

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: P527478

Luminaire Tested: **GALN-SA2C-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527478
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-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 10913.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

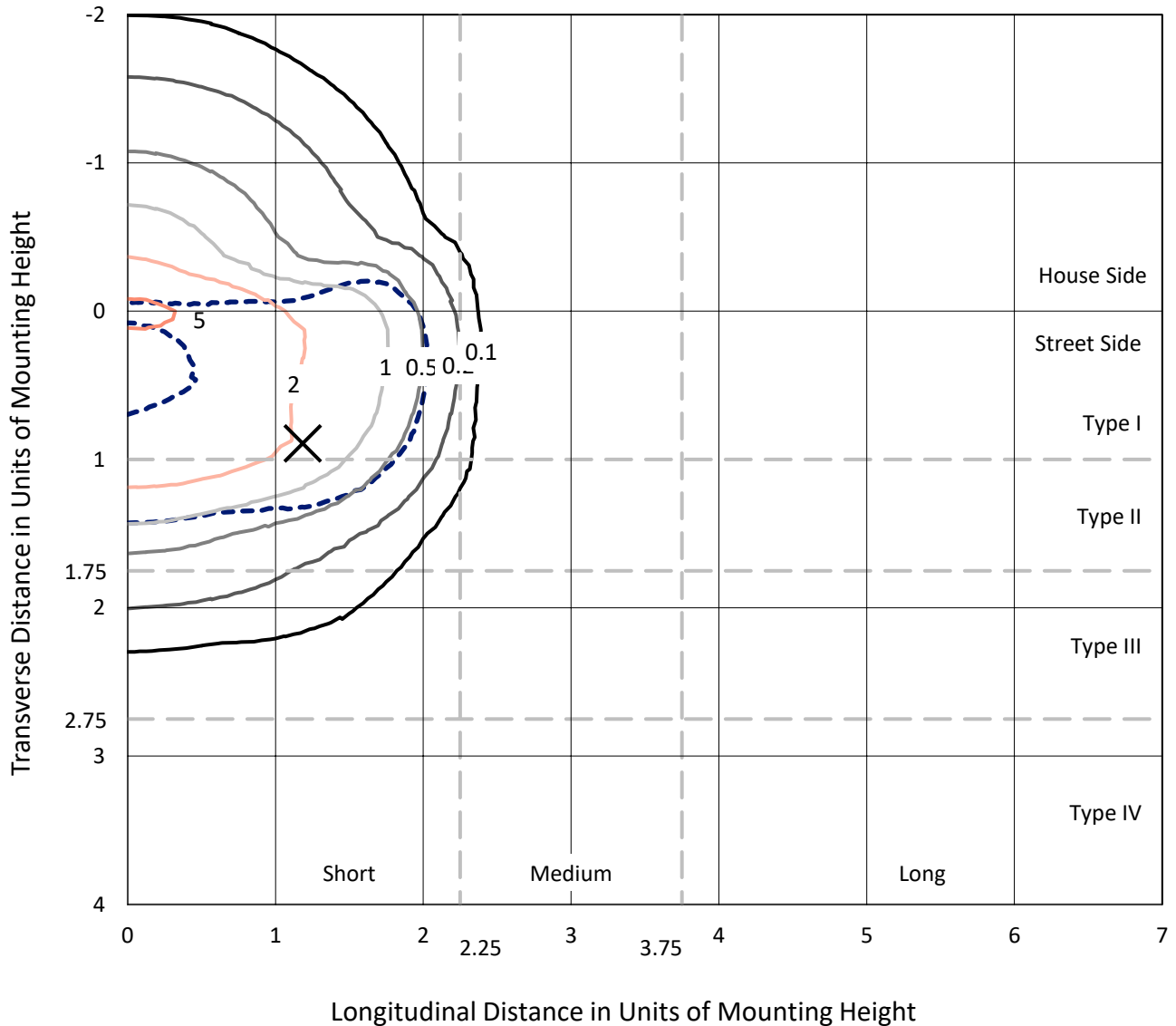
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

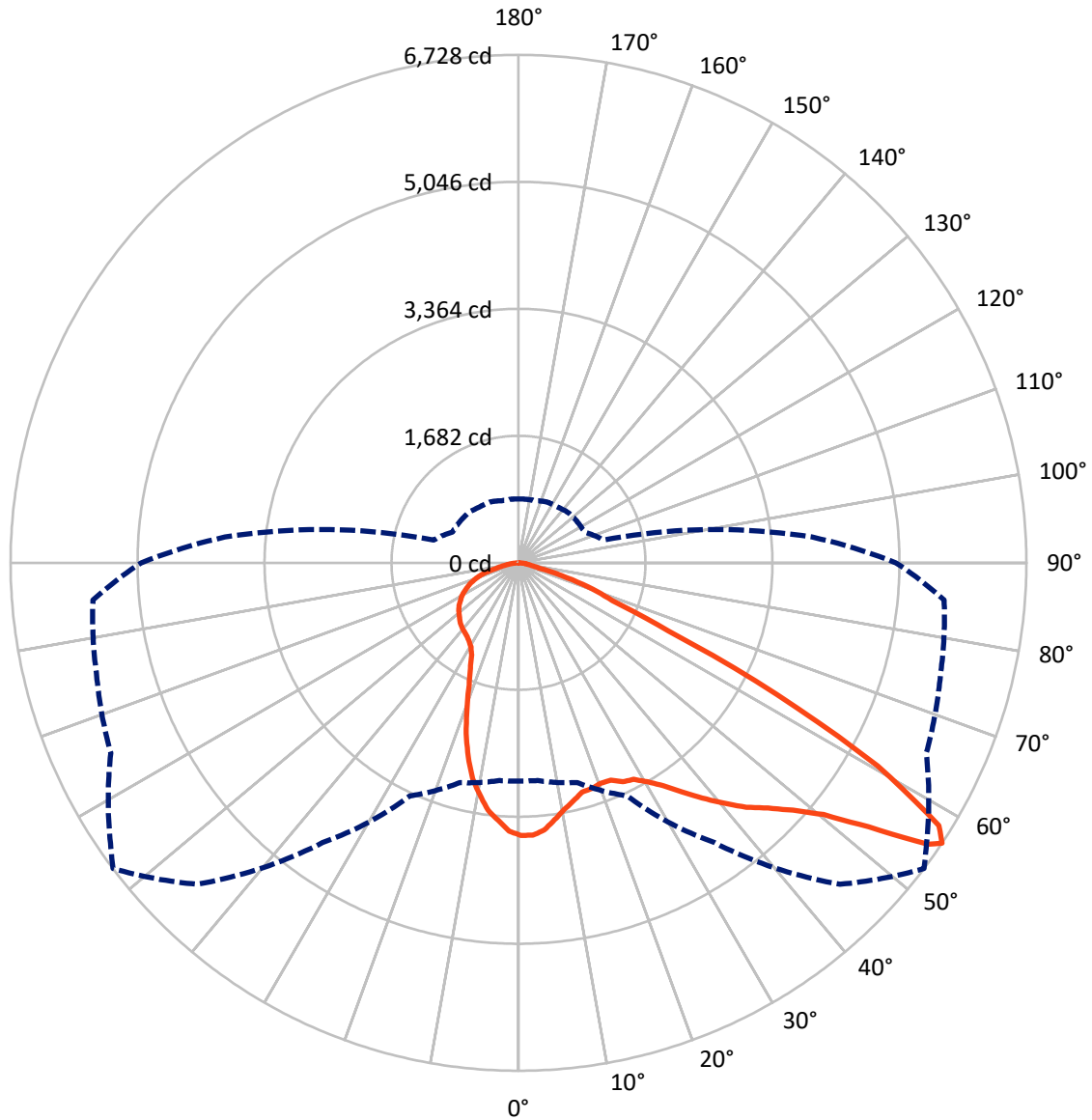
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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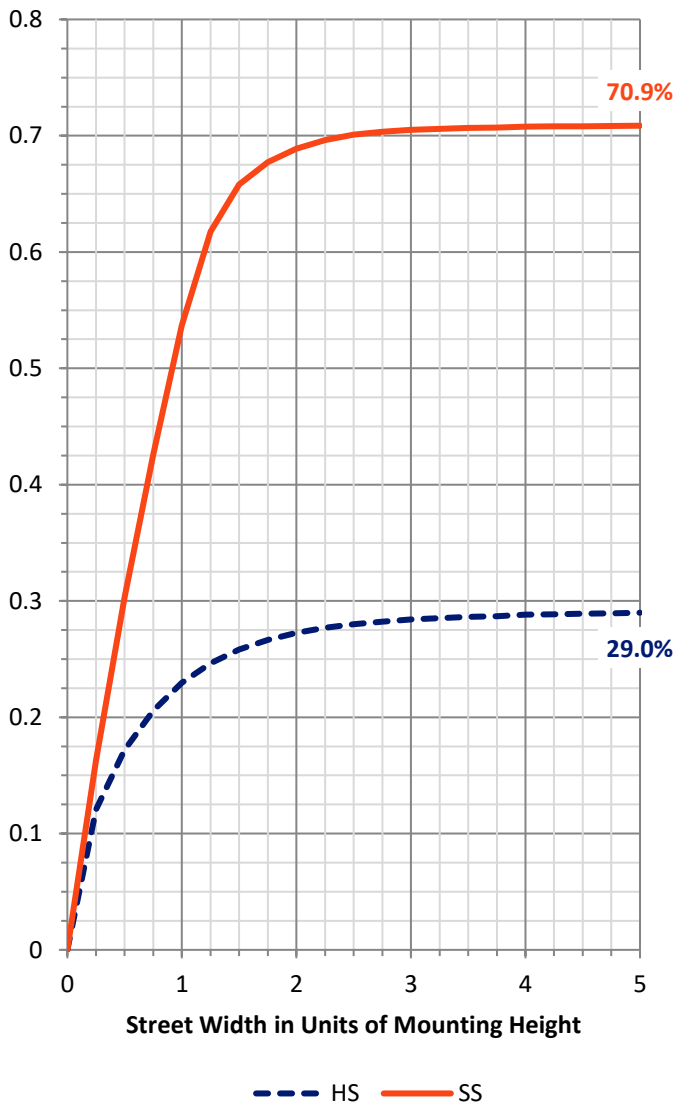
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3184.7	0.0	3184.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	7728.4	0.0	7728.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	10913.1	0.0	10913.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.6	2.9
10°-20°	798.3	7.3
20°-30°	1177.1	10.8
30°-40°	1681.9	15.4
40°-50°	2314.9	21.2
50°-60°	2735.6	25.1
60°-70°	1457.9	13.4
70°-80°	369.9	3.4
80°-90°	57.7	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°	10913.1	100.0
0°-180°	10913.1	100.0

Coefficient of Utilization

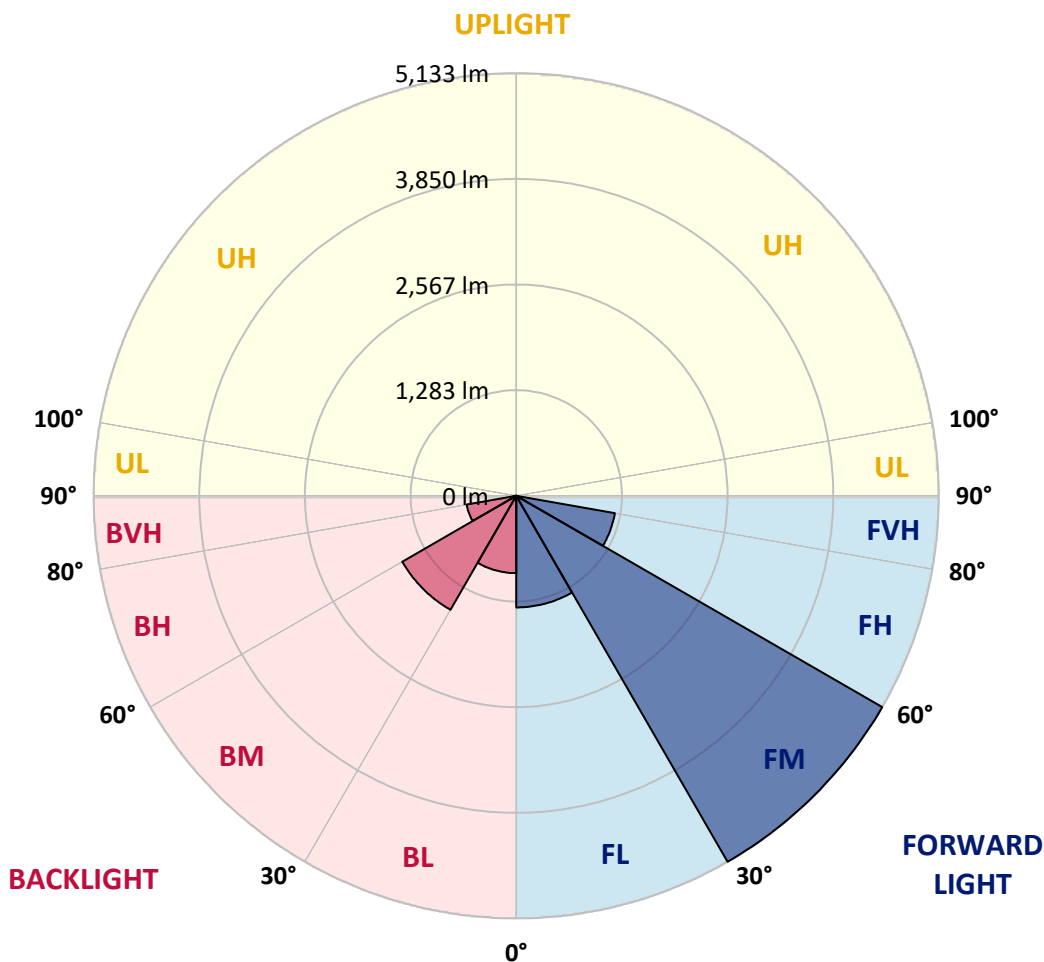


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1355.8	12.4			
FM (30°-60°)	5133.3	47.0			
FH (60°-80°)	1216.1	11.1			G1/1800
FVH (80°-90°)	23.2	0.2			G1/100
BL (0°-30°)	939.3	8.6	B2/1000		
BM (30°-60°)	1599.3	14.7	B2/2500		
BH (60°-80°)	611.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	34.5	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°	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5
2.5°	3565.7	3534.9	3553.1	3546.1	3603.5	3620.3	3611.9	3618.9	3651.0	3635.6	3603.5
5°	3331.9	3375.3	3383.7	3404.7	3438.3	3504.1	3555.9	3569.9	3585.3	3656.6	3649.6
7.5°	3119.1	3148.5	3133.1	3194.7	3267.5	3373.9	3436.9	3448.1	3589.5	3628.6	3658.0
10°	2984.7	2955.3	3025.3	3042.1	3124.7	3246.5	3322.1	3368.3	3497.1	3652.4	3670.6
12.5°	2860.1	2850.3	2892.3	2939.9	3032.3	3158.3	3235.3	3253.5	3452.3	3616.1	3701.4
15°	2767.7	2756.5	2798.5	2833.5	2941.3	3053.3	3151.3	3203.1	3403.3	3595.1	3674.8
17.5°	2694.9	2693.5	2717.3	2780.3	2890.9	2984.7	3142.9	3145.7	3378.1	3627.2	3697.2
20°	2690.7	2689.3	2693.5	2763.5	2864.3	2979.1	3116.3	3141.5	3378.1	3604.9	3698.6
22.5°	2725.7	2703.3	2728.5	2773.3	2846.1	2988.9	3126.1	3182.1	3459.3	3715.4	3761.6
25°	2781.7	2787.3	2801.3	2816.7	2858.7	3011.3	3212.9	3259.1	3554.5	3810.6	3848.4
27.5°	2883.9	2881.1	2886.7	2895.1	2931.5	3032.3	3247.9	3366.9	3753.2	3980.0	3942.2
30°	3033.7	3023.9	3046.3	3075.7	3042.1	3099.5	3364.1	3453.7	3938.0	4150.8	4047.2
32.5°	3169.5	3205.9	3247.9	3260.5	3219.9	3231.1	3518.1	3609.1	4092.0	4360.8	4176.0
35°	3338.9	3368.3	3424.3	3463.5	3456.5	3422.9	3728.0	3848.4	4314.6	4514.8	4311.8
37.5°	3504.1	3539.1	3631.4	3747.6	3683.2	3667.8	3952.0	4051.4	4383.2	4597.4	4411.2
40°	3770.0	3768.6	3928.2	3988.4	4045.8	4019.2	4184.4	4218.0	4419.6	4579.2	4414.0
42.5°	4082.2	4062.6	4225.0	4318.8	4393.0	4395.8	4426.6	4415.4	4436.4	4486.8	4384.6
45°	4379.0	4421.0	4584.8	4752.8	4827.0	4835.4	4631.0	4610.0	4465.8	4460.2	4328.6
47.5°	4741.6	4751.4	4885.8	5107.0	5279.2	5220.4	4895.6	4849.4	4594.6	4638.0	4422.4
50°	4762.6	4835.4	4955.8	5216.2	5745.4	5730.0	5238.6	5151.8	4801.8	4890.0	4684.2
52.5°	4323.0	4306.2	4449.0	4874.6	5710.4	6236.7	5807.0	5599.8	5247.0	5179.8	5108.4
55°	3294.1	3333.3	3459.3	3889.0	4958.6	6243.7	6581.1	6411.7	5723.0	5608.2	5525.6
56°	2889.5	2895.1	3014.1	3406.1	4524.6	6021.2	6728.1	6590.9	5959.6	5784.6	5658.6
57.5°	2395.3	2363.1	2424.7	2638.9	3819.0	5550.8	6567.1	6701.5	6236.7	5975.0	5800.0
60°	1885.7	1878.7	1853.5	1892.7	2413.5	4181.6	5466.8	5769.2	6208.7	5795.8	5555.0
62.5°	1539.9	1504.9	1555.3	1611.3	1677.1	2594.1	3841.4	4019.2	4929.2	4626.8	4173.2
65°	1194.2	1177.4	1240.3	1422.3	1461.5	1647.7	2188.1	2325.3	2910.5	2858.7	2517.1
67.5°	821.8	824.6	879.2	1156.4	1355.1	1338.3	1339.7	1411.1	1518.9	1128.4	982.8
70°	520.8	519.4	548.8	744.8	1090.6	1101.8	1045.8	1024.8	971.6	588.0	623.0
72.5°	334.6	324.8	340.2	411.6	564.2	652.4	672.0	684.6	562.8	462.0	501.2
75°	189.0	179.2	173.6	191.8	222.6	257.6	282.8	291.2	326.2	350.0	371.0
77.5°	57.4	51.8	63.0	84.0	110.6	148.4	180.6	186.2	219.8	247.8	268.8
80°	25.2	28.0	39.2	56.0	78.4	105.0	127.4	135.8	158.2	179.2	184.8
82.5°	15.4	16.8	26.6	37.8	54.6	74.2	91.0	93.8	116.2	133.0	137.2
85°	5.6	7.0	14.0	22.4	35.0	47.6	47.6	51.8	47.6	47.6	51.8
87.5°	0.0	0.0	1.4	2.8	2.8	4.2	5.6	5.6	7.0	8.4	9.8
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°	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5
2.5°	3620.3	3613.3	3602.1	3561.5	3557.3	3544.7	3474.7	3463.5	3474.7	3441.1	3443.9
5°	3613.3	3634.2	3550.3	3509.7	3434.1	3379.5	3316.5	3284.3	3226.9	3190.5	3231.1
7.5°	3644.0	3635.6	3530.7	3442.5	3329.1	3190.5	3079.9	3016.9	2916.1	2888.1	2909.1
10°	3632.8	3588.1	3464.9	3348.7	3134.5	3012.7	2833.5	2659.9	2564.7	2515.7	2508.7
12.5°	3617.5	3604.9	3399.1	3198.9	2973.5	2717.3	2465.3	2301.5	2146.1	2078.9	2088.7
15°	3635.6	3529.3	3275.9	3022.5	2722.9	2386.9	2115.3	1903.9	1796.1	1752.7	1752.7
17.5°	3627.2	3492.9	3217.1	2825.1	2445.7	2048.1	1749.9	1622.5	1577.7	1577.7	1590.3
20°	3631.4	3516.7	3098.1	2627.7	2118.1	1724.7	1507.7	1461.5	1481.1	1488.1	1495.1
22.5°	3655.2	3438.3	2981.9	2410.7	1814.3	1475.5	1369.1	1370.5	1405.5	1443.3	1436.3
25°	3684.6	3407.5	2840.5	2195.1	1581.9	1353.7	1320.1	1315.9	1342.5	1362.1	1364.9
27.5°	3659.4	3354.3	2696.3	1926.3	1391.5	1272.5	1265.5	1268.3	1276.7	1315.9	1303.3
30°	3742.0	3369.7	2515.7	1700.9	1286.5	1245.9	1237.5	1233.3	1245.9	1257.1	1247.3
32.5°	3844.2	3315.1	2381.3	1483.9	1234.7	1226.3	1209.5	1204.0	1210.9	1199.8	1205.4
35°	3889.0	3305.3	2206.3	1328.5	1194.2	1187.2	1177.4	1176.0	1177.4	1167.6	1159.2
37.5°	3914.2	3351.5	2006.1	1257.1	1169.0	1176.0	1153.6	1150.8	1125.6	1131.2	1135.4
40°	3957.6	3280.1	1843.7	1188.6	1153.6	1139.6	1120.0	1115.8	1099.0	1089.2	1099.0
42.5°	3894.6	3259.1	1684.1	1159.2	1131.2	1115.8	1101.8	1078.0	1072.4	1064.0	1058.4
45°	3844.2	3138.7	1541.3	1122.8	1104.6	1096.2	1069.6	1044.4	1023.4	1031.8	1019.2
47.5°	3882.0	3096.7	1399.9	1092.0	1068.2	1058.4	1031.8	1012.2	991.2	981.4	978.6
50°	4033.2	3175.1	1280.9	1069.6	1037.4	1031.8	996.8	974.4	954.8	947.8	950.6
52.5°	4394.4	3389.3	1199.8	1023.4	1008.0	982.8	963.2	935.2	922.6	900.2	914.2
55°	4852.2	3737.8	1178.8	980.0	971.6	949.2	922.6	901.6	877.8	859.6	855.4
56°	4999.2	3904.4	1162.0	963.2	949.2	936.6	901.6	889.0	851.2	847.0	844.2
57.5°	5118.2	4051.4	1164.8	931.0	917.0	905.8	884.8	854.0	828.8	813.4	820.4
60°	4849.4	3792.4	1111.6	882.0	879.2	858.2	828.8	814.8	784.0	765.8	761.6
62.5°	3604.9	2574.5	901.6	819.0	817.6	795.2	761.6	746.2	740.6	715.4	715.4
65°	2076.1	1614.1	779.8	767.2	756.0	733.6	700.0	687.4	673.4	665.0	658.0
67.5°	886.2	837.2	708.4	707.0	694.4	666.4	632.8	613.2	595.0	578.2	586.6
70°	642.6	652.4	639.8	632.8	617.4	582.4	553.0	529.2	501.2	490.0	498.4
72.5°	509.6	530.6	548.8	550.2	532.0	491.4	459.2	427.0	396.2	380.8	387.8
75°	386.4	400.4	418.6	422.8	396.2	368.2	337.4	303.8	280.0	261.8	264.6
77.5°	278.6	275.8	292.6	289.8	277.2	257.6	229.6	198.8	172.2	155.4	156.8
80°	190.4	194.6	204.4	203.0	187.6	175.0	154.0	128.8	109.2	95.2	92.4
82.5°	133.0	140.0	148.4	141.4	128.8	116.2	100.8	82.6	67.2	56.0	53.2
85°	47.6	54.6	63.0	67.2	71.4	68.6	57.4	46.2	33.6	28.0	26.6
87.5°	9.8	11.2	12.6	12.6	12.6	11.2	9.8	9.8	8.4	4.2	4.2
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)