

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: P522774

Luminaire Tested: **GALN-SA5B-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22660 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 204
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

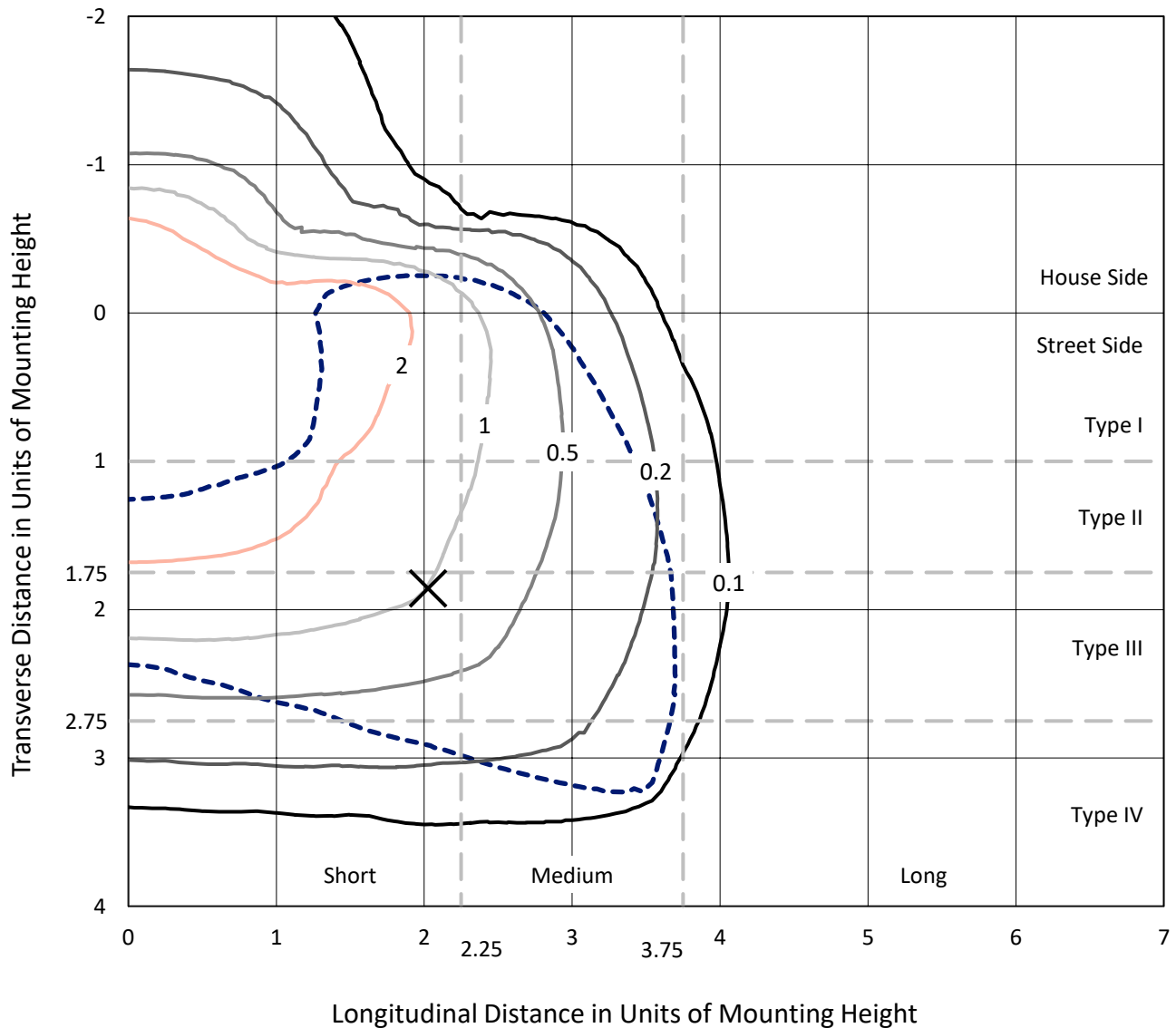


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

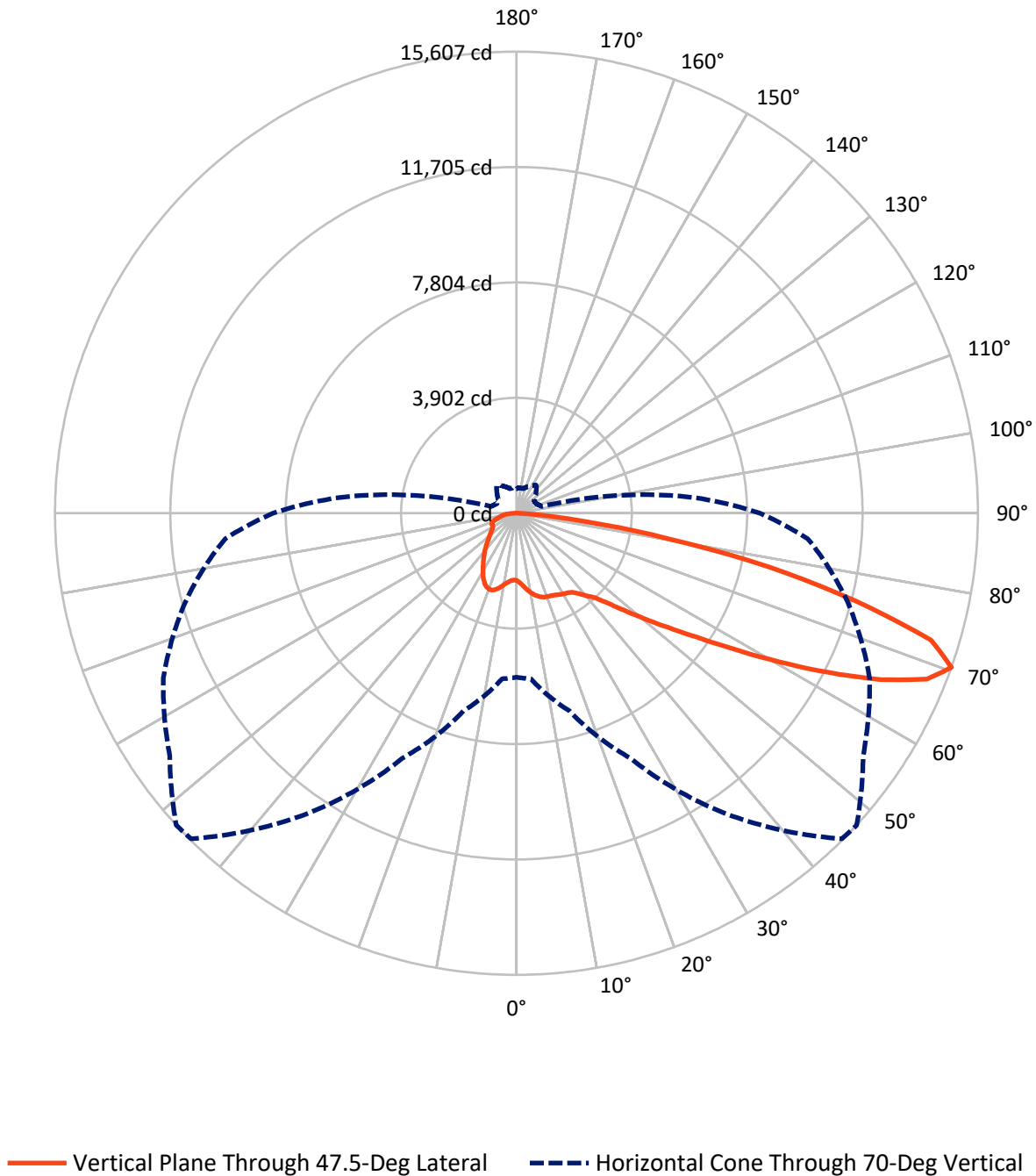


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5130.7	0.0	5130.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17529.3	0.0	17529.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	22660.0	0.0	22660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	1.0
10°-20°	783.9	3.5
20°-30°	1303.6	5.8
30°-40°	1847.7	8.2
40°-50°	2727.6	12.0
50°-60°	4724.2	20.8
60°-70°	6673.1	29.4
70°-80°	3836.1	16.9
80°-90°	529.3	2.3
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°	22660.0	100.0
0°-180°	22660.0	100.0

Coefficient of Utilization



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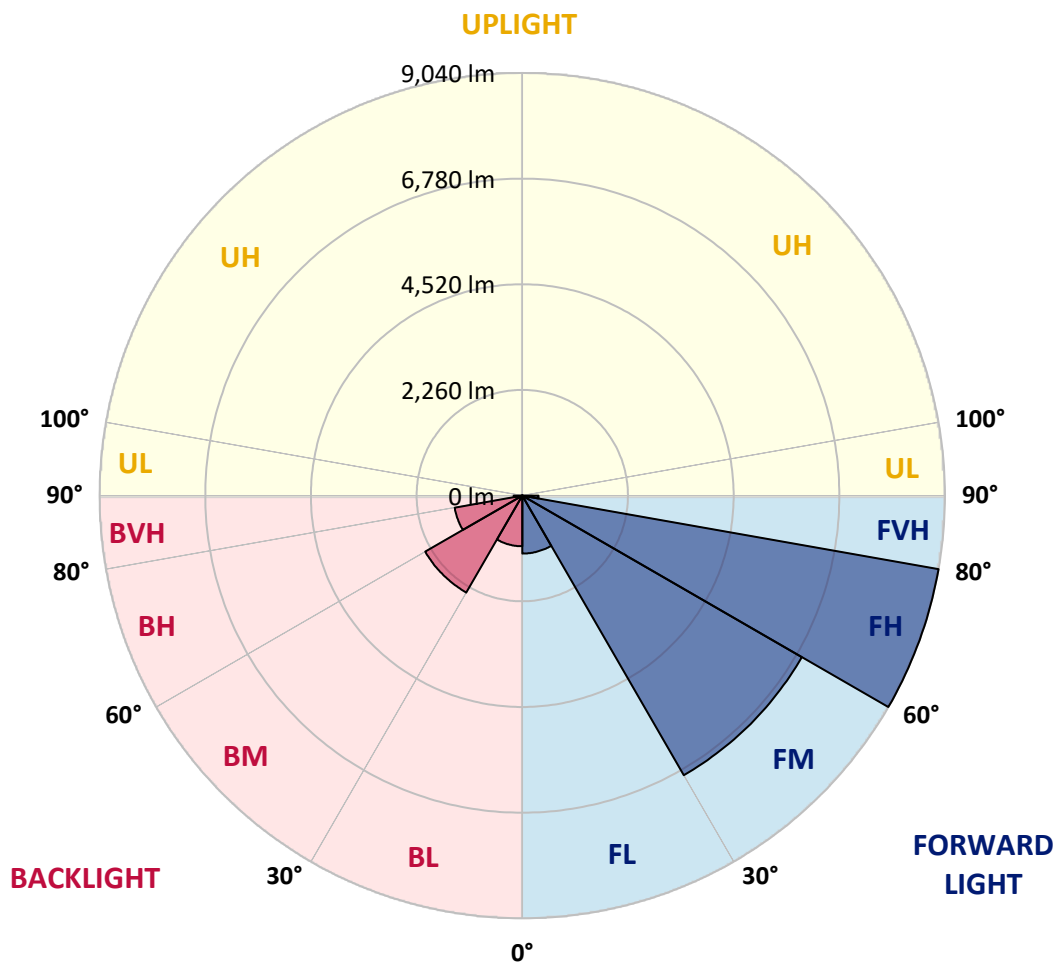
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1239.1	5.5			
FM	(30°-60°)	6904.1	30.5			
FH	(60°-80°)	9040.4	39.9			G4/12000
FVH	(80°-90°)	345.7	1.5			G3/500
BL	(0°-30°)	1082.9	4.8	B3/2500		
BM	(30°-60°)	2395.4	10.6	B2/2500		
BH	(60°-80°)	1468.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	183.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8
2.5°	2421.5	2413.0	2411.8	2393.6	2383.9	2365.7	2358.5	2341.5	2320.9	2300.3	2280.9
5°	2611.9	2611.9	2603.4	2577.9	2537.9	2496.7	2478.5	2445.8	2387.6	2340.3	2300.3
7.5°	2807.1	2809.5	2792.6	2755.0	2698.0	2631.3	2614.3	2565.8	2483.4	2414.2	2354.8
10°	2975.7	2975.7	2952.6	2901.7	2830.2	2757.4	2740.4	2685.9	2593.7	2507.6	2430.0
12.5°	3104.2	3104.2	3073.9	3007.2	2929.6	2864.1	2844.7	2792.6	2706.5	2610.7	2512.5
15°	3187.9	3181.8	3147.8	3072.7	2997.5	2940.5	2927.2	2883.5	2804.7	2707.7	2597.3
17.5°	3191.5	3189.1	3156.3	3093.3	3027.8	2989.0	2980.5	2951.4	2889.6	2797.4	2681.0
20°	3121.2	3126.0	3104.2	3059.3	3027.8	3010.8	3007.2	2997.5	2953.8	2867.7	2751.3
22.5°	3046.0	3054.5	3033.9	3009.6	3007.2	3024.2	3026.6	3029.0	3001.1	2917.5	2810.7
25°	3027.8	3033.9	3013.2	2991.4	3004.8	3049.6	3059.3	3069.0	3047.2	2976.9	2881.1
27.5°	3120.0	3115.1	3075.1	3027.8	3036.3	3096.9	3110.3	3121.2	3110.3	3049.6	2968.4
30°	3380.7	3364.9	3284.9	3146.6	3103.0	3145.4	3158.8	3189.1	3189.1	3144.2	3063.0
32.5°	3817.2	3786.9	3640.2	3368.5	3217.0	3191.5	3204.8	3254.6	3280.0	3244.9	3156.3
35°	4347.1	4315.6	4105.8	3740.8	3425.5	3283.7	3280.0	3335.8	3403.7	3324.9	3209.7
37.5°	4879.4	4846.7	4594.4	4184.6	3729.9	3477.7	3455.8	3475.2	3504.3	3360.0	3283.7
40°	5411.7	5372.9	5152.2	4680.5	4102.1	3734.7	3677.7	3590.4	3578.3	3475.2	3426.7
42.5°	5939.2	5904.0	5792.5	5237.1	4548.4	3985.7	3898.4	3748.1	3794.1	3732.3	3689.9
45°	6471.5	6473.9	6355.1	5861.6	5086.8	4448.9	4331.3	4096.1	4205.2	4182.2	4206.4
47.5°	6943.2	6937.1	6894.7	6467.9	5754.9	5045.5	4894.0	4621.1	4807.9	4892.7	5078.3
50°	7400.3	7396.7	7399.1	7155.4	6530.9	5754.9	5587.5	5301.4	5722.1	6016.8	6349.0
52.5°	8055.1	8075.8	7929.0	7864.8	7474.3	6592.8	6408.5	6112.6	6802.5	7267.0	7915.7
55°	8712.4	8695.4	8580.2	8646.9	8461.4	7584.7	7391.9	7156.6	8005.4	8513.5	9488.4
57.5°	9099.2	9105.2	9222.8	9549.0	9680.0	8821.5	8646.9	8465.0	9357.4	9717.6	10887.7
60°	9447.2	9475.1	9813.4	10429.4	10784.6	10340.8	10185.6	10008.6	10597.9	10741.0	12102.7
62.5°	9556.3	9642.4	10232.9	11154.5	11861.4	12055.4	11862.6	11472.2	11779.0	11723.2	12926.1
65°	9011.9	9129.5	10188.1	11426.1	12823.0	13682.7	13560.2	12835.1	12785.4	12449.5	13060.6
67.5°	7578.6	7696.2	9055.5	10856.2	13220.7	15091.7	14969.2	13829.4	13396.5	12517.4	12042.1
70°	5545.1	5619.1	6919.0	9140.4	12421.6	15564.6	15607.1	14314.5	13178.3	11594.6	9887.3
72.5°	3195.1	3358.8	4269.5	6430.3	10148.0	14369.0	14663.7	13305.6	11798.4	9672.7	6912.9
75°	1373.8	1377.5	1974.1	3546.8	6872.9	11549.8	11834.7	11029.6	9265.3	6688.6	3691.1
77.5°	653.6	665.7	868.2	1583.6	3783.2	7980.0	8748.7	7792.0	5925.9	3213.3	1394.5
80°	424.4	432.9	531.1	785.7	1855.2	4627.2	5163.1	4495.0	2614.3	1148.3	601.4
82.5°	257.1	259.5	355.3	480.2	1021.0	2095.3	2470.0	1951.0	1115.6	687.5	354.1
85°	156.4	157.6	215.8	297.1	619.6	723.9	743.3	737.2	654.8	449.9	189.2
87.5°	75.2	77.6	111.6	140.7	243.7	224.3	212.2	246.2	309.2	242.5	81.2
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°	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8	2274.8
2.5°	2272.4	2268.7	2260.2	2256.6	2254.2	2255.4	2254.2	2254.2	2255.4	2255.4	2255.4
5°	2283.3	2277.2	2263.9	2263.9	2271.2	2288.1	2303.9	2316.0	2329.4	2328.1	2328.1
7.5°	2330.6	2319.7	2303.9	2308.7	2326.9	2353.6	2381.5	2408.2	2434.9	2437.3	2436.1
10°	2399.7	2388.8	2371.8	2377.9	2407.0	2447.0	2482.1	2520.9	2550.0	2558.5	2556.1
12.5°	2478.5	2456.7	2442.1	2459.1	2505.2	2558.5	2592.5	2621.6	2642.2	2654.3	2649.5
15°	2558.5	2537.9	2520.9	2556.1	2611.9	2661.6	2678.6	2683.4	2687.1	2699.2	2696.8
17.5°	2636.1	2608.2	2602.2	2648.3	2701.6	2723.4	2713.7	2693.1	2677.4	2687.1	2685.9
20°	2705.3	2683.4	2681.0	2727.1	2747.7	2727.1	2685.9	2649.5	2621.6	2624.0	2622.8
22.5°	2770.7	2753.8	2756.2	2775.6	2742.8	2672.5	2604.6	2554.9	2524.6	2530.6	2534.3
25°	2843.5	2826.5	2832.6	2801.0	2693.1	2570.7	2472.4	2430.0	2417.9	2430.0	2438.5
27.5°	2938.1	2927.2	2923.5	2802.3	2604.6	2420.3	2308.7	2293.0	2303.9	2330.6	2343.9
30°	3039.9	3039.9	3020.5	2781.6	2483.4	2239.6	2142.6	2145.0	2182.6	2220.2	2233.6
32.5°	3138.1	3158.8	3098.1	2725.9	2326.9	2063.8	1989.8	1992.3	2025.0	2071.1	2083.2
35°	3219.4	3278.8	3164.8	2624.0	2142.6	1915.9	1860.1	1827.4	1828.6	1863.7	1873.4
37.5°	3330.9	3441.3	3203.6	2472.4	1946.2	1789.8	1726.7	1669.7	1632.1	1617.6	1617.6
40°	3525.0	3687.4	3213.3	2248.1	1760.7	1669.7	1580.0	1512.1	1439.3	1373.8	1361.7
42.5°	3853.6	4058.5	3193.9	1989.8	1593.3	1537.5	1450.2	1366.6	1265.9	1173.8	1166.5
45°	4435.6	4541.1	3141.8	1721.9	1444.2	1410.2	1325.3	1234.4	1127.7	1045.2	1039.2
47.5°	5368.1	5218.9	3072.7	1484.2	1308.4	1298.7	1233.2	1127.7	1021.0	964.0	957.9
50°	6729.8	6286.0	3063.0	1312.0	1199.2	1204.1	1150.7	1053.7	960.4	913.1	905.8
52.5°	8369.2	7575.0	3127.2	1190.7	1103.4	1121.6	1095.0	1005.2	922.8	882.8	875.5
55°	9960.1	8734.2	3166.0	1096.2	1013.7	1047.7	1051.3	976.1	900.9	860.9	856.1
57.5°	11251.5	9607.2	2993.8	1010.1	936.1	988.2	1014.9	959.1	890.0	859.7	854.9
60°	12150.0	10019.5	2504.0	933.7	879.1	941.0	1001.6	960.4	916.7	920.3	922.8
62.5°	12436.2	9836.4	1878.3	876.7	840.3	925.2	1023.4	1010.1	965.2	993.1	997.9
65°	11962.1	9079.8	1361.7	831.8	806.4	936.1	1088.9	1046.5	948.2	968.8	968.8
67.5°	10374.8	7822.3	1059.8	790.6	767.6	956.7	1154.4	1042.8	908.2	932.5	910.6
70°	8229.7	6050.8	882.8	744.5	726.3	926.4	1160.4	1005.2	860.9	865.8	824.6
72.5°	5461.4	3978.5	759.1	700.9	663.3	833.0	1110.7	956.7	814.9	787.0	745.7
75°	2676.2	1983.8	662.1	646.3	580.8	725.1	1042.8	910.6	765.1	721.5	698.4
77.5°	1036.8	844.0	565.1	577.2	505.6	639.0	953.1	845.2	699.7	640.2	622.1
80°	503.2	479.0	463.2	481.4	415.9	544.4	870.6	788.2	639.0	573.5	546.9
82.5°	312.8	295.9	355.3	374.7	320.1	497.2	825.8	739.7	562.6	475.3	453.5
85°	158.8	169.8	237.7	255.9	229.2	395.3	680.3	555.4	406.2	337.1	339.5
87.5°	60.6	81.2	124.9	134.6	122.5	208.6	374.7	323.8	260.7	177.0	163.7
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)