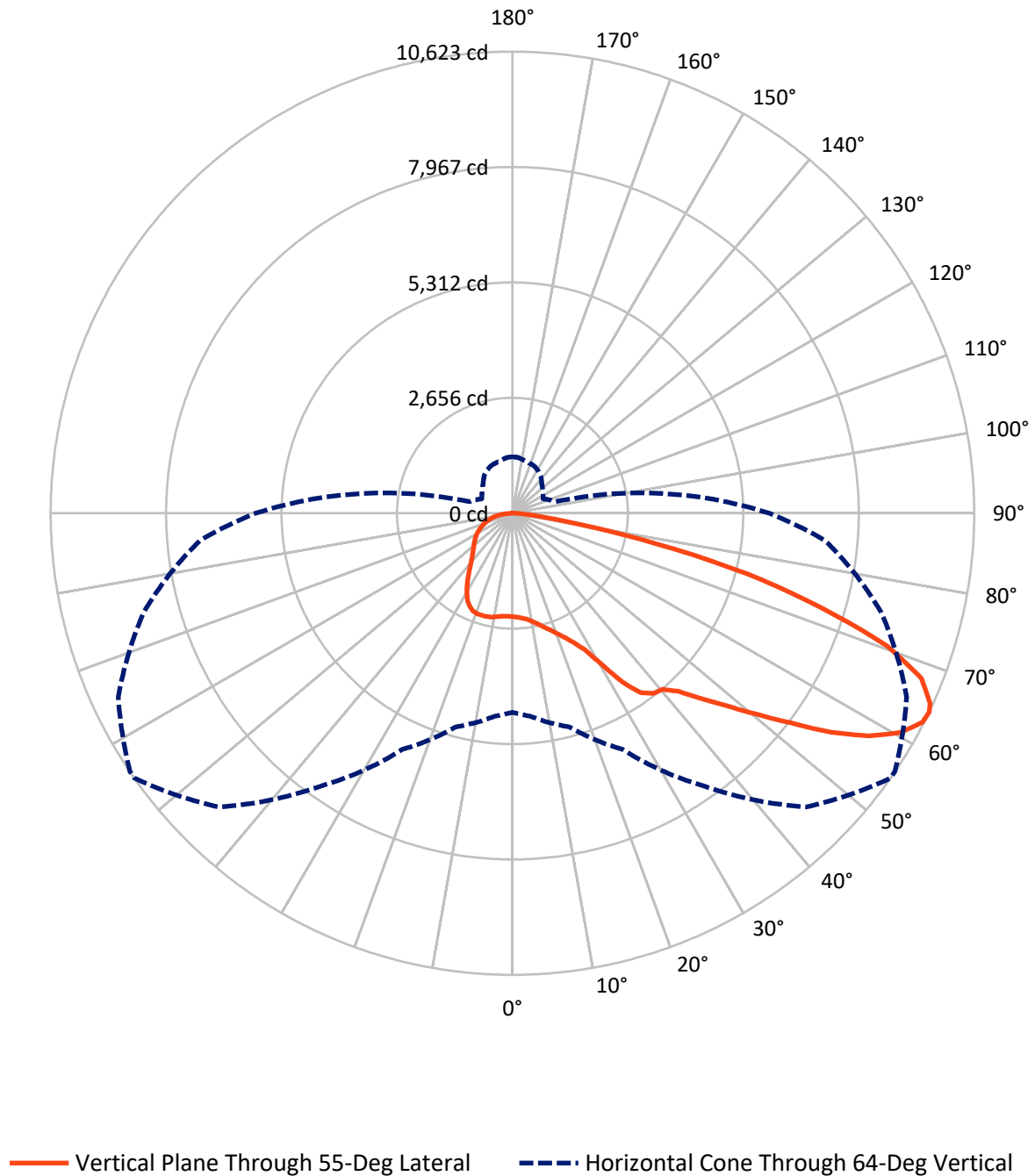


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

REPORT NUMBER: P453402

CATALOG NUMBER: GALN-SA4B-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P453402

CATALOG NUMBER: GALN-SA4B-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4308.9	0.0	4308.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	13429.1	0.0	13429.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	17738.0	0.0	17738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	1.3
10°-20°	730.5	4.1
20°-30°	1300.4	7.3
30°-40°	2000.8	11.3
40°-50°	2836.3	16.0
50°-60°	4105.5	23.1
60°-70°	4248.8	24.0
70°-80°	1989.7	11.2
80°-90°	294.6	1.7
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°	17738.0	100.0
0°-180°	17738.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453402

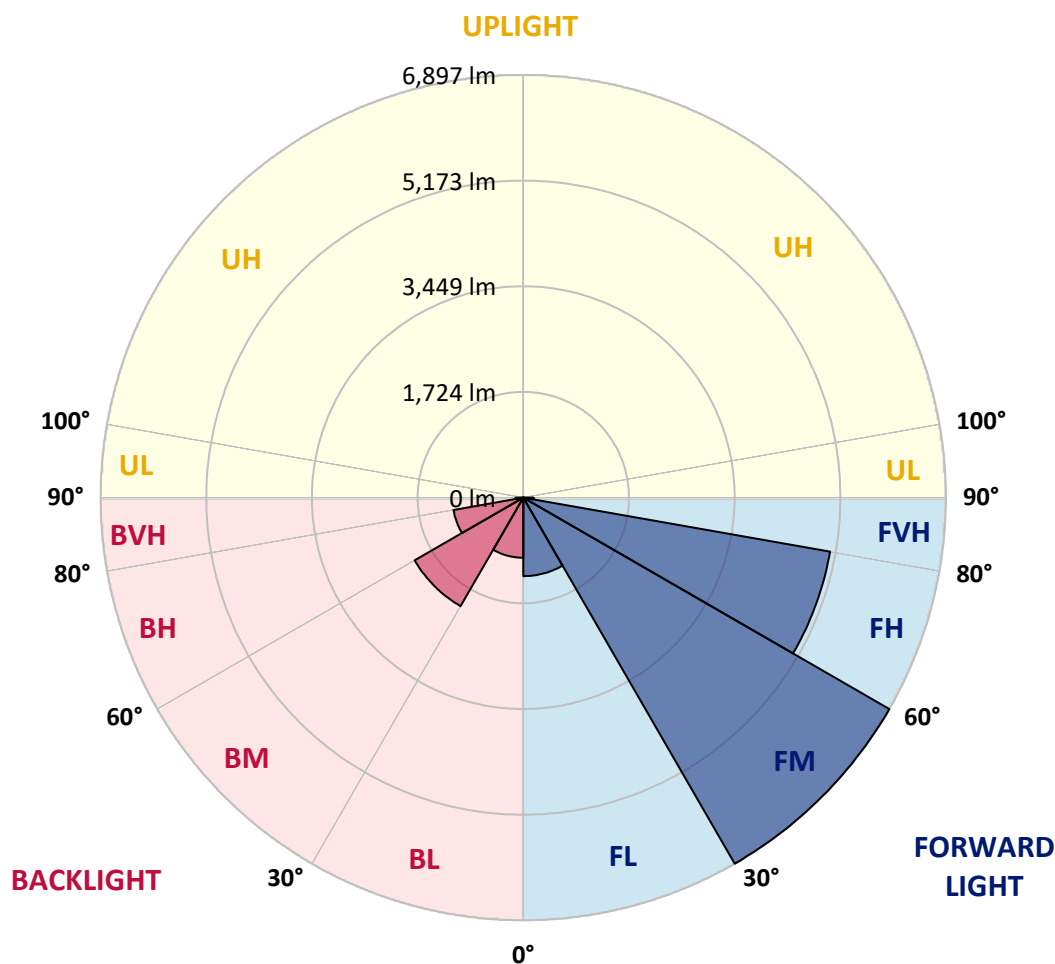
CATALOG NUMBER: GALN-SA4B-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1281.0	7.2			
FM	(30°-60°)	6897.0	38.9			
FH	(60°-80°)	5082.5	28.7			G3/7500
FVH	(80°-90°)	168.7	1.0			G2/225
BL	(0°-30°)	981.4	5.5	B2/1000		
BM	(30°-60°)	2045.6	11.5	B2/2500		
BH	(60°-80°)	1156.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	125.9	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P453402

CATALOG NUMBER: GALN-SA4B-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9
2.5°	2406.6	2405.6	2408.6	2405.6	2407.6	2400.7	2397.7	2399.7	2396.7	2391.8	2382.9
5°	2436.3	2435.3	2436.3	2432.3	2434.3	2430.3	2423.4	2425.4	2420.4	2409.6	2396.7
7.5°	2486.7	2482.7	2482.7	2481.7	2477.8	2471.9	2466.9	2464.9	2460.0	2446.1	2426.4
10°	2551.9	2551.9	2552.9	2545.0	2550.0	2539.1	2534.1	2533.2	2516.4	2498.6	2470.9
12.5°	2638.0	2642.9	2639.9	2636.0	2634.0	2630.1	2613.2	2617.2	2598.4	2567.8	2534.1
15°	2744.8	2752.7	2747.7	2745.7	2740.8	2726.0	2719.0	2716.1	2691.4	2646.9	2602.4
17.5°	2886.1	2876.3	2872.3	2867.4	2846.6	2835.7	2823.8	2821.9	2800.1	2747.7	2678.5
20°	3009.7	3023.6	3015.7	3010.7	2990.0	2969.2	2960.3	2957.3	2938.5	2881.2	2770.5
22.5°	3157.1	3160.0	3163.0	3151.1	3141.2	3125.4	3109.6	3104.7	3097.7	3038.4	2902.9
25°	3314.3	3326.1	3316.2	3304.4	3292.5	3291.5	3306.4	3304.4	3301.4	3244.1	3078.9
27.5°	3570.4	3581.2	3584.2	3571.3	3525.9	3529.8	3563.4	3574.3	3619.8	3524.9	3305.4
30°	3714.7	3725.6	3750.3	3798.8	3870.9	3934.2	4015.3	4040.0	4083.5	3904.5	3574.3
32.5°	3803.7	3807.6	3852.1	3942.1	4158.7	4395.0	4615.5	4624.4	4652.0	4400.9	3820.5
35°	3944.1	3947.1	3982.7	4081.5	4335.6	4729.2	5070.3	5081.1	5058.4	4555.1	3935.2
37.5°	4117.1	4125.0	4147.8	4229.8	4533.4	5009.0	5259.1	5251.2	5049.5	4677.7	4137.9
40°	4369.3	4369.3	4342.6	4453.3	4742.0	5169.1	5325.4	5311.5	5258.1	5032.7	4446.4
42.5°	4591.7	4587.8	4651.0	4726.2	5003.0	5416.3	5603.2	5625.9	5713.9	5478.6	4797.4
45°	4881.4	4899.2	4934.8	5071.3	5447.0	5838.5	6079.8	6101.5	6226.1	6003.6	5207.7
47.5°	5174.1	5180.0	5291.8	5473.7	5996.7	6411.0	6608.8	6644.4	6758.1	6617.7	5649.7
50°	5381.7	5438.1	5617.0	5903.8	6563.3	7109.1	7263.3	7305.8	7506.5	7286.0	6164.8
52.5°	5601.2	5656.6	5875.1	6312.1	7213.9	7822.9	8012.8	8041.4	8250.1	7962.3	6691.8
55°	5789.1	5840.5	6088.7	6674.0	7732.0	8551.6	8895.7	8862.1	8962.0	8483.4	7098.2
57.5°	5819.7	5861.3	6173.7	6905.4	8121.5	9176.5	9669.9	9689.7	9574.0	8873.0	7433.4
60°	5582.4	5667.5	6026.4	6880.7	8296.5	9611.6	10247.3	10261.2	9932.9	9072.7	7566.8
62.5°	5162.2	5153.3	5587.4	6483.2	8051.3	9710.4	10587.5	10572.6	10073.3	8976.8	7437.3
64°	4581.8	4688.6	5094.0	5994.7	7655.8	9558.2	10623.1	10615.1	10006.1	8777.1	7216.8
65°	4227.9	4221.9	4622.4	5595.3	7262.3	9328.8	10559.8	10548.9	9865.7	8598.1	7045.8
67.5°	3052.2	3066.1	3461.6	4317.8	5903.8	8432.0	10147.5	10106.9	9312.0	8004.9	6395.2
70°	1848.9	1856.9	2167.3	2864.4	4237.8	6816.4	9146.9	9148.8	8464.6	7118.9	5443.0
72.5°	973.9	994.7	1119.3	1626.5	2573.7	4782.5	7420.5	7596.5	7267.3	6075.8	4300.0
75°	541.8	544.8	632.8	801.9	1313.1	2676.5	5577.5	5627.9	5753.5	4890.3	3179.8
77.5°	413.3	419.2	446.9	518.1	714.9	1240.9	3375.6	3628.7	4054.8	3447.7	1814.3
80°	335.2	341.1	364.8	407.4	475.6	588.3	1568.1	1704.6	2170.3	1530.6	707.9
82.5°	261.0	257.1	287.7	315.4	346.1	348.0	643.7	711.9	883.9	658.5	306.5
85°	193.8	193.8	218.5	212.6	223.5	203.7	283.8	313.4	354.0	279.8	142.4
87.5°	77.1	85.0	143.4	128.5	99.9	80.1	104.8	110.7	122.6	109.8	59.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453402

CATALOG NUMBER: GALN-SA4B-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9
2.5°	2383.9	2386.8	2379.9	2375.0	2373.0	2370.0	2367.1	2368.0	2372.0	2375.9	2375.0
5°	2395.7	2396.7	2384.8	2378.9	2375.0	2371.0	2371.0	2374.0	2381.9	2387.8	2387.8
7.5°	2425.4	2425.4	2408.6	2397.7	2391.8	2384.8	2382.9	2383.9	2389.8	2397.7	2398.7
10°	2471.9	2467.9	2446.1	2429.3	2418.5	2401.7	2386.8	2378.9	2381.9	2386.8	2386.8
12.5°	2528.2	2517.3	2489.7	2466.9	2440.2	2408.6	2377.9	2362.1	2361.1	2366.1	2364.1
15°	2588.5	2576.7	2538.1	2496.6	2450.1	2403.6	2367.1	2344.3	2326.5	2321.6	2332.4
17.5°	2658.7	2634.0	2580.6	2523.3	2454.1	2393.7	2336.4	2289.9	2258.3	2249.4	2252.4
20°	2743.8	2711.1	2639.0	2549.0	2451.1	2358.2	2269.2	2206.9	2155.5	2139.6	2141.6
22.5°	2861.4	2805.1	2699.3	2561.8	2426.4	2290.9	2167.3	2086.2	2024.0	1999.2	2014.1
25°	2994.9	2933.6	2756.6	2558.9	2362.1	2183.1	2046.7	1940.9	1884.5	1848.0	1855.9
27.5°	3178.8	3070.0	2817.9	2532.2	2270.2	2051.6	1893.4	1793.6	1742.2	1723.4	1732.3
30°	3414.1	3247.0	2884.2	2460.0	2124.8	1885.5	1739.2	1673.9	1643.3	1619.6	1627.5
32.5°	3584.2	3371.6	2899.0	2338.4	1967.6	1734.3	1634.4	1585.9	1552.3	1529.6	1534.5
35°	3705.8	3477.4	2892.1	2189.1	1803.5	1609.7	1551.3	1511.8	1457.4	1408.0	1399.1
37.5°	3869.0	3609.9	2841.6	2025.9	1641.3	1525.6	1484.1	1410.9	1332.8	1266.6	1263.6
40°	4119.1	3765.1	2733.9	1834.1	1502.9	1463.3	1412.9	1318.0	1234.0	1180.6	1176.6
42.5°	4377.2	3908.5	2587.5	1632.4	1389.2	1398.1	1336.8	1242.8	1191.4	1156.8	1152.9
45°	4692.6	4063.7	2429.3	1457.4	1305.1	1336.8	1270.5	1216.2	1185.5	1162.8	1156.8
47.5°	5033.7	4222.9	2251.4	1300.2	1234.0	1280.4	1242.8	1218.1	1201.3	1185.5	1178.6
50°	5401.5	4400.9	2084.3	1173.6	1169.7	1222.1	1239.9	1231.0	1221.1	1216.2	1210.2
52.5°	5804.9	4582.8	1943.9	1084.7	1113.3	1180.6	1240.9	1247.8	1247.8	1244.8	1240.9
55°	6077.8	4709.4	1801.5	1012.5	1056.0	1146.9	1238.9	1265.6	1275.5	1271.5	1267.6
57.5°	6279.5	4778.6	1622.5	950.2	1007.5	1114.3	1228.0	1267.6	1277.5	1282.4	1280.4
60°	6321.0	4714.3	1388.2	884.9	955.1	1066.9	1188.5	1237.9	1250.8	1281.4	1284.4
62.5°	6134.2	4516.6	1154.9	820.7	890.9	994.7	1135.1	1204.3	1230.0	1277.5	1282.4
64°	5904.8	4295.1	1025.3	780.1	849.3	954.1	1108.4	1195.4	1229.0	1292.3	1296.2
65°	5736.7	4133.9	944.2	754.4	822.6	927.4	1093.5	1198.4	1237.9	1315.0	1321.0
67.5°	5117.7	3579.2	781.1	694.1	759.4	882.0	1096.5	1223.1	1235.9	1323.9	1322.9
70°	4234.8	2849.6	654.5	638.7	698.1	845.4	1084.7	1183.5	1184.5	1242.8	1229.0
72.5°	3170.9	2106.0	567.5	581.4	629.8	758.4	1024.3	1130.1	1113.3	1121.2	1107.4
75°	2178.2	1393.1	488.4	520.1	558.6	670.4	939.3	1026.3	999.6	989.7	979.8
77.5°	1162.8	770.2	406.4	459.8	485.5	579.4	819.7	903.7	876.0	837.5	824.6
80°	470.6	362.9	327.3	380.7	395.5	466.7	682.2	734.6	713.9	646.6	624.9
82.5°	236.3	217.5	257.1	299.6	300.6	333.2	507.2	556.7	510.2	428.1	409.3
85°	123.6	127.5	177.0	210.6	185.9	180.0	304.5	337.2	309.5	268.9	242.2
87.5°	44.5	51.4	92.9	92.0	65.3	34.6	67.2	32.6	17.8	10.9	13.8
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)