

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: P522837

Luminaire Tested: **GALN-SA7A-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522837
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-SA7A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25330 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 215
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



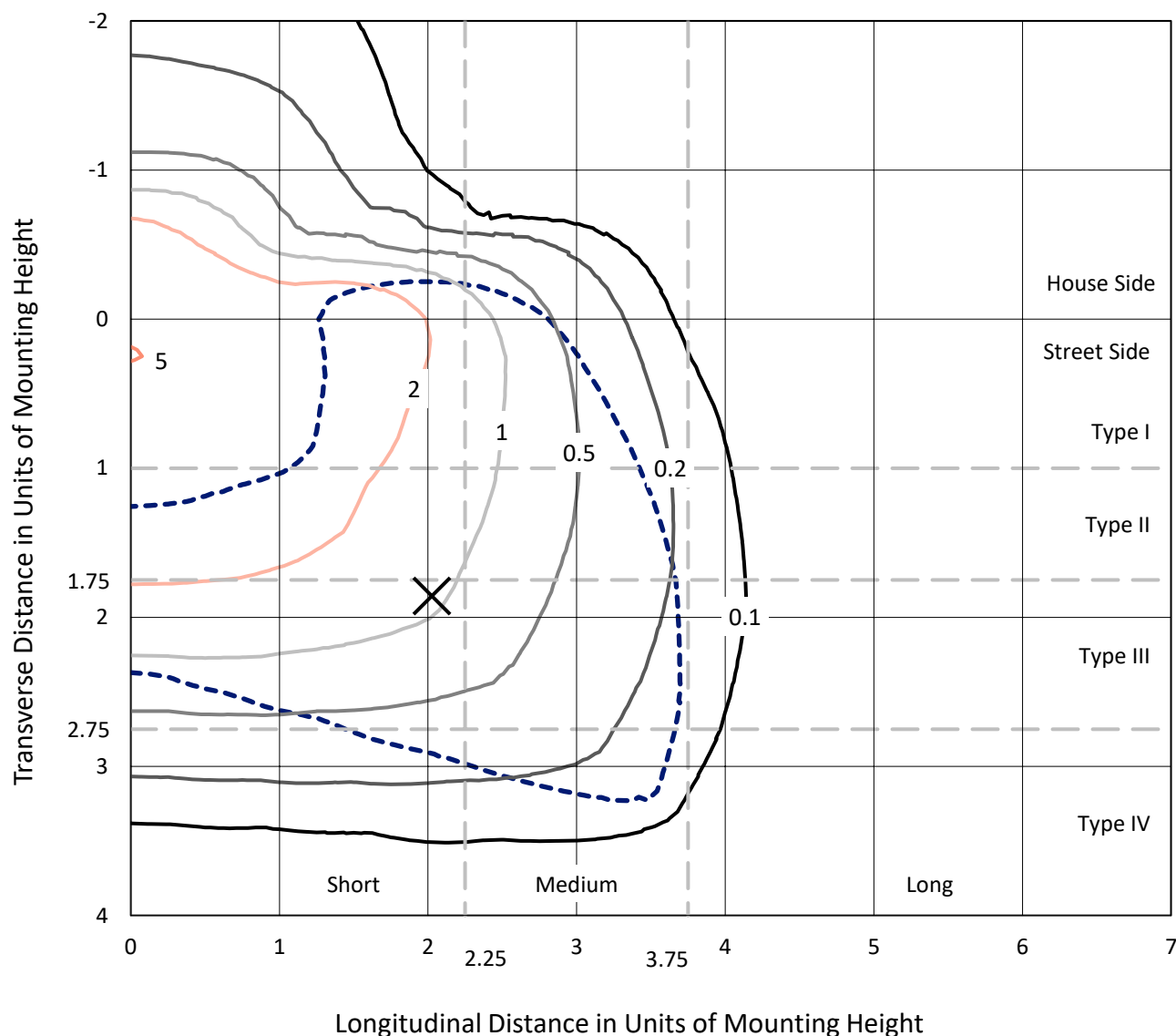
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



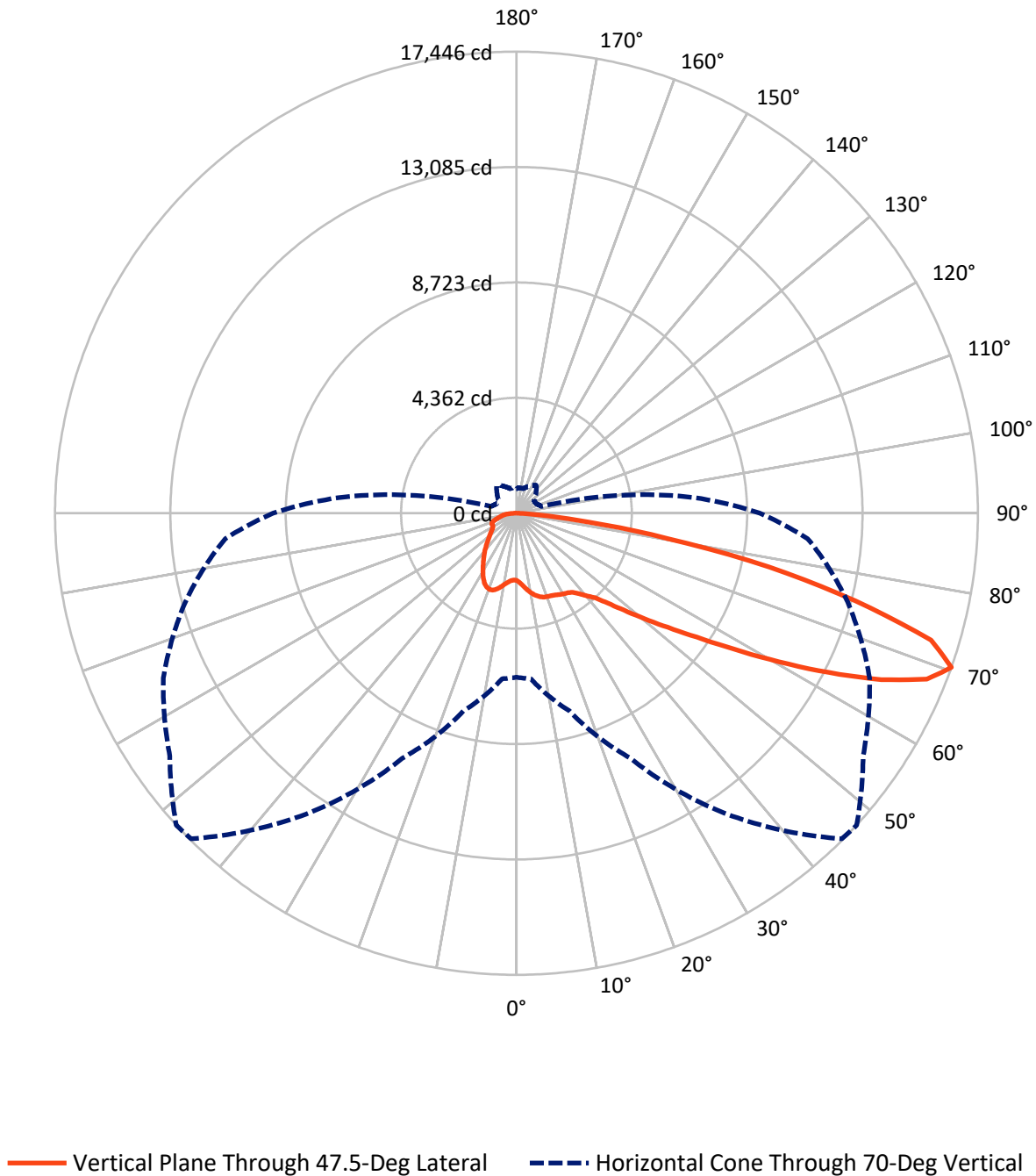
Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

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	5735.2	0.0	5735.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19594.8	0.0	19594.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	25330.0	0.0	25330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	1.0
10°-20°	876.3	3.5
20°-30°	1457.2	5.8
30°-40°	2065.4	8.2
40°-50°	3048.9	12.0
50°-60°	5280.9	20.8
60°-70°	7459.4	29.4
70°-80°	4288.1	16.9
80°-90°	591.6	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°	25330.0	100.0
0°-180°	25330.0	100.0

Coefficient of Utilization



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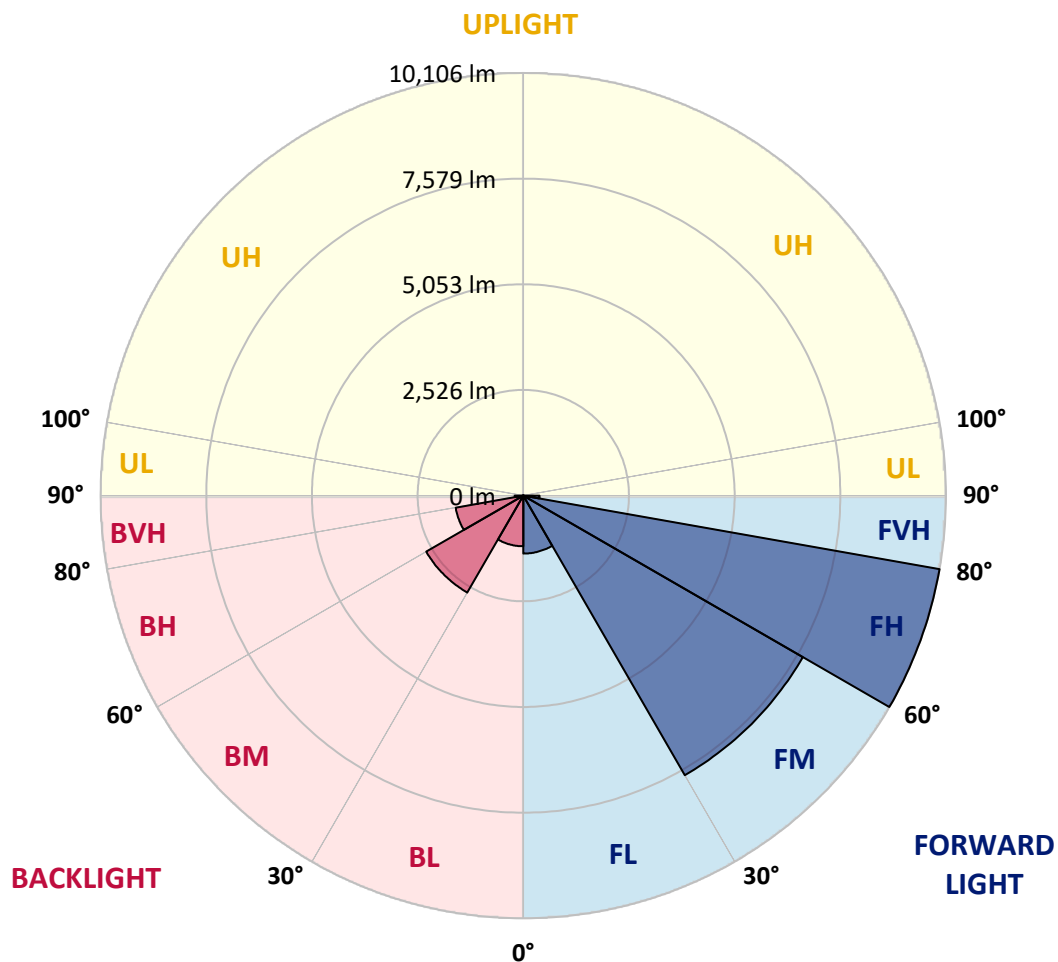
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1385.1	5.5			
FM	(30°-60°)	7717.6	30.5			
FH	(60°-80°)	10105.6	39.9			G4/12000
FVH	(80°-90°)	386.5	1.5			G3/500
BL	(0°-30°)	1210.5	4.8	B3/2500		
BM	(30°-60°)	2677.7	10.6	B3/5000		
BH	(60°-80°)	1641.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	205.2	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°	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8
2.5°	2706.8	2697.3	2696.0	2675.7	2664.8	2644.5	2636.4	2617.4	2594.3	2571.3	2549.6
5°	2919.6	2919.6	2910.2	2881.7	2837.0	2790.9	2770.5	2733.9	2668.9	2616.0	2571.3
7.5°	3137.9	3140.6	3121.6	3079.6	3015.9	2941.3	2922.4	2868.1	2776.0	2698.7	2632.3
10°	3326.3	3326.3	3300.5	3243.6	3163.6	3082.3	3063.3	3002.3	2899.3	2803.1	2716.3
12.5°	3470.0	3470.0	3436.1	3361.5	3274.8	3201.6	3179.9	3121.6	3025.4	2918.3	2808.5
15°	3563.5	3556.7	3518.8	3434.7	3350.7	3287.0	3272.1	3223.3	3135.2	3026.7	2903.4
17.5°	3567.5	3564.8	3528.2	3457.8	3384.6	3341.2	3331.7	3299.2	3230.0	3127.0	2996.9
20°	3488.9	3494.4	3470.0	3419.8	3384.6	3365.6	3361.5	3350.7	3301.9	3205.6	3075.5
22.5°	3404.9	3414.4	3391.3	3364.2	3361.5	3380.5	3383.2	3385.9	3354.7	3261.2	3141.9
25°	3384.6	3391.3	3368.3	3343.9	3358.8	3409.0	3419.8	3430.6	3406.2	3327.6	3220.6
27.5°	3487.6	3482.2	3437.4	3384.6	3394.1	3461.8	3476.7	3488.9	3476.7	3409.0	3318.1
30°	3779.0	3761.4	3671.9	3517.4	3468.6	3516.0	3531.0	3564.8	3564.8	3514.7	3423.9
32.5°	4267.0	4233.1	4069.1	3765.4	3596.0	3567.5	3582.5	3638.0	3666.5	3627.2	3528.2
35°	4859.3	4824.1	4589.6	4181.6	3829.2	3670.6	3666.5	3728.8	3804.8	3716.6	3587.9
37.5°	5454.3	5417.7	5135.8	4677.7	4169.4	3887.4	3863.0	3884.7	3917.3	3756.0	3670.6
40°	6049.4	6006.0	5759.3	5232.0	4585.5	4174.8	4111.1	4013.5	3999.9	3884.7	3830.5
42.5°	6639.0	6599.7	6475.0	5854.2	5084.3	4455.4	4357.8	4189.7	4241.2	4172.1	4124.6
45°	7234.0	7236.8	7103.9	6552.3	5686.1	4973.2	4841.7	4578.7	4700.7	4675.0	4702.1
47.5°	7761.3	7754.5	7707.1	7230.0	6433.0	5640.0	5470.6	5165.6	5374.4	5469.2	5676.6
50°	8272.3	8268.3	8271.0	7998.5	7300.5	6433.0	6245.9	5926.0	6396.4	6725.8	7097.1
52.5°	9004.3	9027.3	8863.3	8791.5	8355.0	7369.6	7163.6	6832.8	7604.1	8123.2	8848.4
55°	9738.9	9719.9	9591.2	9665.7	9458.3	8478.3	8262.8	7999.9	8948.7	9516.6	10606.4
57.5°	10171.3	10178.1	10309.6	10674.2	10820.6	9860.9	9665.7	9462.4	10460.0	10862.6	12170.6
60°	10560.3	10591.5	10969.7	11658.2	12055.4	11559.3	11385.8	11187.9	11846.6	12006.6	13528.8
62.5°	10682.3	10778.6	11438.7	12468.8	13259.0	13475.9	13260.4	12823.9	13166.9	13104.5	14449.1
65°	10073.7	10205.2	11388.5	12772.4	14333.9	15294.9	15158.0	14347.5	14291.9	13916.4	14599.6
67.5°	8471.6	8603.1	10122.5	12135.4	14778.5	16870.0	16733.1	15458.9	14975.0	13992.3	13461.0
70°	6198.5	6281.2	7734.2	10217.4	13885.2	17398.6	17446.0	16001.1	14731.0	12960.8	11052.4
72.5°	3571.6	3754.6	4772.5	7188.0	11343.8	16062.1	16391.5	14873.4	13188.5	10812.4	7727.4
75°	1535.7	1539.8	2206.7	3964.7	7682.7	12910.7	13229.2	12329.2	10357.0	7476.7	4126.0
77.5°	730.6	744.1	970.5	1770.2	4229.0	8920.2	9779.6	8710.1	6624.1	3591.9	1558.8
80°	474.4	483.9	593.7	878.3	2073.8	5172.4	5771.5	5024.7	2922.4	1283.6	672.3
82.5°	287.4	290.1	397.1	536.8	1141.3	2342.2	2761.1	2180.9	1247.0	768.5	395.8
85°	174.9	176.2	241.3	332.1	692.6	809.2	830.9	824.1	731.9	502.9	211.5
87.5°	84.0	86.7	124.7	157.2	272.4	250.8	237.2	275.2	345.6	271.1	90.8
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°	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8	2542.8
2.5°	2540.1	2536.0	2526.6	2522.5	2519.8	2521.1	2519.8	2519.8	2521.1	2521.1	2521.1
5°	2552.3	2545.5	2530.6	2530.6	2538.8	2557.7	2575.4	2588.9	2603.8	2602.5	2602.5
7.5°	2605.2	2593.0	2575.4	2580.8	2601.1	2630.9	2662.1	2691.9	2721.7	2724.5	2723.1
10°	2682.4	2670.2	2651.3	2658.0	2690.6	2735.3	2774.6	2818.0	2850.5	2860.0	2857.3
12.5°	2770.5	2746.1	2729.9	2748.9	2800.4	2860.0	2898.0	2930.5	2953.5	2967.1	2961.7
15°	2860.0	2837.0	2818.0	2857.3	2919.6	2975.2	2994.2	2999.6	3003.7	3017.2	3014.5
17.5°	2946.8	2915.6	2908.8	2960.3	3019.9	3044.3	3033.5	3010.5	2992.8	3003.7	3002.3
20°	3024.0	2999.6	2996.9	3048.4	3071.5	3048.4	3002.3	2961.7	2930.5	2933.2	2931.8
22.5°	3097.2	3078.2	3080.9	3102.6	3066.0	2987.4	2911.5	2855.9	2822.1	2828.8	2832.9
25°	3178.5	3159.6	3166.3	3131.1	3010.5	2873.6	2763.8	2716.3	2702.8	2716.3	2725.8
27.5°	3284.3	3272.1	3268.0	3132.4	2911.5	2705.5	2580.8	2563.2	2575.4	2605.2	2620.1
30°	3398.1	3398.1	3376.4	3109.4	2776.0	2503.5	2395.1	2397.8	2439.8	2481.8	2496.7
32.5°	3507.9	3531.0	3463.2	3047.1	2601.1	2307.0	2224.3	2227.0	2263.6	2315.1	2328.7
35°	3598.7	3665.1	3537.7	2933.2	2395.1	2141.6	2079.3	2042.7	2044.0	2083.3	2094.2
37.5°	3723.4	3846.8	3581.1	2763.8	2175.5	2000.6	1930.2	1866.5	1824.4	1808.2	1808.2
40°	3940.3	4121.9	3591.9	2513.0	1968.1	1866.5	1766.2	1690.2	1608.9	1535.7	1522.2
42.5°	4307.6	4536.7	3570.3	2224.3	1781.1	1718.7	1621.1	1527.6	1415.1	1312.1	1303.9
45°	4958.2	5076.2	3512.0	1924.7	1614.3	1576.4	1481.5	1379.8	1260.6	1168.4	1161.6
47.5°	6000.6	5833.9	3434.7	1659.1	1462.5	1451.7	1378.5	1260.6	1141.3	1077.6	1070.8
50°	7522.8	7026.7	3423.9	1466.6	1340.5	1346.0	1286.3	1177.9	1073.5	1020.7	1012.5
52.5°	9355.3	8467.5	3495.7	1331.1	1233.5	1253.8	1224.0	1123.7	1031.5	986.8	978.6
55°	11133.7	9763.3	3539.1	1225.3	1133.2	1171.1	1175.2	1091.1	1007.1	962.4	956.9
57.5°	12577.2	10739.2	3346.6	1129.1	1046.4	1104.7	1134.5	1072.2	994.9	961.0	955.6
60°	13581.6	11200.1	2799.0	1043.7	982.7	1051.8	1119.6	1073.5	1024.7	1028.8	1031.5
62.5°	13901.5	10995.4	2099.6	980.0	939.3	1034.2	1144.0	1129.1	1078.9	1110.1	1115.5
65°	13371.5	10149.6	1522.2	929.8	901.4	1046.4	1217.2	1169.8	1060.0	1083.0	1083.0
67.5°	11597.2	8744.0	1184.7	883.8	858.0	1069.5	1290.4	1165.7	1015.2	1042.3	1017.9
70°	9199.5	6763.7	986.8	832.2	811.9	1035.6	1297.2	1123.7	962.4	967.8	921.7
72.5°	6105.0	4447.2	848.5	783.5	741.4	931.2	1241.6	1069.5	910.9	879.7	833.6
75°	2991.5	2217.5	740.1	722.5	649.3	810.6	1165.7	1017.9	855.3	806.5	780.7
77.5°	1158.9	943.4	631.6	645.2	565.2	714.3	1065.4	944.7	782.1	715.7	695.3
80°	562.5	535.4	517.8	538.1	464.9	608.6	973.2	881.0	714.3	641.1	611.3
82.5°	349.7	330.7	397.1	418.8	357.8	555.7	923.1	826.8	628.9	531.3	506.9
85°	177.6	189.8	265.7	286.0	256.2	441.9	760.4	620.8	454.1	376.8	379.5
87.5°	67.8	90.8	139.6	150.5	136.9	233.1	418.8	361.9	291.4	197.9	183.0
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)