

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: P648399

Luminaire Tested: **GALN-SA4B-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10719.3 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

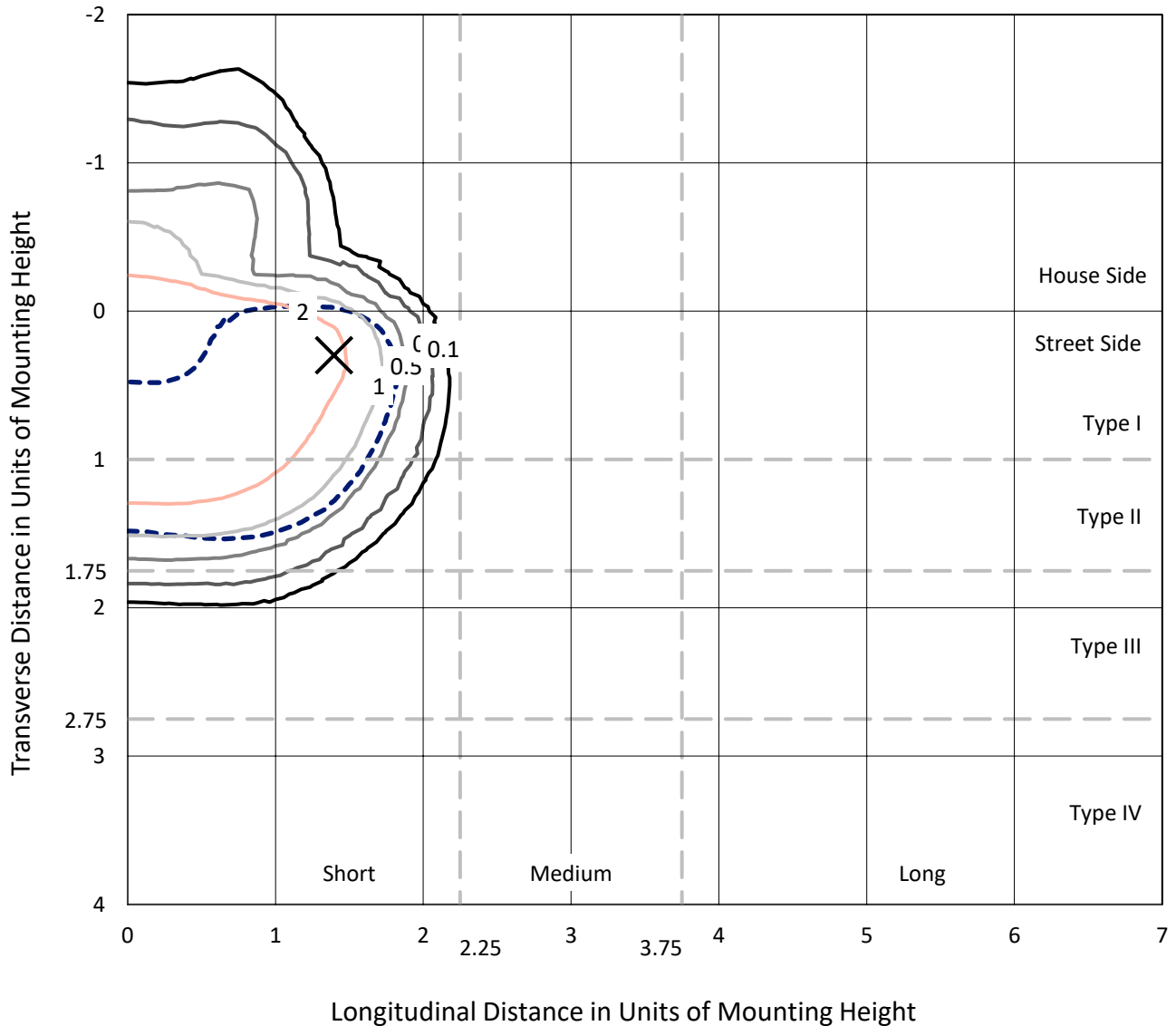
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

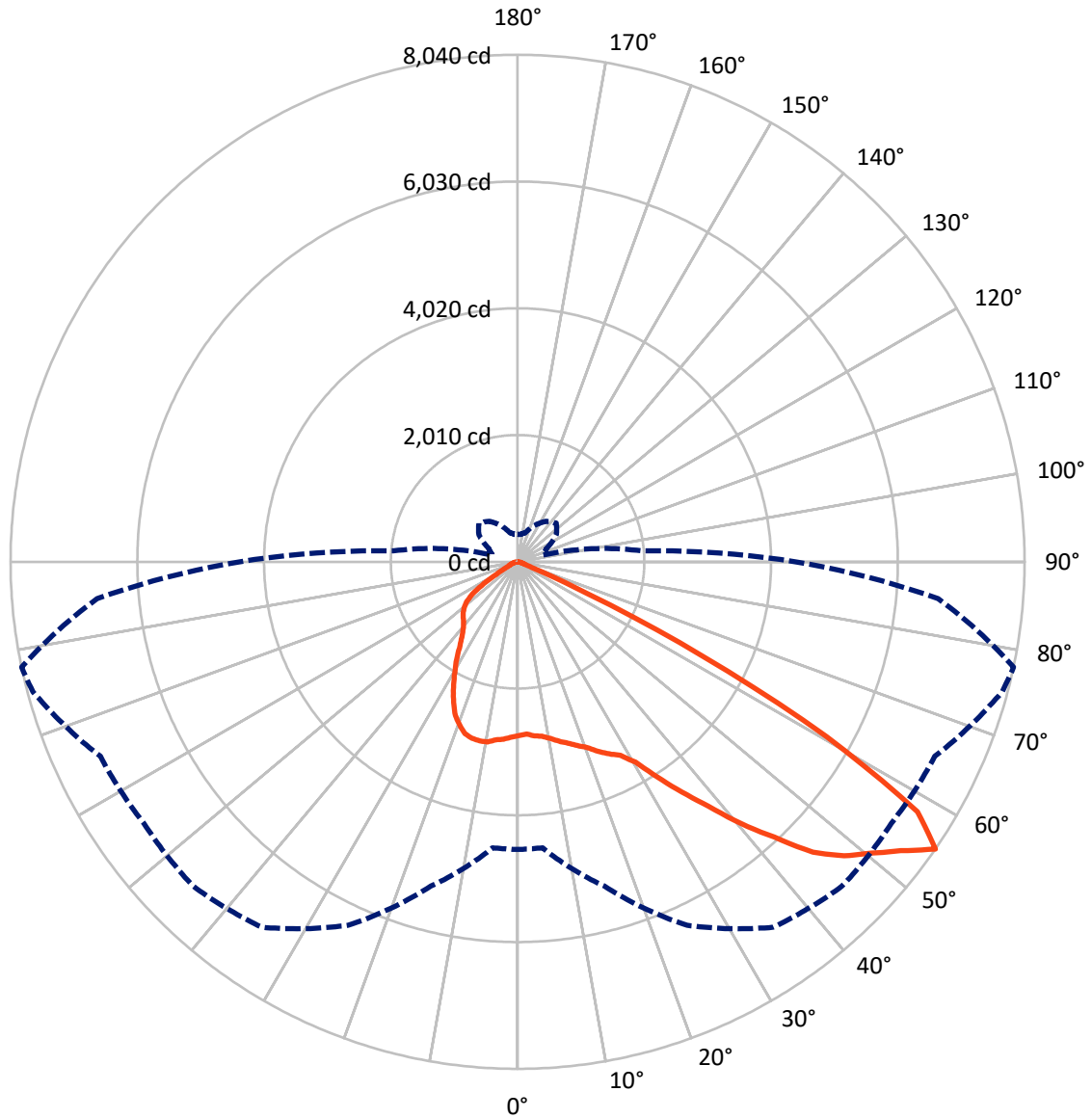
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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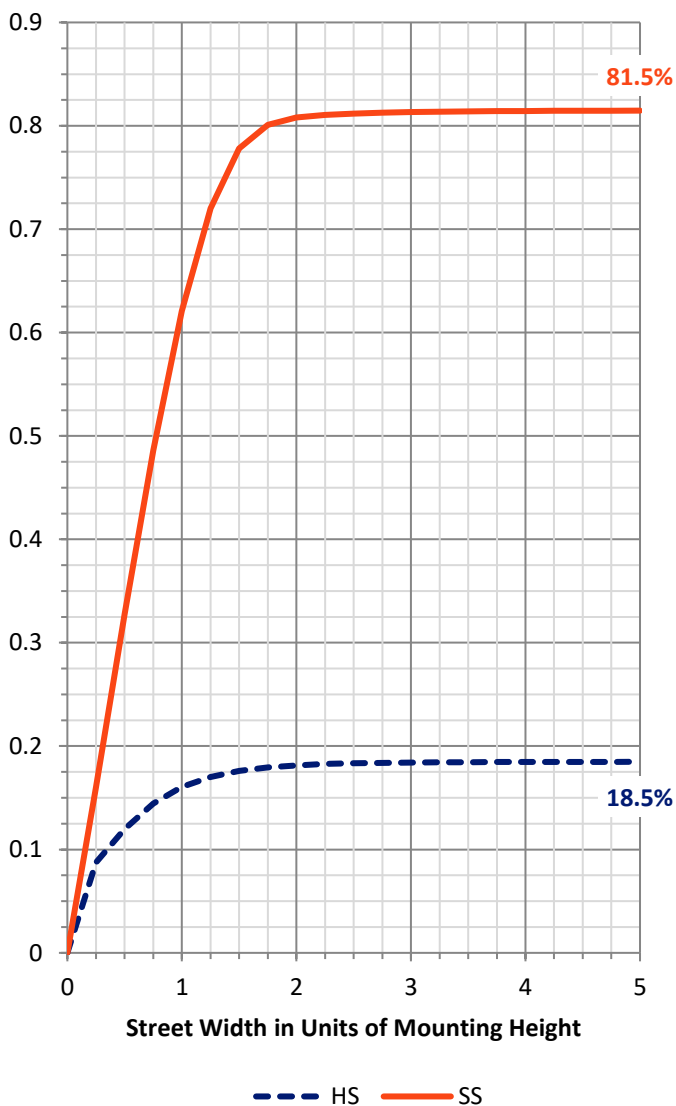
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1991.0	0.0	1991.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8728.3	0.0	8728.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	10719.3	0.0	10719.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	2.3
10°-20°	650.4	6.1
20°-30°	1140.0	10.6
30°-40°	1879.7	17.5
40°-50°	2735.1	25.5
50°-60°	3099.2	28.9
60°-70°	886.1	8.3
70°-80°	68.8	0.6
80°-90°	14.3	0.1
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°	10719.3	100.0
0°-180°	10719.3	100.0

Coefficient of Utilization



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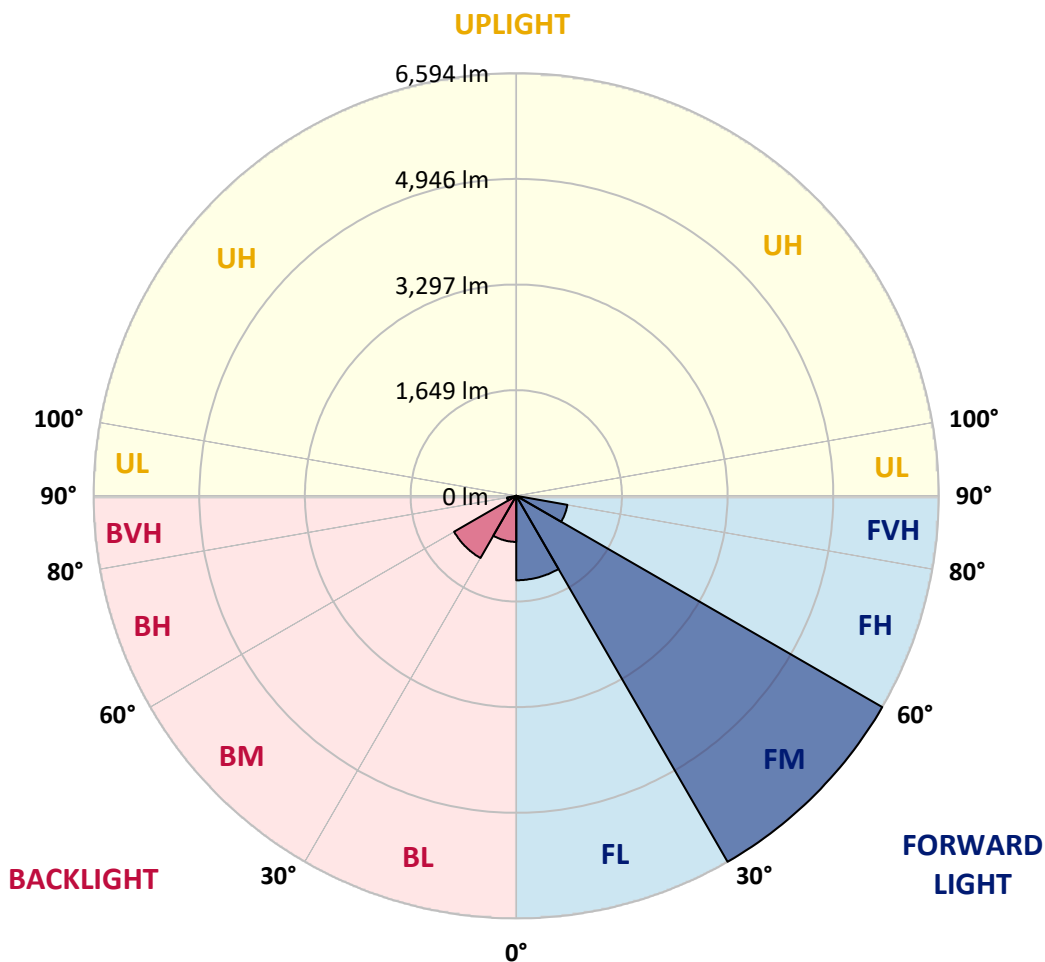
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.7	12.3			
FM (30°-60°)	6594.0	61.5			
FH (60°-80°)	809.6	7.6			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	718.4	6.7	B2/1000		
BM (30°-60°)	1120.0	10.4	B2/2500		
BH (60°-80°)	145.3	1.4	B1/500		G1/500
BVH (80°-90°)	7.3	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°	55°	65°	75°	78°	85°
0°	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9
2.5°	2591.1	2616.0	2619.8	2650.5	2648.6	2700.3	2715.7	2717.6	2752.1	2734.9	2778.9
5°	2518.3	2504.9	2499.1	2552.8	2568.1	2614.1	2652.4	2675.4	2746.4	2771.3	2817.2
7.5°	2453.1	2453.1	2457.0	2504.9	2499.1	2558.5	2598.8	2669.7	2773.2	2794.3	2849.8
10°	2389.9	2366.9	2395.7	2445.5	2487.6	2514.4	2598.8	2665.9	2786.6	2847.9	2924.6
12.5°	2357.3	2368.8	2372.6	2409.1	2455.0	2535.5	2581.6	2692.7	2882.5	2918.9	3001.2
15°	2562.4	2539.3	2483.8	2451.2	2489.5	2527.8	2642.9	2755.9	2932.3	2984.0	3076.0
17.5°	2800.0	2780.8	2734.9	2646.7	2560.4	2631.3	2721.4	2824.9	2985.9	3062.5	3198.6
20°	3110.5	3079.9	3033.8	2861.3	2786.6	2710.0	2805.7	2928.4	3074.1	3143.0	3283.0
22.5°	3480.4	3480.4	3376.8	3167.9	3012.7	2939.9	2980.2	3051.0	3171.8	3265.7	3403.7
25°	3865.6	3854.1	3760.2	3543.6	3281.1	3194.8	3240.8	3290.6	3323.2	3375.0	3467.0
27.5°	4306.3	4239.3	4120.5	3880.9	3649.0	3482.3	3532.1	3488.0	3447.8	3474.6	3606.9
30°	4605.4	4647.5	4496.1	4266.1	4047.6	3861.8	3871.3	3833.0	3649.0	3687.4	3765.9
32.5°	4915.8	4942.7	4858.4	4731.8	4513.4	4296.8	4218.3	4185.6	4047.6	4064.9	3988.2
35°	5174.5	5226.3	5151.6	5096.0	5032.7	4858.4	4641.8	4747.2	4524.9	4482.7	4283.4
37.5°	5412.2	5396.9	5485.0	5427.5	5414.1	5291.4	5053.8	5074.9	4925.4	4915.8	4685.9
40°	5624.9	5628.8	5749.5	5776.3	5722.7	5504.2	5159.2	5326.0	5446.7	5458.2	5163.0
42.5°	5801.2	5853.0	5956.5	6173.1	6092.5	5728.4	5268.5	5450.5	5899.0	5969.9	5615.4
45°	5954.6	6060.0	6188.4	6381.9	6336.0	6046.6	5540.6	5707.4	6381.9	6567.9	6040.8
47.5°	5964.2	6102.2	6242.1	6529.5	6587.0	6217.1	5822.3	6113.7	6765.3	6966.5	6351.3
50°	5925.8	5998.6	6278.5	6590.8	6721.2	6495.1	6217.1	6454.8	7137.0	7263.6	6508.5
52.5°	5471.6	5527.2	6088.8	6648.4	6962.7	6809.4	6740.4	6930.1	7516.5	7610.4	6656.0
55°	4561.3	4551.7	5324.0	6359.0	7073.8	7275.0	7232.9	7300.0	7955.4	8039.8	6692.5
57.5°	3120.1	3294.5	3961.4	5295.3	6393.4	7165.8	7209.9	7098.8	7443.7	7476.2	5833.8
60°	1682.7	1755.5	2292.2	3534.0	4867.9	5839.6	5954.6	5753.3	5726.5	5634.5	4164.5
62.5°	668.8	705.2	1010.0	1749.8	2652.4	3549.3	3796.6	3714.2	3537.8	3296.4	2156.1
65°	318.1	341.2	502.1	818.3	1176.8	1479.6	1726.7	1803.4	1330.1	1197.8	711.0
67.5°	216.6	233.8	366.1	467.6	419.7	438.9	571.1	530.9	312.4	266.4	197.4
70°	164.8	176.3	293.2	318.1	187.8	132.2	147.6	138.0	128.4	130.3	128.4
72.5°	116.9	126.5	214.6	187.8	82.4	61.3	78.6	93.9	93.9	93.9	92.0
75°	70.9	80.5	124.6	72.8	32.6	32.6	49.8	63.3	67.1	69.0	65.1
77.5°	36.4	46.0	42.1	21.1	21.1	24.9	36.4	44.1	47.9	47.9	46.0
80°	7.7	7.7	7.7	11.5	21.1	26.9	36.4	40.2	46.0	46.0	42.1
82.5°	0.0	1.9	5.7	11.5	19.2	24.9	34.5	40.2	46.0	47.9	44.1
85°	0.0	1.9	3.8	7.7	13.4	15.3	13.4	11.5	11.5	11.5	11.5
87.5°	0.0	0.0	1.9	1.9	1.9	3.8	3.8	3.8	3.8	3.8	3.8
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°	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9
2.5°	2782.8	2788.5	2778.9	2777.0	2769.3	2792.3	2736.7	2723.4	2757.9	2725.2	2732.9
5°	2819.2	2832.6	2815.4	2786.6	2744.4	2679.3	2623.7	2550.9	2516.4	2491.4	2487.6
7.5°	2846.0	2855.6	2838.4	2746.4	2619.8	2455.0	2332.4	2242.3	2171.4	2150.4	2115.8
10°	2955.3	2957.2	2870.9	2667.8	2420.6	2204.0	2016.1	1878.2	1807.2	1763.2	1744.1
12.5°	3028.1	3024.3	2849.8	2512.6	2182.9	1895.4	1680.8	1514.0	1448.9	1427.8	1414.4
15°	3120.1	3099.0	2800.0	2353.5	1876.2	1565.8	1372.2	1257.3	1251.5	1238.1	1251.5
17.5°	3192.9	3133.5	2727.2	2064.1	1583.1	1289.8	1163.3	1171.0	1186.3	1199.7	1201.7
20°	3311.7	3189.1	2560.4	1811.1	1310.9	1105.8	1103.9	1138.4	1176.8	1192.0	1207.4
22.5°	3401.8	3212.0	2382.2	1540.9	1088.6	1031.1	1063.6	1115.4	1144.1	1159.5	1182.5
25°	3434.4	3148.8	2144.6	1270.7	981.3	996.6	1046.4	1080.9	1117.3	1134.6	1125.0
27.5°	3467.0	3116.3	1861.0	1046.4	923.8	973.6	1015.7	1050.2	1061.7	1084.8	1100.0
30°	3545.5	3003.2	1606.0	904.6	895.0	958.2	988.9	1000.4	1031.1	1044.5	1044.5
32.5°	3608.8	2959.1	1335.8	837.5	891.2	965.9	969.7	969.7	973.6	964.0	960.2
35°	3739.1	2807.7	1094.3	797.3	889.3	967.9	977.4	944.8	856.7	822.2	812.6
37.5°	3900.0	2710.0	916.1	787.7	902.6	990.8	1006.2	883.5	768.5	712.9	703.4
40°	4095.6	2640.9	799.2	783.9	933.3	1044.5	998.5	835.6	686.1	605.7	601.8
42.5°	4323.6	2577.7	720.6	781.9	971.7	1100.0	990.8	795.4	601.8	548.1	555.8
45°	4505.7	2543.2	667.0	768.5	985.1	1132.7	996.6	724.4	567.3	532.8	536.6
47.5°	4647.5	2470.4	622.9	745.5	983.1	1144.1	944.8	695.7	550.1	559.6	569.2
50°	4651.3	2372.6	567.3	695.7	954.4	1123.1	885.4	668.8	546.2	586.5	605.7
52.5°	4599.6	2234.6	507.9	624.8	887.4	1050.2	831.8	657.3	528.9	525.2	548.1
55°	4415.7	1975.9	408.2	506.0	749.3	866.2	783.9	636.3	477.2	433.2	437.0
57.5°	3568.5	1416.3	300.9	362.2	530.9	634.4	707.2	626.7	429.3	367.9	369.9
60°	2209.7	803.0	220.4	247.2	327.7	385.2	573.0	582.6	383.3	310.5	306.6
62.5°	1134.6	396.7	170.5	174.4	201.2	226.1	392.9	488.7	346.9	295.1	295.1
65°	379.4	195.5	149.5	134.1	134.1	139.9	237.6	339.2	293.2	247.2	247.2
67.5°	162.9	145.6	130.3	116.9	107.3	101.6	134.1	197.4	218.5	187.8	180.2
70°	126.5	122.6	113.1	97.7	84.3	76.7	78.6	101.6	124.6	120.7	116.9
72.5°	93.9	93.9	90.0	76.7	65.1	55.6	51.8	53.6	59.4	61.3	63.3
75°	65.1	67.1	67.1	59.4	47.9	40.2	34.5	28.7	23.0	19.2	17.2
77.5°	44.1	46.0	49.8	44.1	36.4	26.9	21.1	15.3	9.6	3.8	3.8
80°	38.4	44.1	47.9	44.1	38.4	28.7	21.1	11.5	5.7	0.0	0.0
82.5°	40.2	44.1	49.8	42.1	36.4	26.9	21.1	13.4	5.7	1.9	0.0
85°	9.6	9.6	11.5	13.4	17.2	19.2	15.3	9.6	5.7	1.9	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	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)