

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: P382985

Luminaire Tested: **GLEON-SA3B-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16617 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

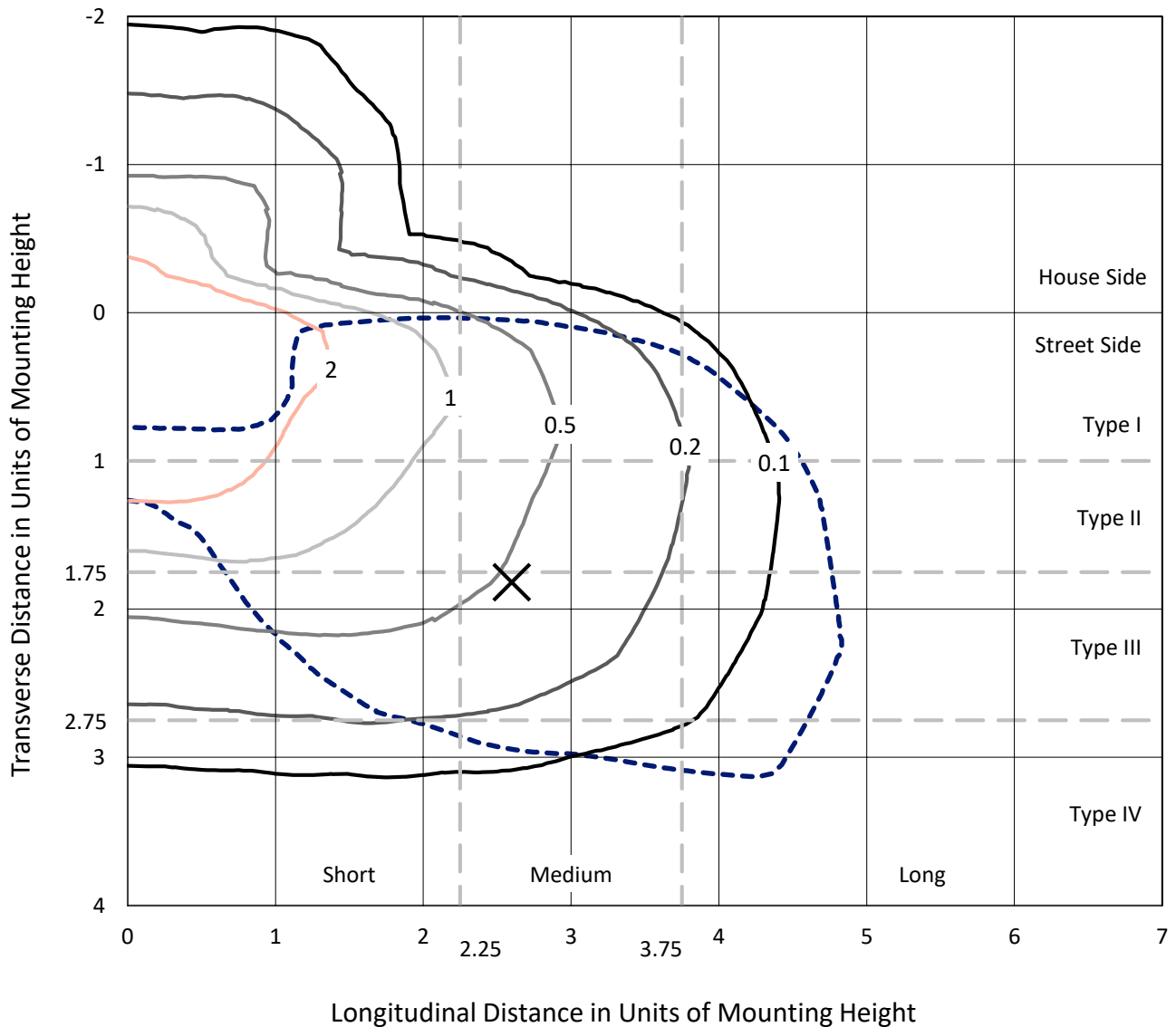
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

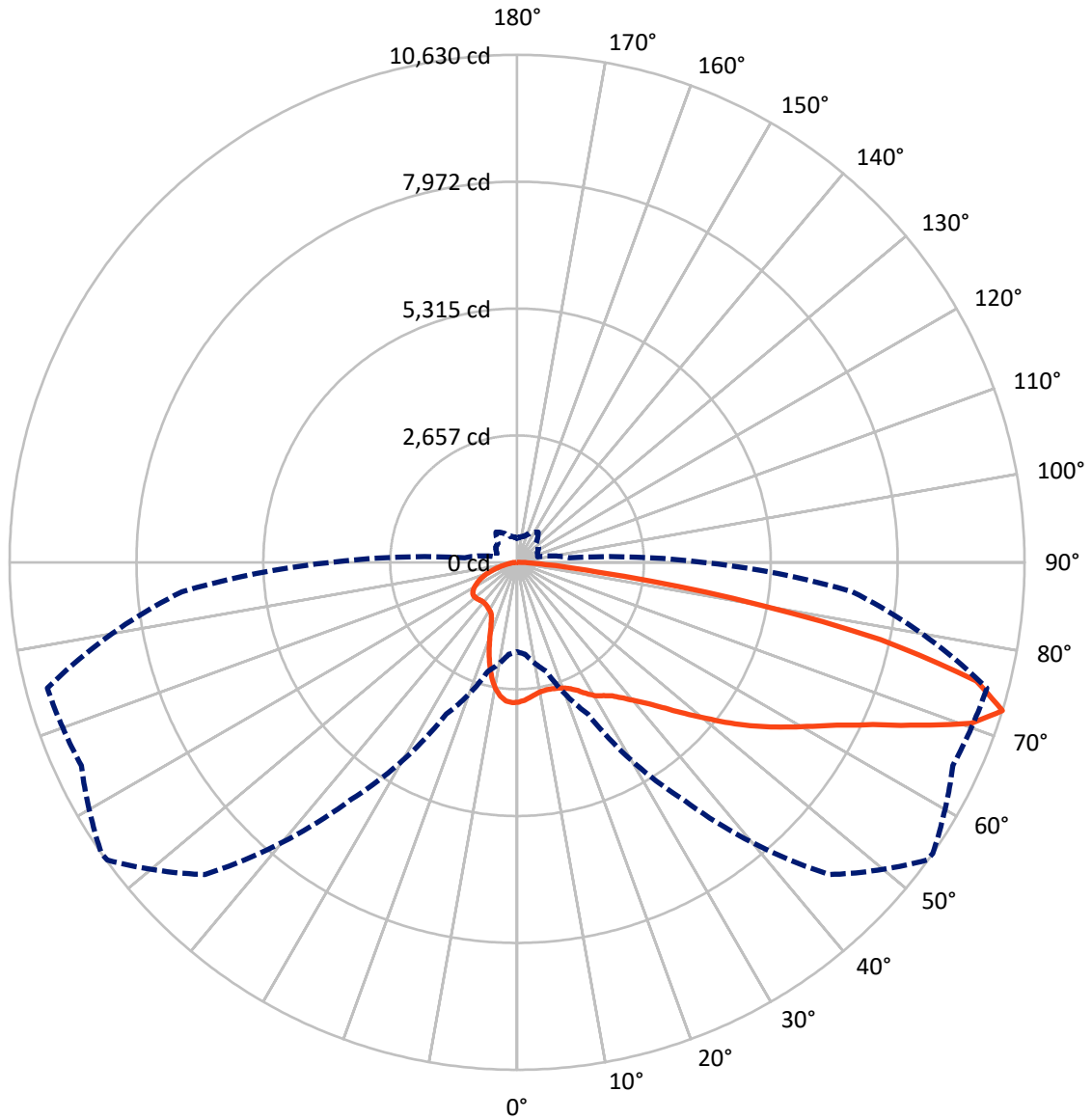
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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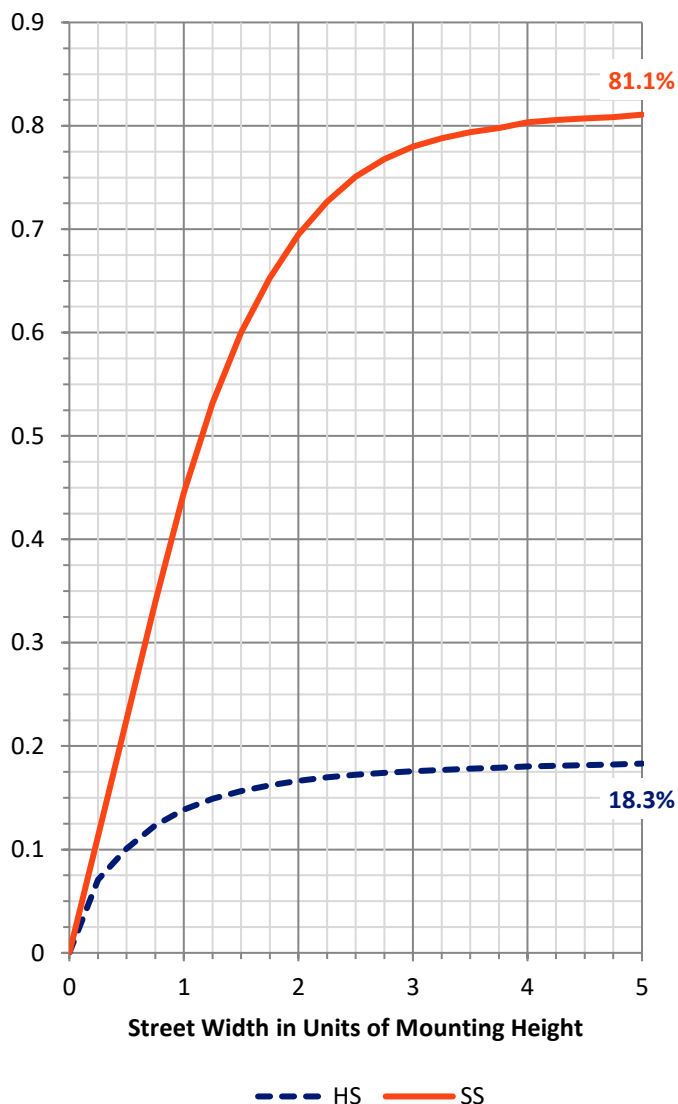
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3088.5	0.0	3088.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	13528.4	0.0	13528.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	16617.0	0.0	16617.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.2	1.6
10°-20°	706.1	4.2
20°-30°	1164.2	7.0
30°-40°	1722.1	10.4
40°-50°	2403.7	14.5
50°-60°	3129.6	18.8
60°-70°	3846.3	23.1
70°-80°	3015.0	18.1
80°-90°	364.9	2.2
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°	16617.0	100.0
0°-180°	16617.0	100.0

**Coefficient of Utilization**

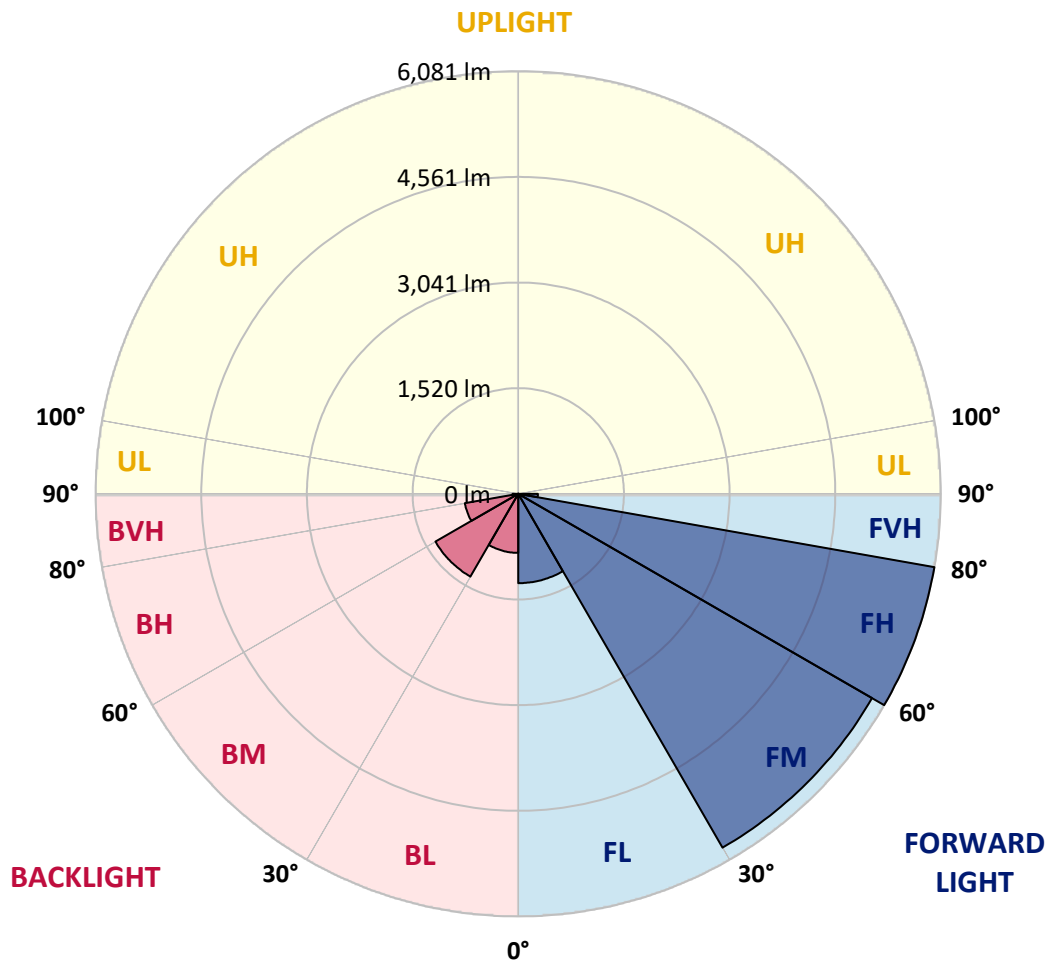


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.7	7.7			
FM (30°-60°)	5879.4	35.4			
FH (60°-80°)	6081.2	36.6			G3/7500
FVH (80°-90°)	282.1	1.7			G3/500
BL (0°-30°)	849.8	5.1	B2/1000		
BM (30°-60°)	1376.0	8.3	B2/2500		
BH (60°-80°)	780.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	82.8	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°	54°	55°	65°	75°	85°
0°	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8
2.5°	2835.4	2828.7	2837.1	2849.0	2861.8	2879.2	2889.4	2893.9	2911.3	2918.0	2932.5
5°	2704.1	2700.7	2714.8	2735.0	2763.6	2804.1	2836.6	2842.7	2888.8	2921.3	2951.0
7.5°	2608.7	2608.7	2625.0	2649.1	2681.1	2735.6	2781.6	2790.0	2868.0	2938.2	2993.2
10°	2533.0	2535.8	2554.9	2583.5	2621.1	2678.9	2740.1	2749.6	2862.4	2977.4	3065.0
12.5°	2482.4	2489.2	2506.6	2532.4	2579.0	2649.1	2726.5	2739.5	2874.2	3033.6	3151.4
15°	2514.4	2525.6	2527.3	2538.0	2563.8	2640.1	2734.5	2747.9	2899.4	3090.9	3249.7
17.5°	2654.7	2658.6	2641.3	2618.9	2606.5	2655.3	2758.0	2772.0	2929.7	3147.5	3344.0
20°	2868.0	2865.7	2828.2	2767.5	2704.7	2712.6	2796.7	2811.3	2970.7	3197.4	3438.2
22.5°	3137.5	3129.5	3071.8	2960.1	2852.9	2808.0	2864.6	2877.0	3032.5	3268.7	3539.2
25°	3464.1	3446.6	3370.3	3220.5	3062.7	2947.1	2966.8	2978.6	3122.3	3348.4	3631.9
27.5°	3808.6	3791.3	3694.1	3512.9	3303.0	3122.8	3107.6	3117.8	3224.4	3407.4	3700.4
30°	4169.0	4150.5	4061.8	3858.7	3557.8	3304.7	3239.0	3242.9	3296.3	3439.4	3756.5
32.5°	4531.0	4513.6	4414.2	4178.5	3834.5	3500.0	3333.8	3328.8	3339.5	3472.4	3819.9
35°	4898.1	4904.8	4788.6	4527.6	4140.9	3717.2	3446.1	3435.5	3411.9	3540.4	3909.7
37.5°	5290.9	5286.4	5136.1	4863.2	4461.4	3952.9	3607.1	3605.5	3524.1	3668.9	4050.6
40°	5553.6	5556.4	5464.9	5206.8	4785.3	4213.9	3813.8	3809.8	3703.2	3861.5	4235.2
42.5°	5656.4	5674.8	5698.5	5534.5	5124.3	4516.4	4060.2	4054.5	3952.9	4137.6	4452.4
45°	5663.6	5700.7	5846.6	5825.8	5467.7	4862.7	4375.0	4359.3	4286.3	4504.6	4711.8
47.5°	5600.7	5638.9	5881.4	5999.3	5774.8	5228.1	4743.2	4730.8	4668.0	4963.8	4992.3
50°	5463.2	5499.8	5809.5	6084.0	6027.3	5579.4	5167.5	5134.9	5101.2	5494.1	5313.4
52.5°	5205.7	5275.8	5713.6	6104.2	6178.3	5891.5	5613.7	5592.4	5610.9	6053.7	5635.0
55°	4595.5	4674.1	5466.0	6087.4	6290.0	6153.6	6059.9	6058.8	6154.7	6640.7	5980.2
57.5°	4253.7	4309.3	4962.1	6058.8	6422.5	6414.0	6501.6	6512.3	6699.1	7280.0	6341.6
60°	4060.7	4119.0	4706.6	5952.7	6627.9	6750.7	6952.2	6973.6	7252.6	7987.7	6776.5
62.5°	3885.0	3949.0	4548.4	5736.6	6869.8	7232.3	7492.2	7511.3	7838.5	8715.2	7197.0
65°	3584.7	3657.2	4316.6	5594.6	7089.7	7860.4	8178.6	8191.5	8511.5	9477.4	7518.5
67.5°	3160.5	3226.7	3879.4	5280.9	7252.6	8623.1	9091.2	9098.5	9178.7	10015.6	7683.0
70°	2664.9	2690.1	3256.4	4633.1	7060.0	9336.4	10091.4	10093.0	9787.1	10360.2	7656.1
72.5°	1872.3	1931.8	2364.0	3507.3	6067.2	9249.5	10610.5	10629.6	10070.0	10186.2	7044.3
75°	1148.3	1211.2	1482.8	2125.5	3849.1	7274.5	9803.4	9935.9	9539.6	9082.2	5754.5
77.5°	767.8	791.3	967.6	1239.2	1743.9	4185.3	7537.1	7786.2	7925.0	6623.4	3680.2
80°	428.2	473.1	641.6	770.0	775.7	1663.0	4519.2	4577.6	4409.2	2637.3	1135.5
82.5°	226.7	251.4	428.2	452.4	423.2	556.8	1684.3	1686.0	1408.8	707.1	337.3
85°	175.7	196.5	293.5	276.1	216.1	247.0	555.7	585.9	479.3	289.6	110.0
87.5°	87.6	108.9	199.3	175.1	84.8	70.7	198.7	212.1	189.1	113.4	39.9
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°	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8
2.5°	2938.2	2943.2	2949.4	2942.7	2940.4	2931.4	2916.3	2912.9	2905.0	2905.6	2910.1
5°	2964.0	2972.4	2969.0	2943.2	2912.4	2869.2	2824.3	2786.1	2760.8	2759.2	2757.5
7.5°	3013.4	3019.0	2992.6	2919.1	2832.6	2732.8	2638.4	2556.0	2506.0	2493.7	2490.9
10°	3090.9	3089.7	3017.3	2869.2	2696.8	2518.3	2366.8	2252.3	2185.5	2165.8	2160.8
12.5°	3177.2	3164.4	3025.8	2778.2	2504.8	2257.3	2065.4	1938.0	1868.4	1846.0	1840.4
15°	3266.5	3234.5	3005.0	2642.4	2269.2	1976.2	1774.7	1656.9	1619.2	1606.8	1604.6
17.5°	3349.6	3287.8	2945.5	2458.3	2000.3	1696.1	1538.9	1491.8	1500.8	1517.0	1517.7
20°	3431.0	3323.8	2850.1	2225.9	1716.8	1465.4	1412.1	1446.9	1489.5	1522.7	1527.2
22.5°	3511.2	3349.0	2727.1	1957.6	1463.2	1335.7	1373.4	1436.8	1485.6	1521.6	1527.7
25°	3578.5	3355.2	2557.7	1671.4	1286.9	1286.9	1354.8	1414.9	1463.2	1498.6	1504.7
27.5°	3603.2	3313.6	2318.5	1406.5	1198.2	1264.5	1329.0	1379.0	1420.0	1457.6	1464.3
30°	3612.8	3236.8	2042.4	1193.8	1161.8	1240.4	1294.3	1336.9	1375.6	1411.0	1417.2
32.5°	3614.5	3144.2	1749.4	1073.1	1136.6	1215.1	1251.1	1288.6	1330.2	1344.2	1346.5
35°	3625.1	3034.7	1440.7	1011.4	1113.0	1191.5	1220.1	1247.1	1179.7	1184.8	1189.3
37.5°	3656.0	2926.4	1182.6	976.5	1097.8	1179.2	1213.4	1115.8	1063.0	1050.7	1049.0
40°	3713.8	2810.8	991.2	948.5	1092.2	1185.4	1170.2	1041.7	950.7	882.8	872.8
42.5°	3794.1	2686.2	868.9	930.0	1096.2	1215.1	1110.1	970.4	819.4	775.7	770.0
45°	3884.5	2555.4	802.6	917.1	1109.6	1238.1	1097.8	875.6	758.3	725.1	722.3
47.5°	3972.0	2395.5	768.3	911.5	1128.1	1219.6	1045.7	846.4	729.0	711.7	713.4
50°	4072.4	2251.2	747.6	905.3	1144.4	1207.8	986.7	831.2	717.9	739.2	761.6
52.5°	4157.2	2101.9	729.0	893.0	1150.6	1187.1	971.5	834.0	717.9	758.8	780.2
55°	4257.6	1989.0	707.7	867.2	1138.8	1128.1	960.9	850.9	726.2	700.4	702.7
57.5°	4387.3	1952.1	684.1	826.7	1099.5	1042.2	955.9	867.2	721.2	704.9	710.6
60°	4566.9	1991.4	674.6	773.9	1038.3	974.9	956.4	858.7	685.9	657.8	658.3
62.5°	4738.1	2035.2	674.1	740.9	963.1	914.9	943.5	831.2	667.9	651.6	657.8
65°	4794.2	1990.8	647.1	703.8	878.4	843.1	919.9	802.1	654.4	629.7	628.6
67.5°	4719.0	1853.2	592.7	643.8	781.3	759.4	889.1	767.2	633.1	612.9	609.5
70°	4495.6	1546.3	525.3	564.6	670.7	665.1	840.2	726.8	604.5	587.1	572.4
72.5°	3894.5	1101.7	442.9	469.8	546.1	564.1	772.8	674.1	564.1	526.4	504.0
75°	3198.6	815.5	363.7	369.3	414.7	463.6	680.2	612.3	516.4	452.4	434.9
77.5°	1958.8	498.9	289.6	291.9	297.4	369.8	560.1	543.3	455.7	377.2	364.8
80°	634.2	272.2	209.3	220.0	203.2	271.1	433.3	462.5	391.2	315.4	301.9
82.5°	241.4	158.8	141.4	148.8	140.8	181.8	316.0	370.4	320.5	259.3	211.0
85°	116.7	89.8	83.7	93.7	87.0	93.2	202.1	272.8	243.0	169.0	157.2
87.5°	41.5	39.9	32.0	43.2	37.1	33.1	61.8	137.5	160.5	116.2	103.9
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)