

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: P648498

Luminaire Tested: **GALN-SA6B-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15585.6 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

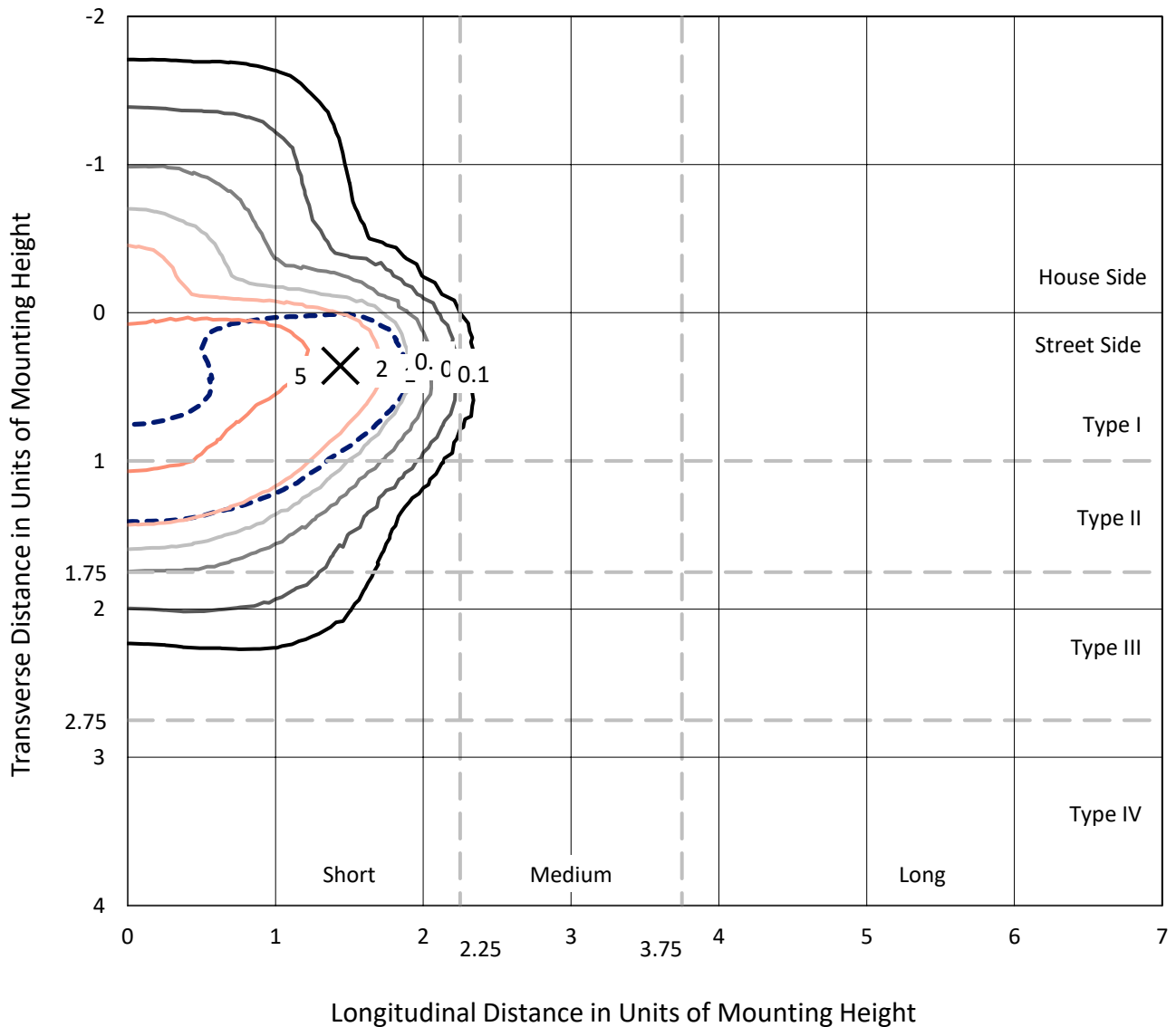
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

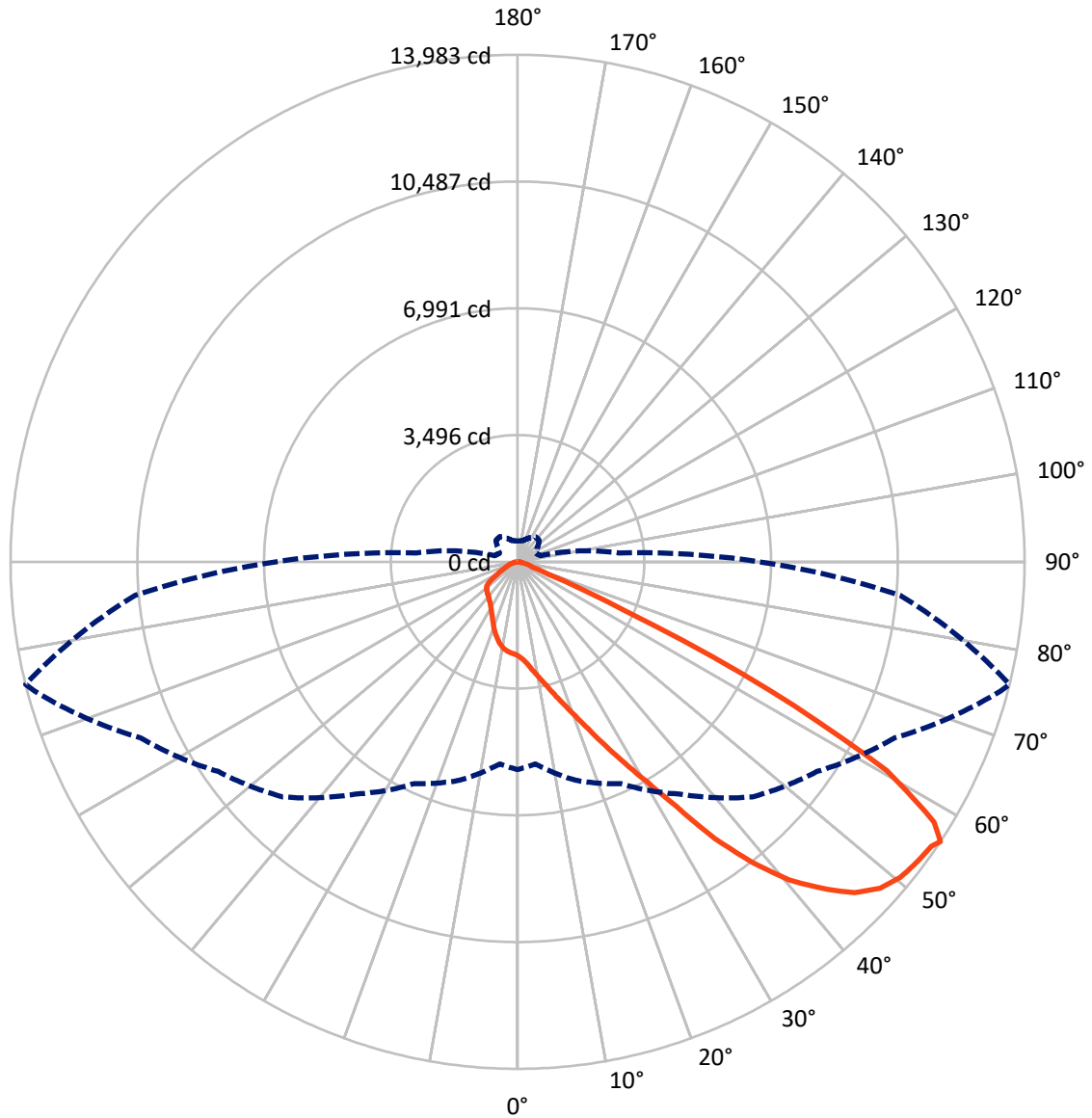
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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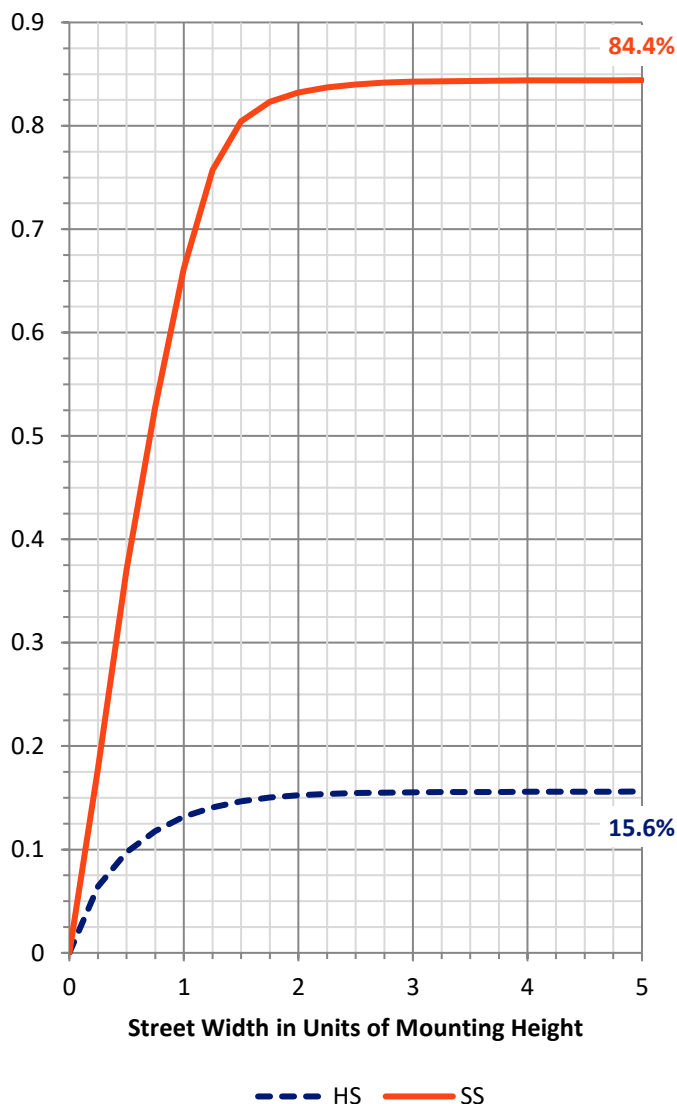
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2448.4	0.0	2448.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	13137.2	0.0	13137.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	15585.6	0.0	15585.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.3	1.7
10°-20°	839.6	5.4
20°-30°	1522.4	9.8
30°-40°	2625.4	16.8
40°-50°	4265.0	27.4
50°-60°	4495.5	28.8
60°-70°	1373.6	8.8
70°-80°	176.1	1.1
80°-90°	26.8	0.2
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°	15585.6	100.0
0°-180°	15585.6	100.0

Coefficient of Utilization



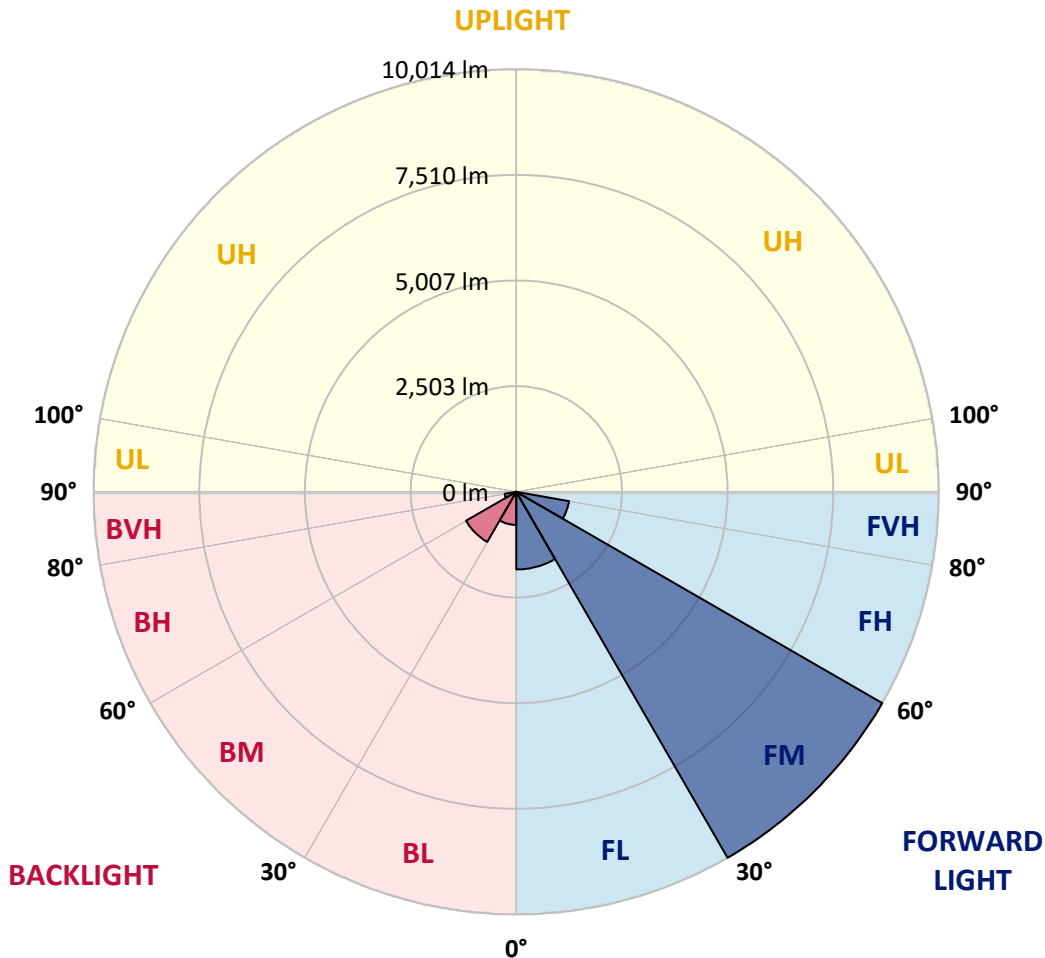
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1840.0	11.8			
FM (30°-60°)	10013.7	64.2			
FH (60°-80°)	1270.3	8.2			G1/1800
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	783.2	5.0	B2/1000		
BM (30°-60°)	1372.2	8.8	B2/2500		
BH (60°-80°)	279.3	1.8	B1/500		G1/500
BVH (80°-90°)	13.6	0.1			G1/100
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°	76°	85°
0°	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2
2.5°	2987.8	2918.9	2921.8	2916.0	2907.4	2875.8	2781.0	2766.7	2703.4	2686.2	2628.7
5°	3346.9	3286.6	3321.1	3269.4	3220.6	3191.8	3036.7	2964.8	2864.3	2826.9	2746.5
7.5°	3571.0	3542.3	3530.9	3533.7	3487.7	3415.9	3346.9	3188.9	3053.9	3025.2	2855.7
10°	3680.2	3663.0	3680.2	3671.6	3691.7	3700.3	3579.6	3484.8	3286.6	3237.8	2973.4
12.5°	3706.1	3740.5	3754.9	3792.2	3841.1	3924.4	3915.8	3786.5	3522.2	3490.6	3154.5
15°	3769.3	3798.0	3783.6	3844.0	3935.9	4076.7	4151.4	4131.3	3846.9	3789.4	3364.2
17.5°	3826.8	3775.0	3823.9	3944.5	4036.4	4251.9	4433.0	4516.3	4200.2	4134.2	3556.7
20°	3904.3	3889.9	3881.3	3941.6	4105.4	4392.7	4751.8	4904.1	4596.7	4527.7	3832.5
22.5°	4139.9	4142.8	4137.0	4048.0	4165.7	4490.3	5030.5	5406.8	5070.7	5013.2	4145.6
25°	4450.2	4412.8	4384.1	4312.3	4297.9	4579.5	5312.0	6021.7	5639.6	5599.3	4484.6
27.5°	4777.6	4777.6	4691.5	4625.4	4533.5	4800.7	5570.6	6619.2	6326.2	6271.6	4780.5
30°	5133.9	5154.0	5142.5	5001.7	4944.3	5042.0	5834.9	7383.4	7113.3	7044.4	5269.0
32.5°	5659.7	5616.5	5665.4	5547.6	5378.1	5464.3	6251.5	8067.2	8136.2	8038.4	5909.6
35°	6354.9	6329.1	6297.4	6105.0	5903.8	5972.8	6840.4	8908.9	9420.4	9371.5	6556.0
37.5°	6978.3	6964.0	6938.1	6806.0	6573.3	6656.6	7509.8	9785.2	10672.9	10512.0	7469.6
40°	7633.4	7710.9	7627.6	7509.8	7297.2	7481.1	8297.0	10305.1	11727.3	11531.9	8167.7
42.5°	8521.1	8460.8	8498.1	8282.7	8167.7	8368.9	9087.0	10825.2	12546.1	12313.4	8908.9
45°	9466.3	9469.1	9368.6	9299.6	9000.9	9219.2	9572.6	11112.5	13198.2	13017.2	9469.1
47.5°	10072.4	10069.6	10178.8	10287.9	9980.5	9765.0	9903.0	11385.4	13534.3	13451.0	9673.1
50°	9977.7	10006.4	10147.1	10555.2	10716.0	10425.8	10213.2	11305.0	13686.6	13678.0	9848.4
52.5°	8679.1	8773.9	9009.5	9598.4	10408.6	10767.7	10537.8	11454.4	13761.3	13775.6	10109.8
55°	6607.7	6659.4	7107.6	7823.0	8719.3	9949.0	10408.6	11572.1	13818.8	13844.6	10425.8
56°	5731.5	5593.6	6240.0	6748.5	7820.1	9164.6	10081.0	11480.2	13784.2	13982.5	10583.8
57.5°	4326.6	4234.7	4757.6	5392.4	6423.9	7843.1	9064.1	11046.4	13551.5	13548.7	10356.9
60°	2631.6	2539.7	2941.9	3315.4	3892.8	4829.4	6125.1	8796.9	11457.2	11698.6	8386.1
62.5°	1565.8	1623.2	2019.7	2246.7	2433.3	2531.0	3168.8	5228.7	7644.8	7817.2	5202.9
65°	1042.9	1063.0	1361.8	1735.2	1818.6	1447.9	1289.9	2117.3	3315.4	3209.0	2146.0
67.5°	643.5	689.5	913.6	1304.3	1445.1	1057.2	611.9	790.0	913.6	913.6	620.5
70°	390.7	413.7	609.1	887.8	991.1	680.9	445.3	445.3	439.6	431.0	370.6
72.5°	186.7	201.1	310.3	456.8	465.4	359.1	344.8	376.4	367.7	364.9	307.4
75°	80.4	86.2	109.2	143.7	163.7	152.3	209.7	270.1	278.7	270.1	221.2
77.5°	25.8	28.7	40.2	51.7	54.6	66.1	89.0	112.0	129.3	120.7	109.2
80°	2.9	5.7	11.5	25.8	40.2	51.7	66.1	74.7	83.3	83.3	77.6
82.5°	2.9	2.9	11.5	23.0	37.3	48.9	63.2	71.8	83.3	86.2	80.4
85°	0.0	2.9	8.6	20.1	31.6	31.6	28.7	28.7	20.1	20.1	20.1
87.5°	0.0	0.0	2.9	2.9	2.9	5.7	5.7	5.7	5.7	5.7	5.7
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°	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2	2594.2
2.5°	2617.3	2611.5	2533.9	2485.1	2459.2	2407.5	2375.9	2352.9	2335.7	2315.6	2318.5
5°	2651.7	2631.6	2502.3	2413.3	2307.0	2249.5	2200.6	2160.5	2134.6	2128.8	2117.3
7.5°	2749.3	2643.1	2447.7	2286.8	2151.8	2094.4	2051.3	2025.4	2036.9	2011.1	2031.2
10°	2824.0	2666.0	2381.7	2148.9	2014.0	1970.8	1947.9	1967.9	1996.6	1985.2	1970.8
12.5°	2916.0	2689.1	2275.3	2016.8	1890.4	1858.8	1899.0	1936.4	1993.8	2016.8	1988.0
15°	3019.4	2714.9	2140.3	1864.6	1784.1	1809.9	1878.9	1945.0	2002.4	2031.2	2048.4
17.5°	3145.9	2706.3	2008.2	1743.9	1683.5	1758.2	1841.5	1901.9	1988.0	2031.2	2019.7
20°	3263.6	2677.5	1861.7	1623.2	1626.1	1695.0	1763.9	1861.7	1907.6	1965.1	1945.0
22.5°	3375.7	2625.9	1709.4	1539.8	1539.8	1646.2	1680.6	1743.9	1784.1	1812.8	1809.9
25°	3533.7	2528.2	1583.0	1459.4	1493.9	1562.9	1591.6	1611.7	1594.5	1617.4	1620.3
27.5°	3645.7	2427.6	1479.6	1387.6	1450.8	1502.6	1493.9	1482.5	1442.2	1410.6	1430.7
30°	3766.4	2309.8	1390.5	1338.8	1373.2	1419.2	1384.7	1350.3	1287.1	1235.3	1238.2
32.5°	3938.8	2255.3	1312.9	1281.3	1327.3	1333.1	1295.7	1244.0	1180.8	1131.9	1129.1
35°	4260.5	2220.7	1246.8	1244.0	1252.6	1255.5	1218.1	1154.9	1129.1	1088.8	1103.2
37.5°	4582.3	2203.5	1200.9	1189.4	1186.5	1189.4	1146.3	1085.9	1134.8	1131.9	1137.7
40°	4993.1	2281.1	1134.8	1120.5	1123.3	1123.3	1068.7	1051.5	1137.7	1146.3	1149.1
42.5°	5409.7	2378.8	1091.7	1045.8	1057.2	1057.2	1028.5	1008.4	1068.7	1011.2	1002.6
45°	5771.7	2522.4	1045.8	971.1	999.8	1014.1	1005.5	971.1	933.7	836.0	836.0
47.5°	5889.5	2648.8	991.1	899.2	922.2	985.4	959.6	887.8	821.7	741.2	735.5
50°	6096.4	2786.7	948.1	815.9	864.7	942.3	916.4	844.6	769.9	712.5	715.3
52.5°	6308.9	2944.8	867.6	718.2	778.5	907.8	907.8	827.4	712.5	672.3	666.5
55°	6627.9	2939.0	724.0	589.0	695.2	856.1	870.5	741.2	637.8	606.2	606.2
56°	6673.8	2806.8	652.2	551.6	657.9	841.8	844.6	718.2	609.1	574.6	574.6
57.5°	6329.1	2533.9	571.7	505.7	611.9	815.9	818.8	698.1	586.1	537.2	531.5
60°	4869.6	1715.2	476.9	451.1	554.4	735.5	749.8	634.9	514.3	476.9	474.0
62.5°	2749.3	951.0	419.5	407.9	476.9	626.3	669.4	554.4	436.7	416.6	422.4
65°	1255.5	522.9	353.4	330.3	385.0	482.6	540.1	456.8	359.1	336.1	336.1
67.5°	459.7	356.3	301.7	261.4	270.1	313.1	350.5	295.9	238.4	204.0	212.6
70°	327.5	298.8	264.3	227.0	209.7	204.0	201.1	166.6	117.8	91.9	97.7
72.5°	264.3	247.0	221.2	192.5	163.7	137.9	117.8	86.2	54.6	37.3	34.5
75°	189.6	181.0	160.9	137.9	114.9	97.7	80.4	54.6	28.7	14.3	14.3
77.5°	97.7	97.7	94.8	86.2	71.8	57.5	46.0	31.6	17.2	5.7	5.7
80°	74.7	80.4	83.3	74.7	66.1	51.7	37.3	23.0	11.5	2.9	2.9
82.5°	71.8	83.3	89.0	77.6	66.1	48.9	37.3	23.0	11.5	2.9	2.9
85°	17.2	17.2	25.8	28.7	37.3	40.2	31.6	20.1	8.6	2.9	2.9
87.5°	5.7	5.7	5.7	5.7	5.7	5.7	2.9	2.9	2.9	2.9	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)