

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: P650735

Luminaire Tested: **GALN-SA2C-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10077.7 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

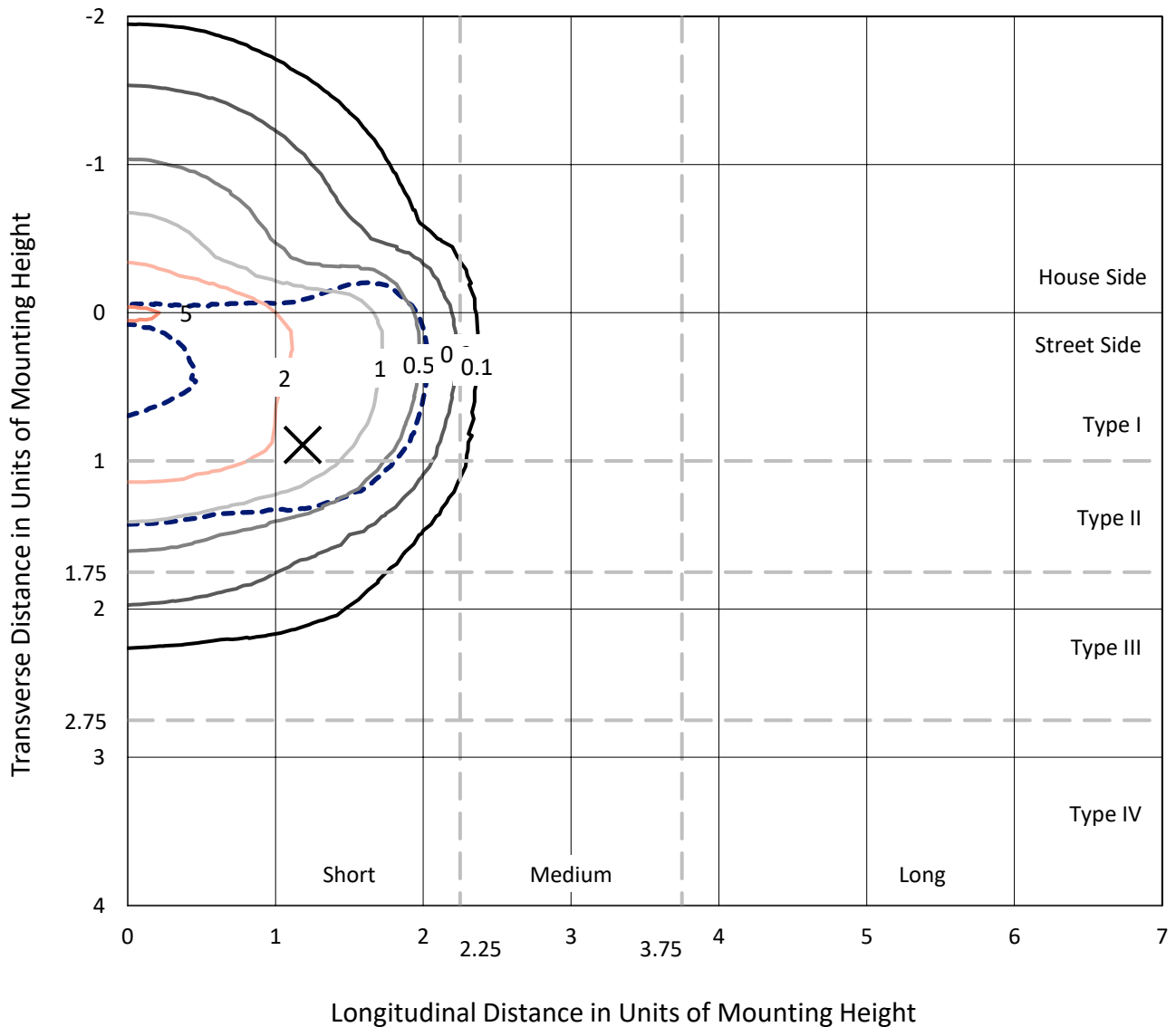
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

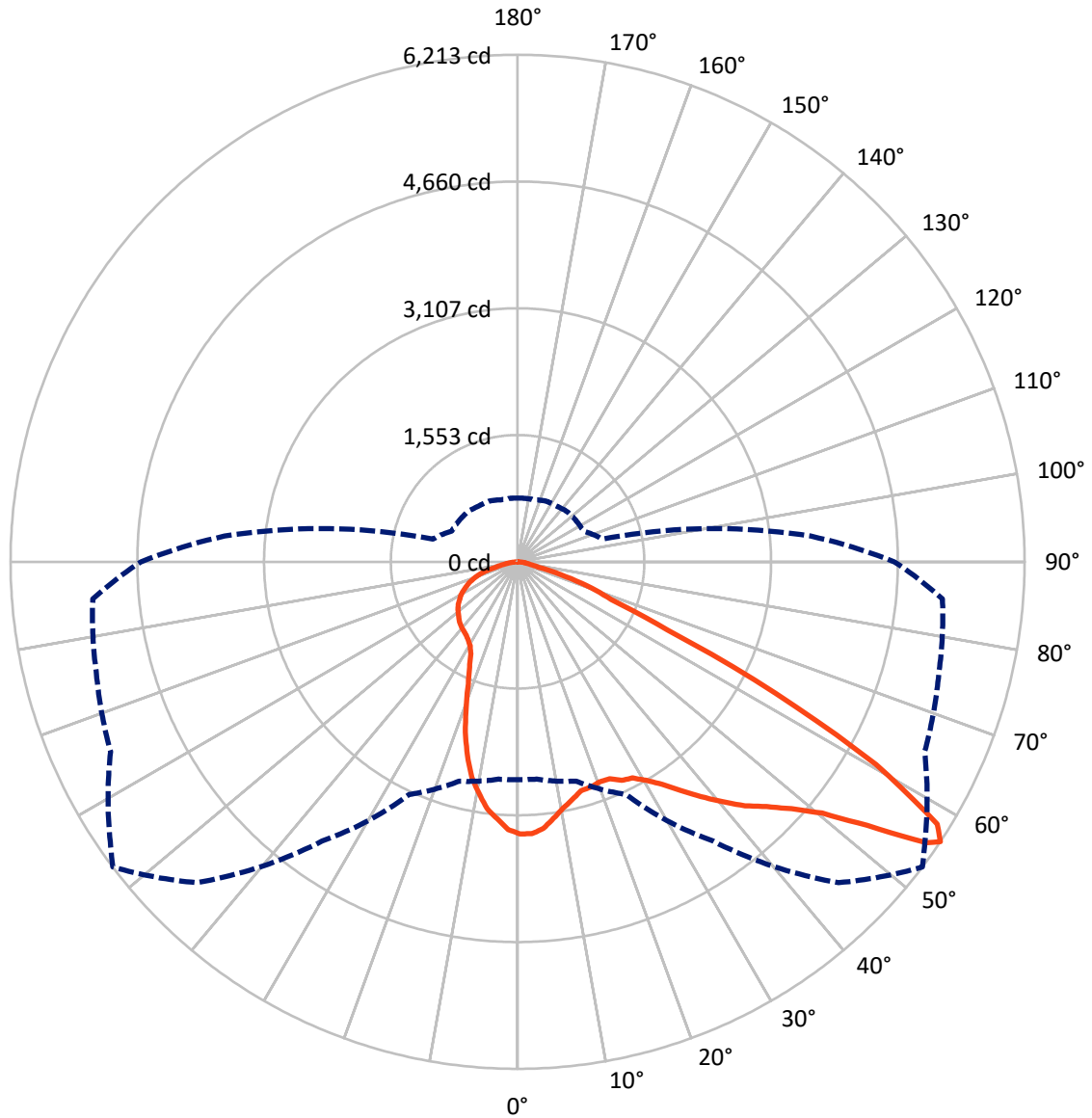
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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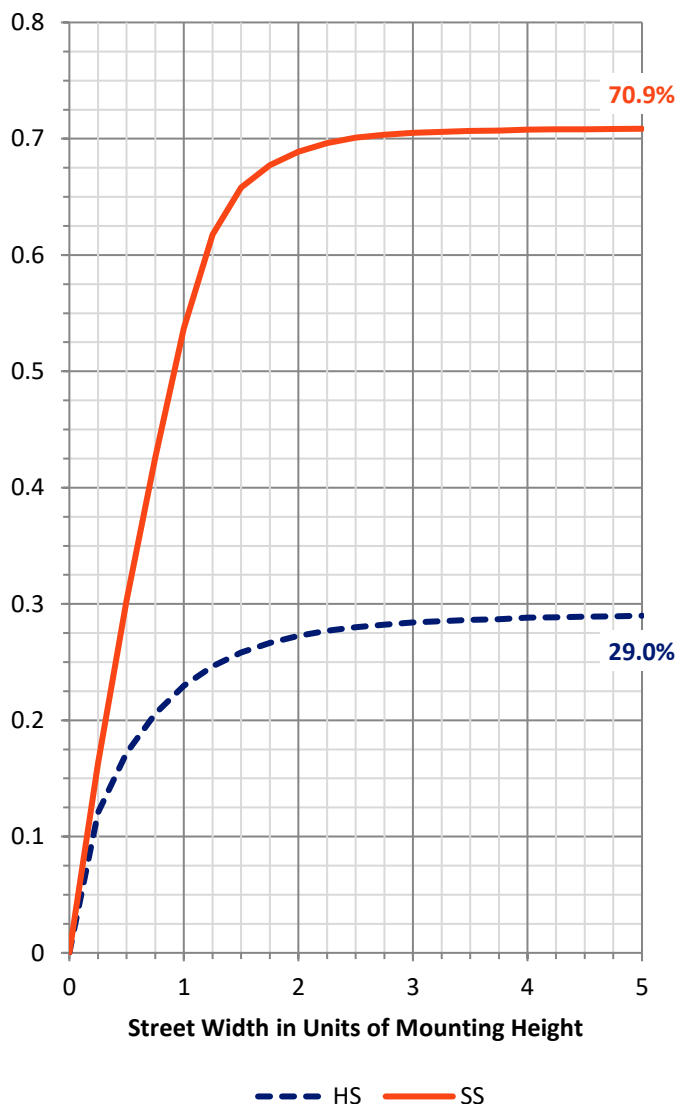
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2940.9	0.0	2940.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	7136.8	0.0	7136.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	10077.7	0.0	10077.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	2.9
10°-20°	737.2	7.3
20°-30°	1087.1	10.8
30°-40°	1553.2	15.4
40°-50°	2137.7	21.2
50°-60°	2526.2	25.1
60°-70°	1346.3	13.4
70°-80°	341.5	3.4
80°-90°	53.3	0.5
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°	10077.7	100.0
0°-180°	10077.7	100.0

Coefficient of Utilization

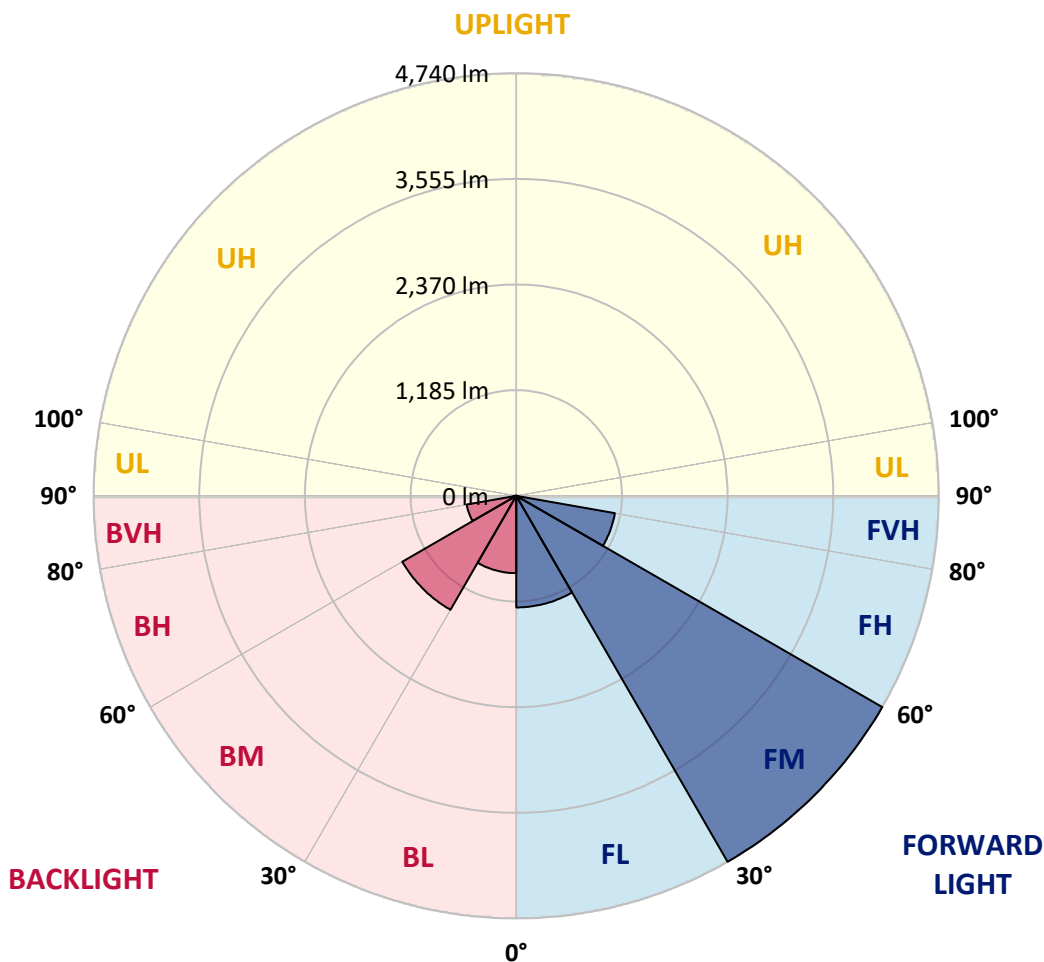


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.0	12.4			
FM (30°-60°)	4740.4	47.0			
FH (60°-80°)	1123.0	11.1			G1/1800
FVH (80°-90°)	21.4	0.2			G1/100
BL (0°-30°)	867.4	8.6	B2/1000		
BM (30°-60°)	1476.8	14.7	B2/2500		
BH (60°-80°)	564.8	5.6	B2/1000		G2/1000
BVH (80°-90°)	31.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1
2.5°	3292.8	3264.3	3281.1	3274.6	3327.7	3343.1	3335.4	3341.9	3371.6	3357.4	3327.7
5°	3076.8	3116.9	3124.7	3144.1	3175.1	3235.8	3283.7	3296.6	3310.8	3376.8	3370.3
7.5°	2880.3	2907.5	2893.3	2950.1	3017.3	3115.7	3173.8	3184.1	3314.7	3350.9	3378.0
10°	2756.2	2729.0	2793.7	2809.2	2885.5	2998.0	3067.8	3110.4	3229.4	3372.9	3389.7
12.5°	2641.2	2632.1	2670.9	2714.8	2800.2	2916.5	2987.7	3004.5	3188.0	3339.3	3418.2
15°	2555.9	2545.5	2584.3	2616.6	2716.2	2819.5	2910.0	2957.9	3142.7	3319.8	3393.6
17.5°	2488.6	2487.3	2509.3	2567.5	2669.6	2756.2	2902.3	2904.9	3119.5	3349.6	3414.3
20°	2484.7	2483.5	2487.3	2551.9	2645.0	2751.1	2877.7	2901.0	3119.5	3328.9	3415.6
22.5°	2517.0	2496.3	2519.6	2561.0	2628.2	2760.1	2886.8	2938.5	3194.5	3431.0	3473.8
25°	2568.8	2574.0	2586.8	2601.1	2639.9	2780.8	2967.0	3009.6	3282.4	3519.0	3553.9
27.5°	2663.1	2660.6	2665.7	2673.5	2707.1	2800.2	2999.3	3109.2	3465.9	3675.4	3640.5
30°	2801.5	2792.5	2813.1	2840.2	2809.2	2862.3	3106.6	3189.3	3636.7	3833.1	3737.5
32.5°	2926.8	2960.5	2999.3	3010.9	2973.4	2983.8	3248.8	3332.8	3778.8	4027.0	3856.4
35°	3083.3	3110.4	3162.2	3198.3	3191.9	3160.9	3442.7	3553.9	3984.4	4169.3	3981.8
37.5°	3235.8	3268.2	3353.5	3460.8	3401.3	3387.1	3649.5	3741.4	4047.7	4245.5	4073.6
40°	3481.5	3480.2	3627.6	3683.2	3736.1	3711.6	3864.1	3895.2	4081.4	4228.7	4076.2
42.5°	3769.8	3751.7	3901.7	3988.3	4056.7	4059.3	4087.8	4077.4	4096.8	4143.4	4049.0
45°	4043.9	4082.6	4233.8	4389.0	4457.6	4465.3	4276.6	4257.1	4124.0	4118.8	3997.3
47.5°	4378.7	4387.7	4511.8	4716.1	4875.1	4820.8	4520.9	4478.2	4242.9	4283.0	4083.9
50°	4398.1	4465.3	4576.5	4816.9	5305.6	5291.4	4837.6	4757.5	4434.3	4515.7	4325.7
52.5°	3992.1	3976.6	4108.5	4501.5	5273.3	5759.3	5362.5	5171.1	4845.3	4783.4	4717.4
55°	3041.9	3078.1	3194.5	3591.4	4579.1	5765.8	6077.4	5921.0	5284.9	5178.9	5102.6
56°	2668.3	2673.5	2783.4	3145.3	4178.3	5560.3	6213.1	6086.5	5503.4	5341.8	5225.5
57.5°	2212.0	2182.2	2239.1	2436.9	3526.7	5125.9	6064.5	6188.6	5759.3	5517.6	5356.0
60°	1741.4	1734.9	1711.7	1747.9	2228.7	3861.5	5048.4	5327.6	5733.5	5352.1	5129.8
62.5°	1422.0	1389.8	1436.3	1488.0	1548.8	2395.5	3547.4	3711.6	4551.9	4272.7	3853.8
65°	1102.7	1087.2	1145.4	1313.5	1349.6	1521.6	2020.6	2147.3	2687.7	2639.9	2324.4
67.5°	758.8	761.4	811.9	1067.8	1251.4	1235.9	1237.2	1303.1	1402.7	1042.0	907.5
70°	480.9	479.6	506.8	687.8	1007.1	1017.4	965.7	946.3	897.2	542.9	575.3
72.5°	309.0	299.9	314.1	380.0	521.0	602.4	620.6	632.2	519.7	426.6	462.8
75°	174.5	165.5	160.3	177.1	205.5	237.8	261.1	268.9	301.2	323.2	342.6
77.5°	53.0	47.9	58.2	77.5	102.1	137.0	166.8	171.9	202.9	228.8	248.2
80°	23.3	25.8	36.2	51.7	72.4	97.0	117.7	125.4	146.1	165.5	170.6
82.5°	14.2	15.5	24.6	34.9	50.5	68.5	84.0	86.6	107.3	122.8	126.7
85°	5.1	6.5	13.0	20.7	32.3	44.0	44.0	47.9	44.0	44.0	47.9
87.5°	0.0	0.0	1.3	2.6	2.6	3.9	5.1	5.1	6.5	7.7	9.1
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°	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1	3334.1
2.5°	3343.1	3336.7	3326.3	3288.8	3284.9	3273.3	3208.7	3198.3	3208.7	3177.6	3180.2
5°	3336.7	3356.1	3278.5	3241.0	3171.2	3120.8	3062.6	3032.9	2979.9	2946.3	2983.8
7.5°	3365.1	3357.4	3260.4	3179.0	3074.3	2946.3	2844.1	2786.0	2692.9	2667.1	2686.4
10°	3354.7	3313.5	3199.7	3092.4	2894.6	2782.1	2616.6	2456.3	2368.4	2323.2	2316.7
12.5°	3340.5	3328.9	3138.9	2954.0	2745.9	2509.3	2276.6	2125.4	1981.8	1919.8	1928.8
15°	3357.4	3259.1	3025.2	2791.1	2514.5	2204.2	1953.4	1758.2	1658.6	1618.6	1618.6
17.5°	3349.6	3225.5	2970.8	2608.9	2258.5	1891.3	1616.0	1498.3	1456.9	1456.9	1468.6
20°	3353.5	3247.5	2860.9	2426.5	1956.0	1592.7	1392.4	1349.6	1367.8	1374.2	1380.7
22.5°	3375.4	3175.1	2753.6	2226.2	1675.4	1362.6	1264.4	1265.6	1298.0	1332.9	1326.4
25°	3402.6	3146.7	2623.1	2027.1	1460.8	1250.1	1219.1	1215.2	1239.8	1257.9	1260.5
27.5°	3379.4	3097.5	2489.9	1778.9	1285.0	1175.1	1168.7	1171.3	1179.0	1215.2	1203.6
30°	3455.6	3111.7	2323.2	1570.7	1188.1	1150.6	1142.8	1139.0	1150.6	1160.9	1151.8
32.5°	3550.0	3061.3	2199.0	1370.3	1140.2	1132.5	1116.9	1111.8	1118.3	1107.9	1113.1
35°	3591.4	3052.2	2037.4	1226.9	1102.7	1096.2	1087.2	1086.0	1087.2	1078.2	1070.4
37.5°	3614.6	3095.0	1852.6	1160.9	1079.5	1086.0	1065.3	1062.7	1039.4	1044.6	1048.5
40°	3654.7	3029.0	1702.6	1097.6	1065.3	1052.3	1034.3	1030.4	1014.8	1005.8	1014.8
42.5°	3596.5	3009.6	1555.3	1070.4	1044.6	1030.4	1017.4	995.4	990.3	982.5	977.3
45°	3550.0	2898.4	1423.4	1036.8	1020.0	1012.2	987.7	964.5	945.0	952.8	941.2
47.5°	3584.9	2859.7	1292.8	1008.4	986.4	977.3	952.8	934.7	915.3	906.3	903.7
50°	3724.5	2932.1	1182.9	987.7	958.0	952.8	920.5	899.8	881.7	875.2	877.8
52.5°	4058.1	3129.9	1107.9	945.0	930.8	907.5	889.4	863.6	851.9	831.2	844.2
55°	4480.8	3451.7	1088.5	904.9	897.2	876.5	851.9	832.6	810.6	793.7	789.9
56°	4616.6	3605.6	1073.0	889.4	876.5	864.9	832.6	820.9	786.0	782.1	779.5
57.5°	4726.4	3741.4	1075.6	859.7	846.8	836.5	817.0	788.6	765.3	751.1	757.6
60°	4478.2	3502.2	1026.4	814.4	811.9	792.5	765.3	752.4	723.9	707.2	703.2
62.5°	3328.9	2377.4	832.6	756.3	755.0	734.3	703.2	689.0	683.9	660.6	660.6
65°	1917.2	1490.6	720.1	708.5	698.1	677.4	646.4	634.8	621.8	614.1	607.6
67.5°	818.4	773.0	654.1	652.9	641.3	615.4	584.3	566.2	549.4	534.0	541.7
70°	593.4	602.4	590.8	584.3	570.1	537.8	510.7	488.7	462.8	452.5	460.2
72.5°	470.5	490.0	506.8	508.0	491.2	453.8	424.0	394.3	365.8	351.6	358.1
75°	356.8	369.7	386.5	390.4	365.8	340.0	311.6	280.6	258.5	241.8	244.3
77.5°	257.3	254.7	270.2	267.6	256.0	237.8	212.0	183.6	159.0	143.5	144.8
80°	175.9	179.7	188.7	187.5	173.2	161.6	142.2	118.9	100.8	87.9	85.4
82.5°	122.8	129.3	137.0	130.6	118.9	107.3	93.1	76.3	62.1	51.7	49.1
85°	44.0	50.5	58.2	62.1	65.9	63.3	53.0	42.6	31.0	25.8	24.6
87.5°	9.1	10.3	11.6	11.6	11.6	10.3	9.1	9.1	7.7	3.9	3.9
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)