

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: P950550

Luminaire Tested: **GALN-SB5A-722-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5A-722-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

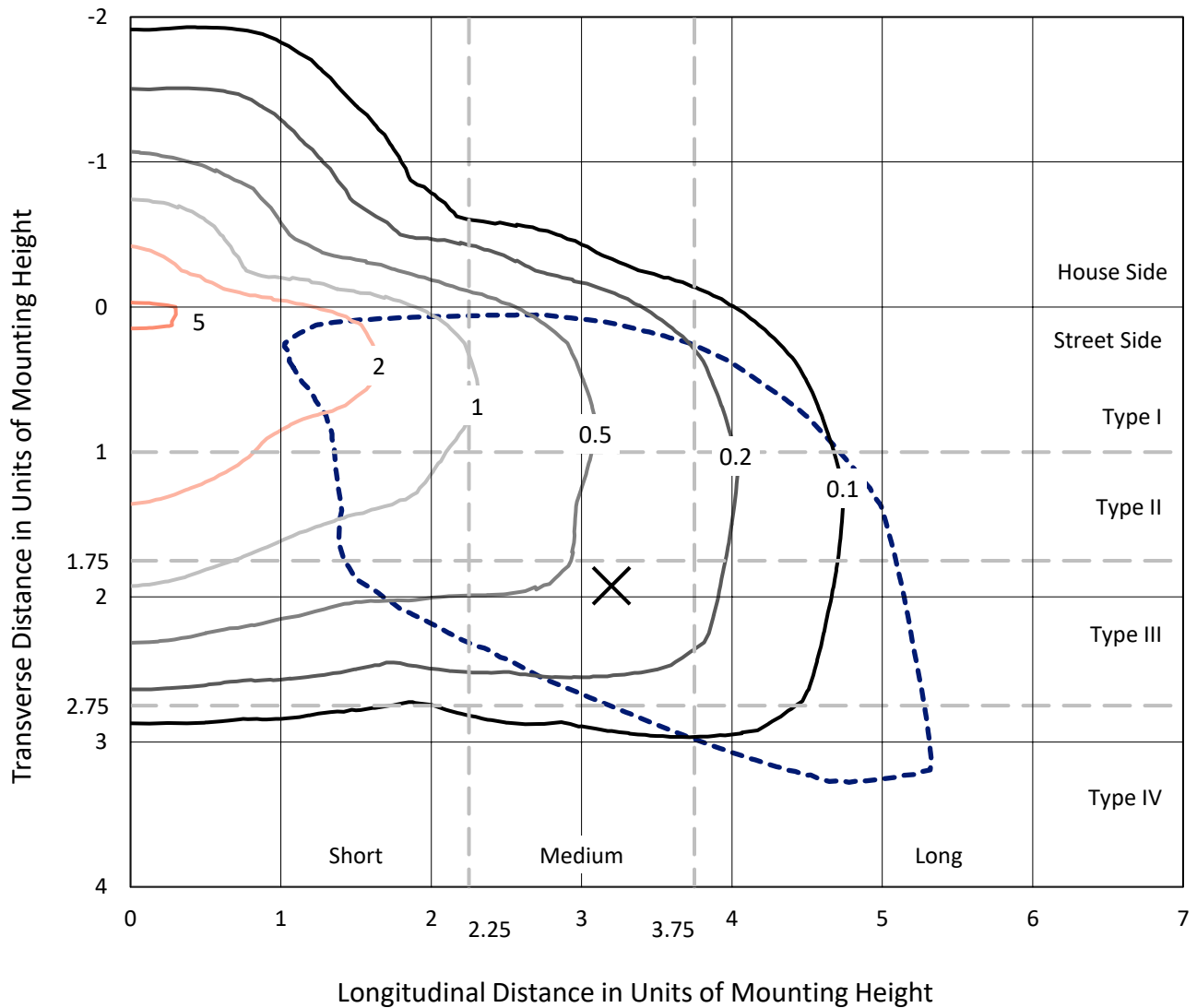
Lumens per Lamp: N/A  
Luminaire Lumens: 18294 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

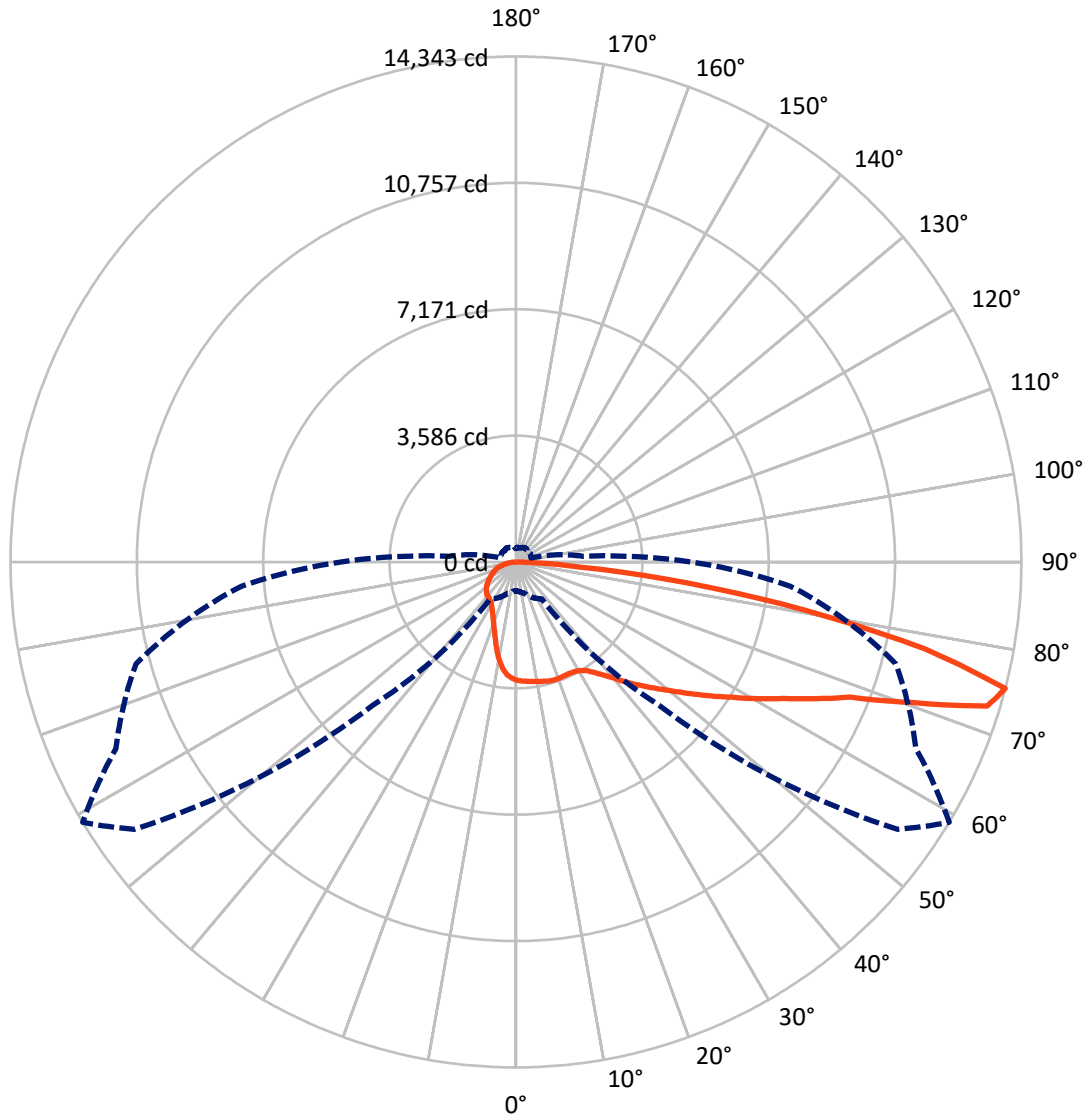
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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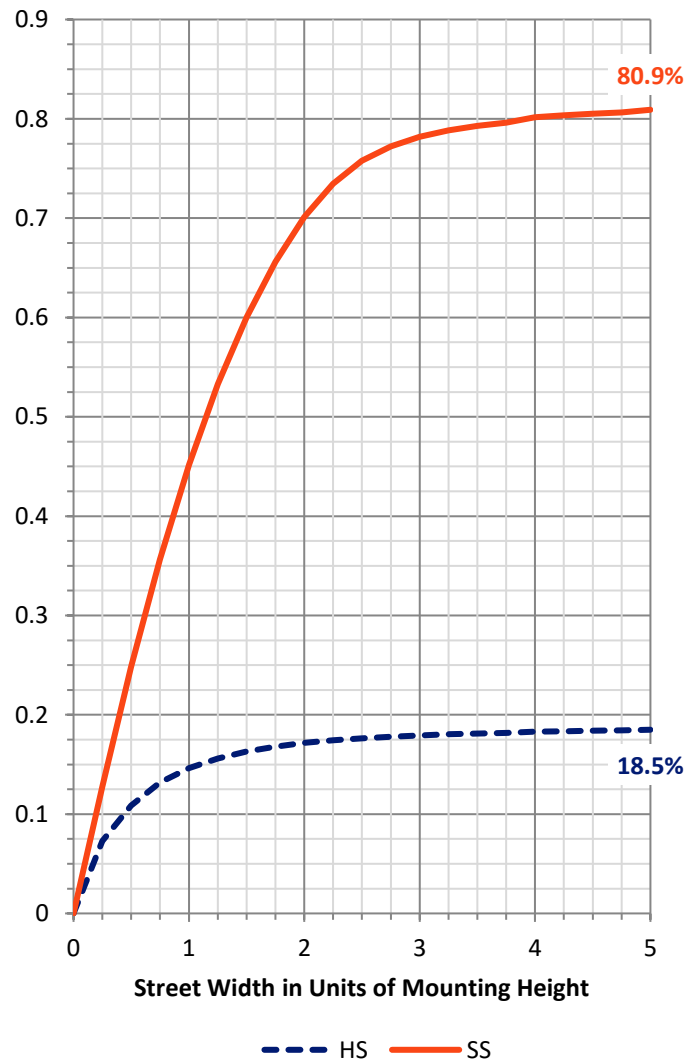
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3431.2	0.0	3431.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	14862.8	0.0	14862.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	18294.0	0.0	18294.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.1	1.6
10°-20°	769.6	4.2
20°-30°	1168.9	6.4
30°-40°	1737.6	9.5
40°-50°	2584.1	14.1
50°-60°	3507.6	19.2
60°-70°	4282.2	23.4
70°-80°	3360.6	18.4
80°-90°	582.1	3.2
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°	18294.0	100.0
0°-180°	18294.0	100.0



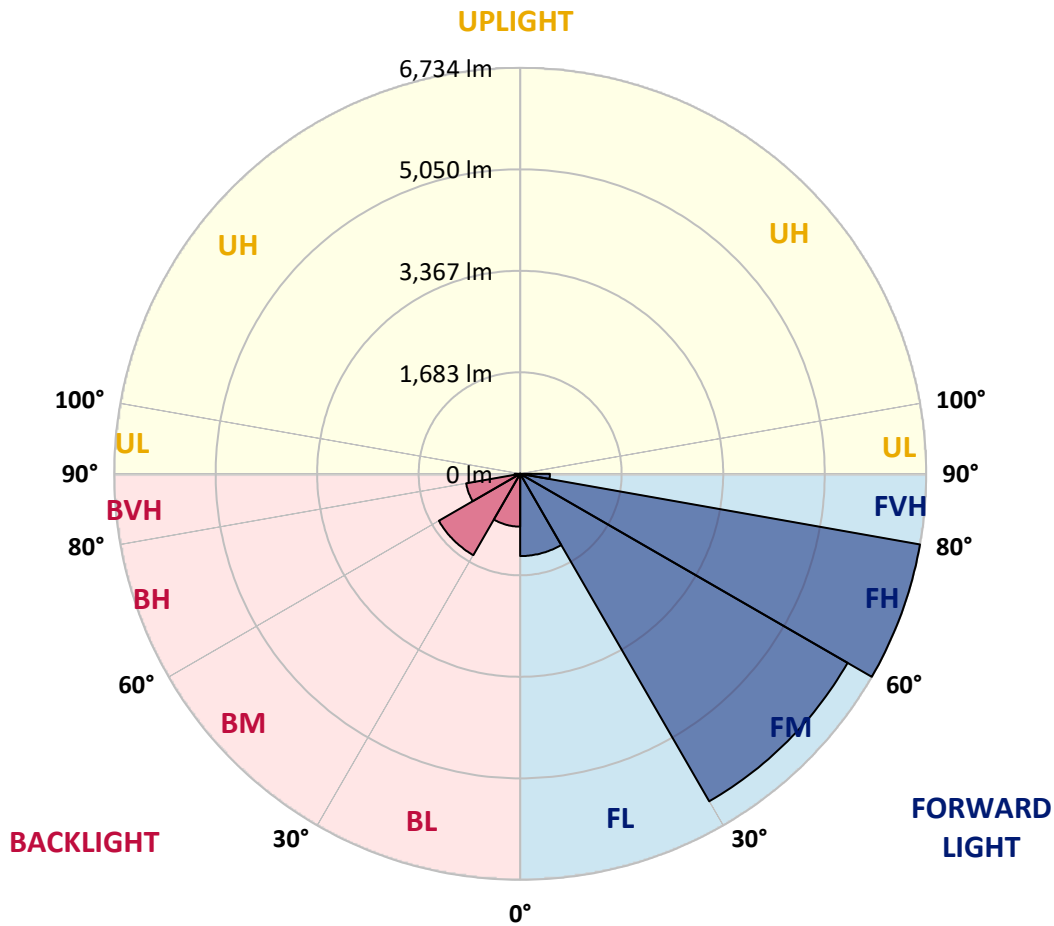
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.0	7.5			
FM (30°-60°)	6271.9	34.3			
FH (60°-80°)	6733.8	36.8			G3/7500
FVH (80°-90°)	493.0	2.7			G3/500
BL (0°-30°)	875.6	4.8	B2/1000		
BM (30°-60°)	1557.4	8.5	B2/2500		
BH (60°-80°)	909.1	5.0	B2/1000		G2/1000
BVH (80°-90°)	89.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8
2.5°	3386.4	3374.6	3386.4	3381.4	3379.5	3375.5	3376.5	3383.4	3379.5	3384.4	3367.7
5°	3363.7	3356.8	3368.6	3365.7	3378.5	3380.5	3393.3	3401.1	3406.0	3407.0	3394.2
7.5°	3326.3	3319.4	3336.2	3349.9	3377.5	3385.4	3411.9	3424.7	3431.6	3443.4	3424.7
10°	3189.5	3186.6	3227.9	3280.1	3345.0	3385.4	3425.7	3447.4	3458.2	3489.7	3468.0
12.5°	2947.4	2951.4	3005.5	3105.9	3235.8	3365.7	3441.5	3473.0	3489.7	3529.1	3519.2
15°	2716.2	2715.2	2774.2	2881.5	3063.6	3279.1	3449.3	3503.5	3532.0	3590.1	3582.2
17.5°	2582.3	2578.4	2619.7	2701.4	2870.7	3146.2	3429.7	3520.2	3581.2	3654.0	3647.2
20°	2557.7	2549.9	2571.5	2611.9	2731.9	3000.6	3378.5	3520.2	3620.6	3715.1	3711.1
22.5°	2647.3	2634.5	2625.6	2620.7	2673.9	2880.5	3320.4	3508.4	3678.6	3802.6	3795.8
25°	2827.4	2807.7	2762.4	2718.1	2702.4	2826.4	3269.3	3505.4	3765.2	3920.7	3895.2
27.5°	3118.7	3094.1	3002.6	2896.3	2800.8	2854.0	3246.6	3523.2	3860.7	4045.7	3994.5
30°	3479.9	3453.3	3338.1	3174.8	3003.5	2956.3	3275.2	3575.3	3982.7	4212.0	4111.7
32.5°	3803.6	3774.1	3675.7	3509.4	3278.1	3133.4	3365.7	3674.7	4174.6	4443.3	4287.8
35°	4091.0	4056.5	3968.0	3814.5	3614.7	3382.4	3529.1	3850.9	4447.2	4819.2	4527.0
37.5°	4372.5	4332.1	4235.7	4073.3	3933.5	3714.1	3754.4	4077.2	4809.4	5275.9	4843.8
40°	4687.4	4629.3	4512.2	4351.8	4216.0	4102.8	4050.6	4354.7	5177.5	5785.7	5239.5
42.5°	4992.4	4937.3	4797.6	4660.8	4490.5	4458.1	4394.1	4679.5	5580.0	6345.6	5641.0
45°	5321.1	5255.2	5085.9	4912.7	4805.5	4694.3	4726.7	5004.3	5974.6	6916.4	6062.2
47.5°	5629.2	5555.4	5355.6	5162.7	5103.7	4893.1	5031.8	5361.5	6385.0	7495.1	6479.5
50°	5795.5	5722.7	5556.4	5382.2	5335.9	5138.1	5362.5	5754.2	6815.0	8071.8	6880.0
52.5°	5934.3	5855.5	5638.0	5541.6	5527.8	5404.8	5769.9	6202.9	7245.1	8581.5	7266.8
55°	6081.9	5994.3	5716.8	5630.2	5693.1	5704.0	6253.1	6711.7	7699.8	9078.5	7631.9
57.5°	6252.1	6140.9	5792.5	5705.0	5854.5	6054.3	6808.2	7239.2	8146.6	9539.1	7956.6
60°	6412.5	6300.3	5938.2	5824.0	6028.7	6460.8	7444.9	7877.9	8652.4	9949.5	8263.7
62.5°	6444.0	6351.5	6054.3	6053.3	6264.9	6935.1	8198.7	8522.5	9094.3	10354.9	8539.2
65°	5898.8	5840.8	5664.6	6044.5	6603.5	7618.1	9038.2	9347.2	9656.2	10709.2	8781.3
67.5°	4489.6	4497.4	4484.6	5217.8	6329.9	8599.3	10253.6	10229.9	10350.0	11106.8	9059.8
70°	2052.9	2099.1	2400.3	3601.9	5071.2	8712.4	12263.1	11957.1	11221.0	11621.5	9300.9
72.5°	1109.1	1144.5	1267.5	1744.8	3048.8	7746.0	13764.9	13982.4	12379.3	11967.9	9036.2
75°	813.9	833.6	919.2	1109.1	1280.3	5757.1	13226.6	14342.6	12523.9	11159.9	7803.1
77.5°	609.2	618.0	687.9	878.8	655.4	3035.0	10568.5	11878.3	10721.0	9169.1	5764.0
80°	441.9	451.7	503.9	659.4	459.6	1110.1	7256.9	8337.5	7342.5	5844.7	2872.7
82.5°	305.1	309.0	331.6	448.8	320.8	431.0	4117.6	4889.1	4098.9	2050.9	775.5
85°	184.0	189.0	198.8	261.8	182.1	204.7	1777.3	1838.3	1225.2	490.1	241.1
87.5°	75.8	80.7	88.6	110.2	71.8	57.1	293.3	368.1	229.3	143.7	74.8
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°	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8	3357.8
2.5°	3362.7	3355.9	3337.2	3311.6	3288.0	3258.4	3245.6	3234.8	3225.0	3206.3	3197.4
5°	3383.4	3364.7	3314.5	3249.6	3175.8	3095.1	3016.3	2962.2	2916.0	2881.5	2853.0
7.5°	3414.9	3379.5	3288.0	3155.1	2985.8	2812.6	2656.1	2544.9	2461.3	2430.8	2377.6
10°	3447.4	3405.1	3245.6	3011.4	2719.1	2452.4	2244.8	2130.6	2063.7	2042.1	2008.6
12.5°	3485.8	3423.8	3179.7	2811.6	2420.9	2128.7	1947.6	1880.7	1846.2	1834.4	1837.4
15°	3541.9	3439.5	3080.3	2561.7	2136.5	1892.5	1775.4	1729.1	1711.4	1710.4	1714.3
17.5°	3584.2	3442.5	2925.8	2294.0	1918.1	1749.8	1653.3	1635.6	1647.4	1665.1	1672.0
20°	3631.4	3415.9	2723.1	2049.9	1764.5	1624.8	1584.4	1596.2	1624.8	1650.4	1659.2
22.5°	3664.9	3367.7	2478.0	1860.0	1631.7	1552.9	1551.0	1575.6	1591.3	1604.1	1611.0
25°	3694.4	3286.0	2218.2	1700.6	1522.4	1509.6	1531.3	1523.4	1512.6	1523.4	1530.3
27.5°	3716.0	3157.1	1986.0	1560.8	1445.7	1480.1	1467.3	1449.6	1448.6	1454.5	1464.4
30°	3709.2	2984.8	1795.0	1428.0	1391.5	1425.0	1394.5	1391.5	1388.6	1391.5	1402.4
32.5°	3709.2	2789.0	1648.4	1336.4	1357.1	1344.3	1341.4	1334.5	1322.7	1321.7	1334.5
35°	3729.8	2593.2	1522.4	1287.2	1328.6	1298.1	1300.0	1283.3	1258.7	1246.9	1258.7
37.5°	3772.1	2435.7	1397.5	1263.6	1278.4	1277.4	1269.5	1241.0	1197.7	1160.3	1173.1
40°	3874.5	2389.4	1311.8	1252.8	1254.8	1266.6	1245.9	1190.8	1092.4	1031.4	1039.2
42.5°	4034.9	2467.2	1293.1	1226.2	1239.0	1250.8	1210.5	1082.5	1012.7	976.2	976.2
45°	4238.6	2603.0	1333.5	1187.8	1201.6	1222.3	1102.2	1041.2	1009.7	1010.7	1015.6
47.5°	4496.5	2745.7	1408.3	1154.4	1147.5	1159.3	1030.4	993.0	949.7	960.5	988.1
50°	4794.6	2890.4	1479.1	1109.1	1087.5	1049.1	984.1	948.7	893.6	868.0	874.9
52.5°	5117.4	3030.1	1507.7	1054.0	1022.5	978.2	952.6	909.3	842.4	800.1	799.1
55°	5423.5	3157.1	1476.2	988.1	957.6	923.1	919.2	892.6	820.8	761.7	761.7
57.5°	5712.8	3263.3	1397.5	921.1	891.6	870.9	897.5	884.7	794.2	718.4	714.5
60°	5957.9	3336.2	1283.3	853.2	832.6	821.7	862.1	858.2	756.8	672.2	669.2
62.5°	6152.7	3364.7	1157.3	788.3	783.4	763.7	812.9	812.9	709.6	626.9	623.9
65°	6305.3	3337.2	1029.4	724.3	734.2	704.6	752.9	746.9	659.4	586.5	582.6
67.5°	6440.1	3246.6	887.7	661.3	684.0	646.6	689.9	676.1	604.3	546.2	542.3
70°	6500.1	3036.0	726.3	598.3	625.9	589.5	626.9	601.3	542.3	502.9	495.0
72.5°	6017.9	2523.3	571.8	532.4	556.0	526.5	559.0	529.5	475.3	457.6	442.9
75°	4978.7	1893.4	439.9	460.6	478.3	455.6	477.3	455.6	406.4	419.2	382.8
77.5°	3615.7	1278.4	336.6	384.8	392.7	380.9	399.6	375.0	330.7	327.7	313.0
80°	1798.0	748.9	263.7	304.1	301.1	293.3	314.9	303.1	265.7	281.5	278.5
82.5°	520.6	320.8	191.9	213.6	207.6	209.6	225.4	231.3	346.4	343.5	351.3
85°	163.4	126.0	115.1	119.1	113.2	116.1	132.9	263.7	244.1	142.7	154.5
87.5°	42.3	43.3	28.5	30.5	31.5	37.4	42.3	160.4	76.8	50.2	53.1
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)