

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: P533028

Luminaire Tested: **GALN-SA8B-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31130 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 325
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

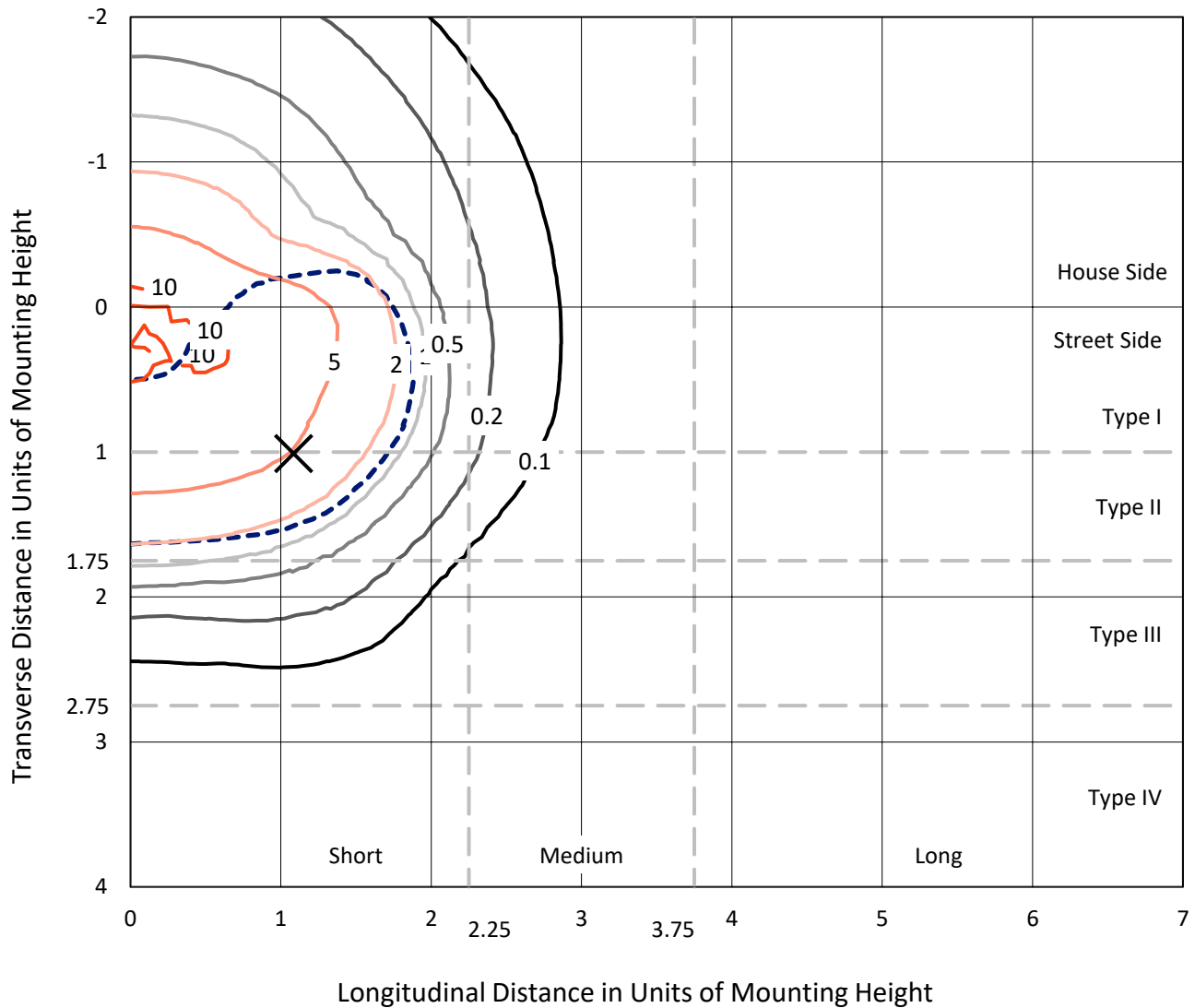


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Iso-Footcandle Lines of Horizontal Illumination

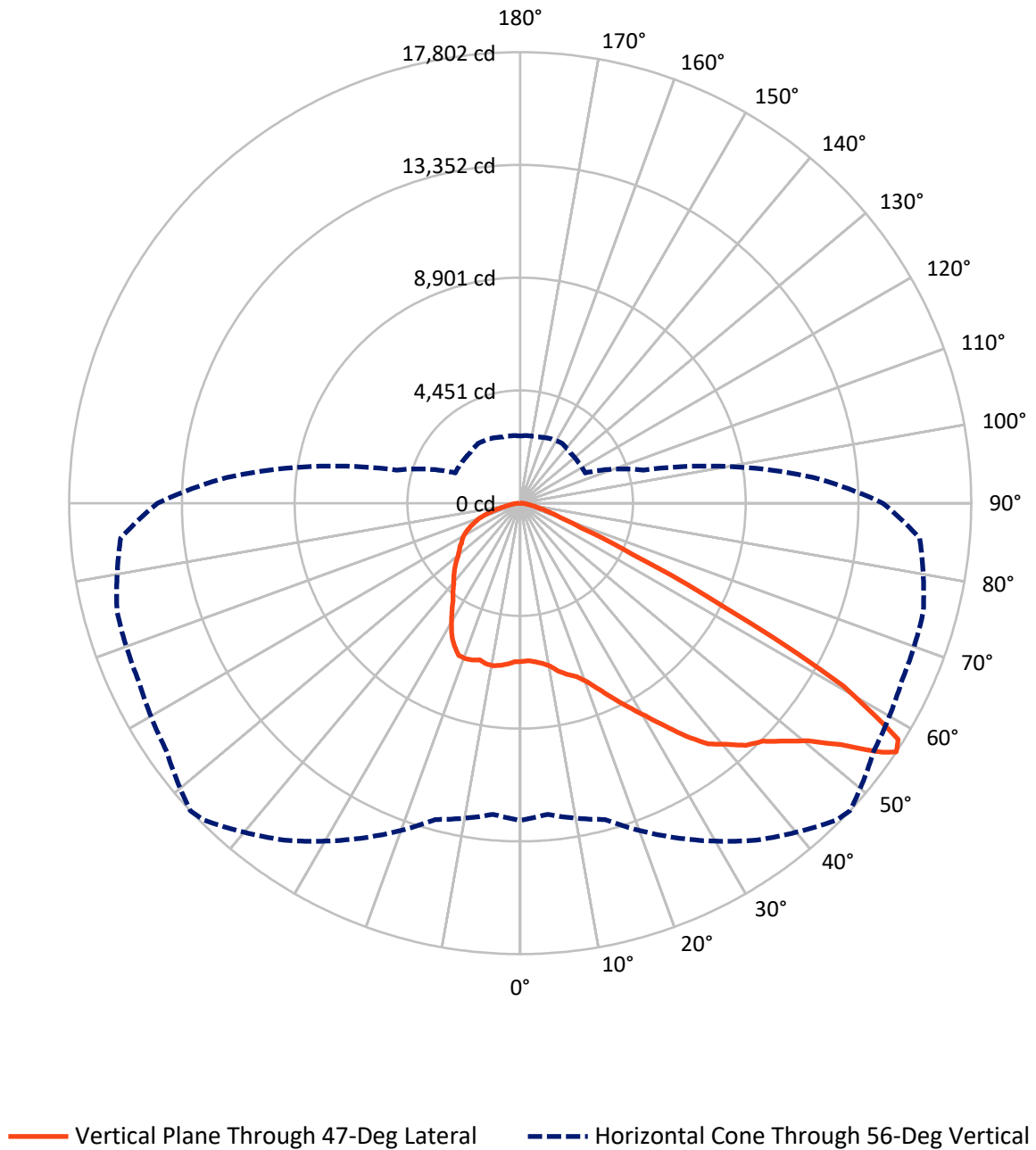
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9864.7	0.0	9864.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	21265.3	0.0	21265.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	31130.0	0.0	31130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.3	2.0
10°-20°	1922.0	6.2
20°-30°	3397.6	10.9
30°-40°	5103.0	16.4
40°-50°	7003.4	22.5
50°-60°	8343.6	26.8
60°-70°	3570.6	11.5
70°-80°	1010.5	3.2
80°-90°	170.0	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°	31130.0	100.0
0°-180°	31130.0	100.0

Coefficient of Utilization



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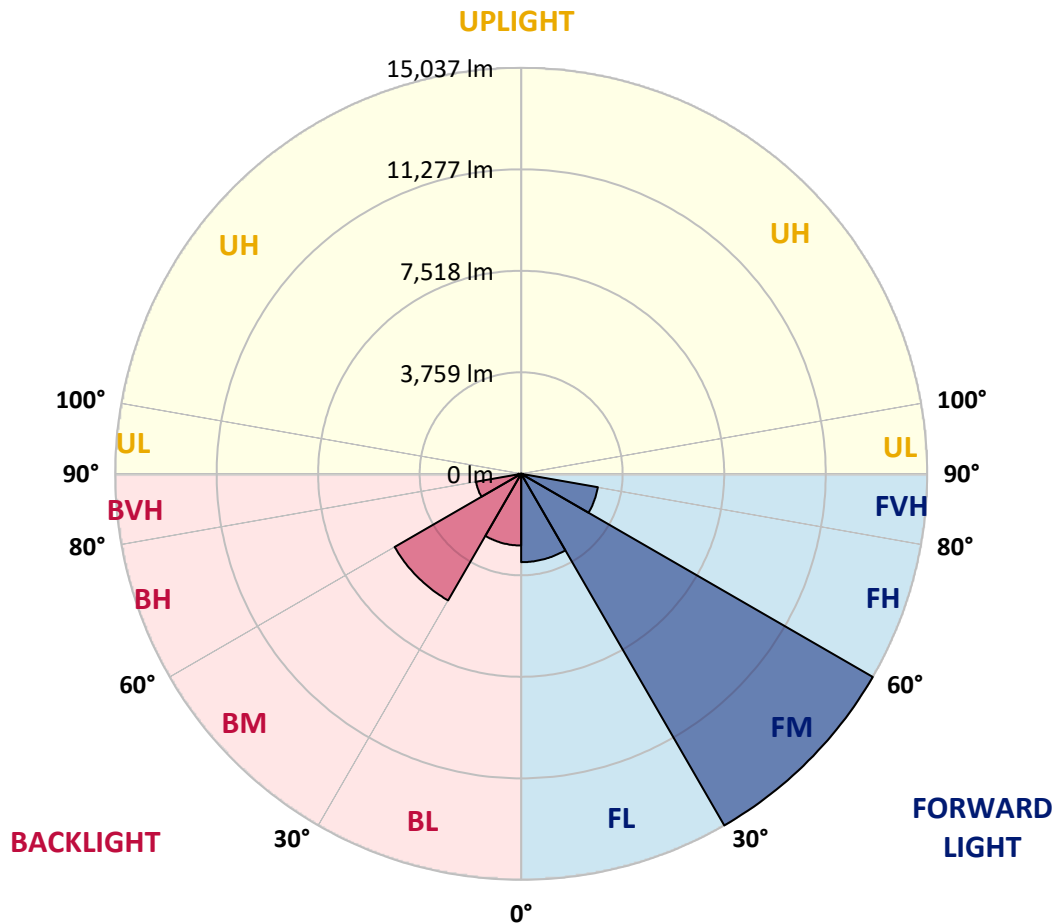
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3272.8	10.5			
FM	(30°-60°)	15036.5	48.3			
FH	(60°-80°)	2883.8	9.3			G2/5000
FVH	(80°-90°)	72.2	0.2			G1/100
BL	(0°-30°)	2656.0	8.5	B4/5000		
BM	(30°-60°)	5413.6	17.4	B4/8500		
BH	(60°-80°)	1697.3	5.5	B3/2500		G3/2500
BVH	(80°-90°)	97.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1
2.5°	6229.2	6217.3	6209.4	6272.9	6249.1	6253.1	6229.2	6253.1	6269.0	6233.2	6284.8
5°	6217.3	6253.1	6221.3	6241.2	6292.8	6276.9	6292.8	6340.4	6328.5	6316.6	6300.7
7.5°	6328.5	6332.5	6356.3	6364.2	6380.1	6364.2	6388.1	6431.7	6419.8	6352.3	6360.3
10°	6487.3	6495.3	6499.2	6542.9	6570.7	6574.7	6546.9	6507.2	6503.2	6594.5	6531.0
12.5°	6669.9	6650.1	6697.7	6713.6	6745.4	6781.1	6816.8	6733.5	6785.1	6789.0	6713.6
15°	6935.9	6955.8	6900.2	6900.2	6912.1	6916.1	7015.4	6975.6	6967.7	6924.0	6955.8
17.5°	7333.0	7198.0	7194.0	7138.4	7130.5	7162.2	7198.0	7229.7	7336.9	7249.6	7078.9
20°	7622.8	7654.6	7539.4	7471.9	7483.8	7555.3	7519.6	7662.5	7737.9	7595.0	7428.3
22.5°	8134.9	8027.8	8055.5	7904.7	7916.6	7992.0	7988.1	8134.9	8178.6	7952.3	7710.1
25°	8480.4	8452.6	8476.4	8357.3	8373.2	8432.7	8528.0	8770.2	8698.7	8448.6	7888.8
27.5°	8984.6	8929.0	8909.1	8865.5	8849.6	9008.4	9119.6	9377.6	9326.0	8960.8	8206.4
30°	9500.7	9465.0	9484.8	9306.2	9369.7	9707.1	9738.9	10092.3	10068.4	9425.3	8559.8
32.5°	9858.0	9877.9	9913.6	9814.3	10096.2	10366.2	10473.4	10874.4	10894.2	10223.3	9242.6
35°	10433.7	10366.2	10386.1	10501.2	10632.2	11124.5	11299.2	11565.2	11732.0	11061.0	9897.7
37.5°	10795.0	10866.4	10783.1	10965.7	11307.1	11898.7	12057.5	12331.5	12506.1	11886.8	10791.0
40°	11358.8	11243.6	11303.2	11434.2	11783.6	12553.8	12510.1	12792.0	12847.6	12589.5	11624.8
42.5°	11966.2	11910.6	11827.2	12125.0	12418.8	12978.6	13065.9	12934.9	13216.8	13276.4	12815.8
45°	12692.7	12760.2	12772.1	12780.1	13038.1	13526.5	13407.4	13292.2	13617.8	14050.6	13554.3
47.5°	13367.7	13153.3	13308.1	13522.5	13887.8	13891.7	14030.7	13756.8	14102.2	14487.3	14221.3
50°	13594.0	13490.8	13697.2	14102.2	14665.9	14725.5	14741.4	14352.3	14530.9	14836.7	14451.5
52.5°	13506.6	13470.9	13998.9	14626.2	15452.0	15753.8	15833.2	15352.8	15452.0	15313.1	14959.7
55°	13089.8	13197.0	13729.0	15007.4	16273.9	17206.9	17357.7	16750.3	16119.0	16226.2	15837.1
56°	12518.1	12331.5	12927.0	14574.6	16238.1	17679.3	17802.4	17044.1	16615.3	16476.3	15829.2
57.5°	10620.3	10378.1	11160.2	13113.6	15336.9	17500.7	17592.0	17167.2	16531.9	16250.0	14673.9
60°	6217.3	6336.4	7329.0	9044.1	11831.2	14348.3	14654.0	14963.7	14538.9	13276.4	10922.0
62.5°	3001.5	2926.0	3636.7	5185.1	7209.9	9159.3	9067.9	9937.4	10413.8	9433.2	6896.2
65°	1572.2	1564.3	1985.1	2830.8	3962.3	4811.9	4895.3	5363.7	6018.8	4859.5	3501.7
67.5°	1155.3	1187.1	1397.5	1989.1	2548.9	2600.5	2588.6	2822.8	2886.3	2441.7	2151.9
70°	905.2	921.1	1075.9	1512.6	1897.8	1699.2	1663.5	1691.3	1877.9	1957.3	1862.0
72.5°	655.1	671.0	802.0	1020.3	1187.1	1159.3	1183.1	1338.0	1568.2	1651.6	1552.3
75°	436.7	448.6	520.1	623.3	702.7	758.3	802.0	980.6	1195.0	1242.7	1195.0
77.5°	301.7	313.6	361.3	440.7	448.6	484.4	500.2	583.6	714.6	774.2	742.4
80°	170.7	170.7	194.5	226.3	277.9	325.6	333.5	401.0	460.5	500.2	508.2
82.5°	79.4	83.4	103.2	139.0	182.6	226.3	234.2	277.9	321.6	361.3	373.2
85°	39.7	43.7	59.6	83.4	111.2	135.0	131.0	135.0	142.9	135.0	139.0
87.5°	11.9	11.9	15.9	19.9	15.9	19.9	19.9	23.8	27.8	31.8	35.7
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°	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1	6253.1
2.5°	6288.8	6300.7	6221.3	6296.7	6269.0	6265.0	6320.6	6312.6	6332.5	6324.5	6276.9
5°	6292.8	6265.0	6348.4	6272.9	6308.7	6384.1	6332.5	6451.6	6392.0	6431.7	6344.4
7.5°	6415.8	6423.8	6407.9	6439.7	6423.8	6459.5	6431.7	6459.5	6411.9	6415.8	6495.3
10°	6523.0	6499.2	6527.0	6487.3	6515.1	6503.2	6439.7	6419.8	6435.7	6415.8	6467.5
12.5°	6721.6	6677.9	6658.0	6610.4	6578.6	6459.5	6360.3	6304.7	6380.1	6392.0	6368.2
15°	6924.0	6928.0	6836.7	6729.5	6531.0	6352.3	6376.1	6396.0	6396.0	6427.8	6368.2
17.5°	7051.1	7051.1	6967.7	6753.3	6550.8	6447.6	6423.8	6360.3	6304.7	6296.7	6292.8
20°	7273.4	7205.9	7015.4	6749.3	6542.9	6495.3	6316.6	6165.7	6050.6	6010.9	6006.9
22.5°	7527.5	7356.8	7090.8	6757.3	6531.0	6463.5	6130.0	5903.7	5697.2	5609.9	5621.8
25°	7761.7	7487.8	7134.5	6721.6	6487.3	6161.8	5788.6	5474.9	5260.5	5189.1	5153.3
27.5°	7924.5	7626.8	7134.5	6753.3	6324.5	5824.3	5443.1	5042.2	4855.6	4807.9	4815.9
30°	8142.9	7801.5	7257.5	6685.8	5999.0	5387.6	4931.0	4669.0	4557.8	4518.1	4545.9
32.5°	8655.0	8258.0	7428.3	6523.0	5613.9	4950.8	4581.6	4434.7	4271.9	4192.5	4164.7
35°	9210.9	8690.8	7595.0	6249.1	5181.1	4553.8	4323.6	4188.6	3994.0	3906.7	3922.6
37.5°	9997.0	9246.6	7606.9	5796.5	4712.6	4331.5	4121.1	3910.7	3751.8	3616.9	3577.2
40°	11057.0	10004.9	7579.1	5320.1	4335.5	4069.5	3914.6	3652.6	3473.9	3378.6	3398.5
42.5°	11990.0	10894.2	7464.0	4780.1	3994.0	3890.8	3716.1	3458.0	3283.4	3184.1	3176.2
45°	12776.1	11549.3	7245.6	4319.6	3708.2	3692.3	3489.8	3291.3	3152.3	3061.0	3100.7
47.5°	13502.7	12077.4	6916.1	3859.0	3446.1	3477.9	3283.4	3160.3	3072.9	2989.6	2985.6
50°	13764.7	12069.4	6626.3	3477.9	3235.7	3219.8	3211.9	3080.9	2989.6	2918.1	2949.9
52.5°	14201.4	12204.4	6312.6	3215.9	3045.1	3049.1	3076.9	2981.6	2878.4	2834.7	2874.4
55°	14828.7	12224.3	5621.8	2910.2	2886.3	2914.1	2914.1	2850.6	2763.3	2727.5	2707.7
56°	14316.6	11632.7	5042.2	2830.8	2806.9	2806.9	2882.4	2810.9	2703.7	2675.9	2652.1
57.5°	13204.9	10191.5	4220.3	2735.5	2699.7	2755.3	2795.0	2719.6	2620.3	2580.6	2604.5
60°	9107.6	6896.2	3172.2	2529.0	2529.0	2620.3	2652.1	2540.9	2497.3	2493.3	2461.5
62.5°	5316.1	4017.8	2481.4	2342.4	2350.4	2425.8	2449.6	2386.1	2330.5	2398.0	2429.8
65°	2818.8	2398.0	2128.0	2143.9	2147.9	2207.4	2310.7	2306.7	2302.7	2322.6	2326.5
67.5°	2040.7	1993.0	1933.5	1917.6	1925.5	1969.2	2072.4	2151.9	2147.9	2100.2	2064.5
70°	1818.4	1750.9	1715.1	1719.1	1687.3	1738.9	1822.3	1873.9	1782.6	1727.0	1703.2
72.5°	1512.6	1492.8	1469.0	1472.9	1409.4	1397.5	1302.2	1302.2	1278.4	1262.5	1290.3
75°	1155.3	1147.4	1159.3	1139.4	1072.0	1000.5	944.9	893.3	813.9	782.1	766.2
77.5°	730.5	754.3	782.1	738.5	710.7	659.1	603.5	551.9	488.3	452.6	452.6
80°	496.3	516.1	536.0	528.0	496.3	448.6	405.0	349.4	305.7	277.9	273.9
82.5°	377.2	393.1	420.8	389.1	357.3	317.6	281.9	242.2	202.5	170.7	170.7
85°	135.0	154.8	170.7	186.6	198.5	202.5	174.7	142.9	115.1	91.3	87.3
87.5°	35.7	39.7	43.7	39.7	39.7	39.7	43.7	39.7	35.7	27.8	27.8
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)