

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: P531140

Luminaire Tested: **GALN-SA6B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24195 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

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



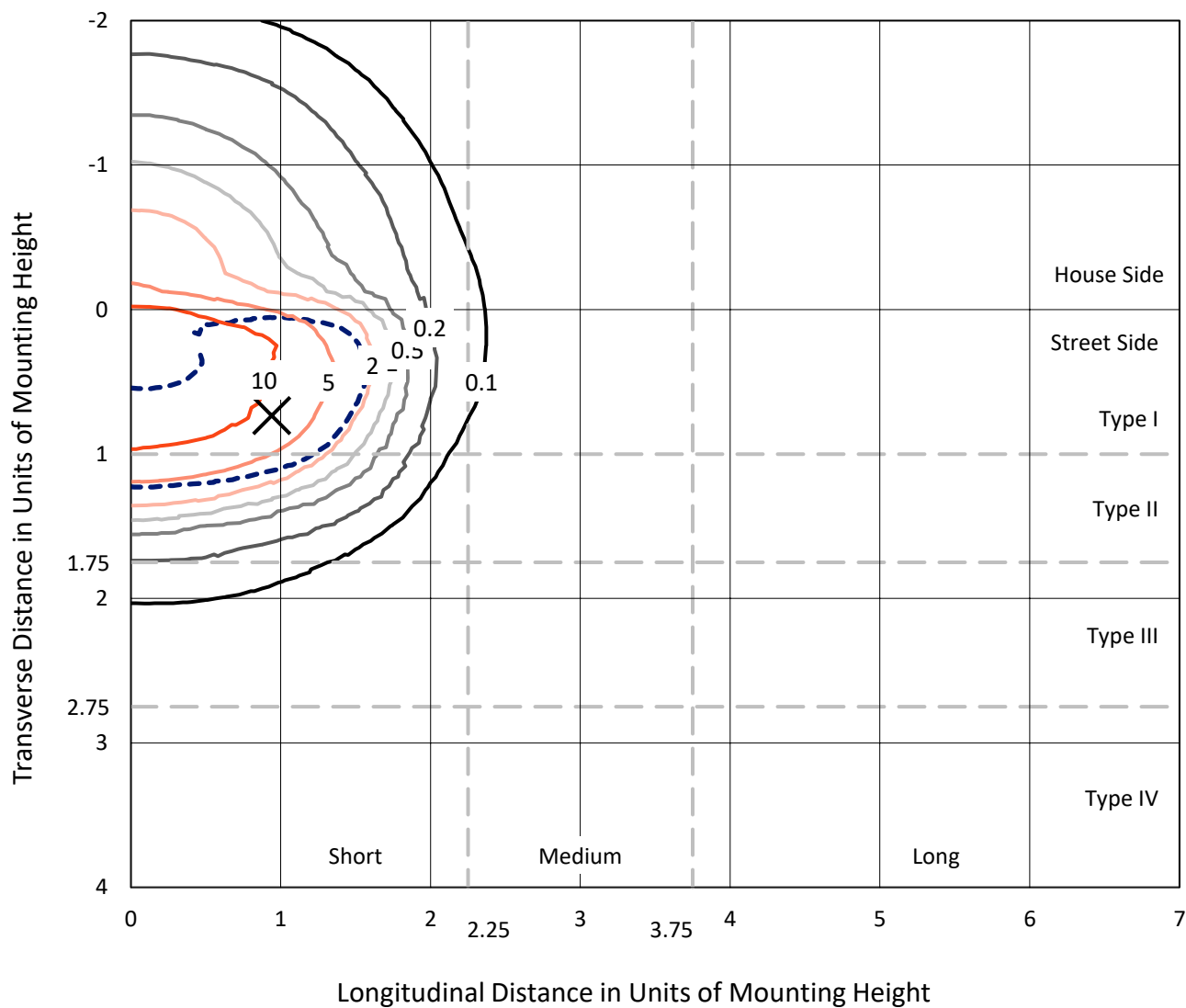
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

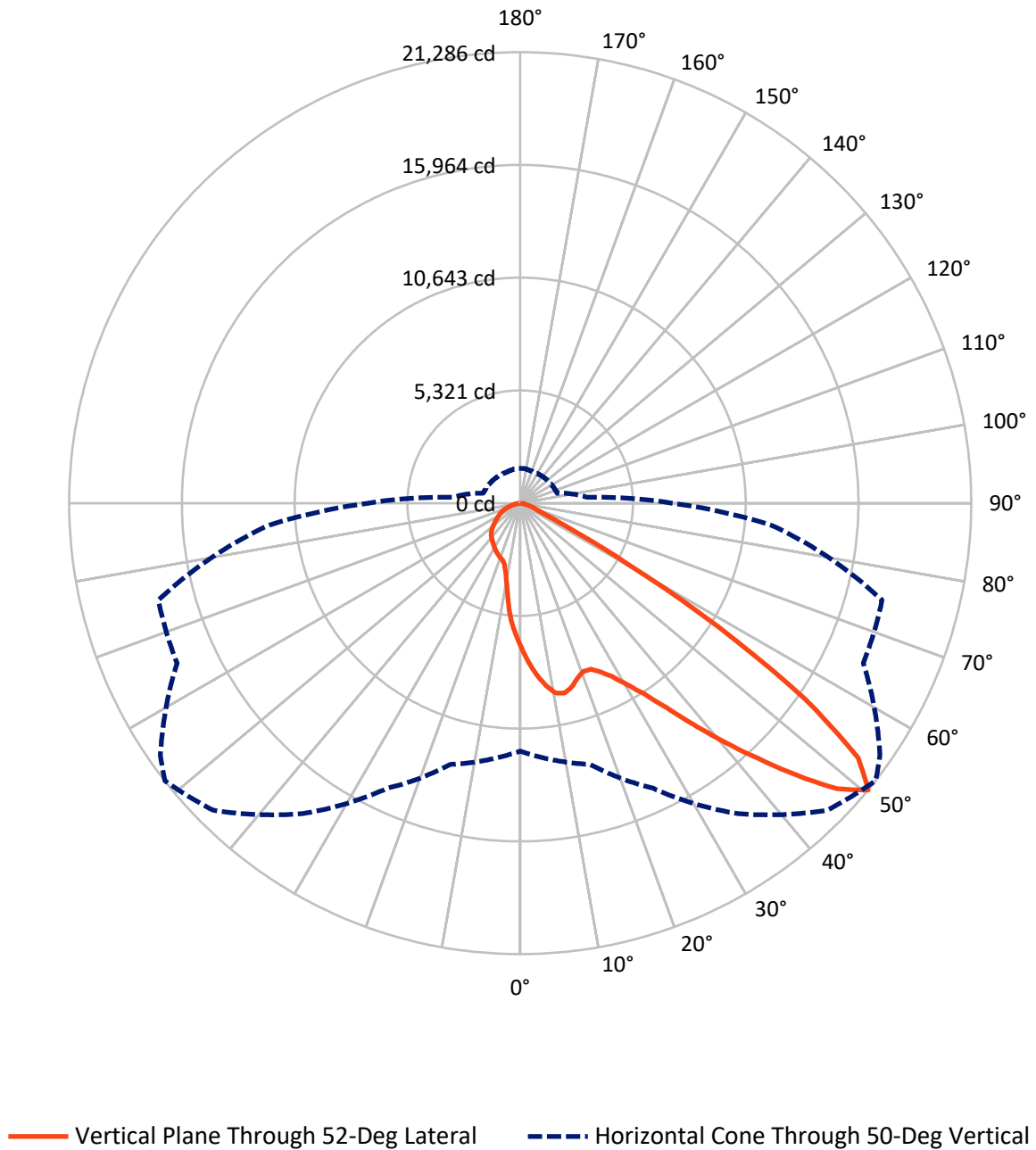
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	4548.1	0.0	4548.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19646.9	0.0	19646.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	24195.0	0.0	24195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.6	2.6
10°-20°	1684.8	7.0
20°-30°	2838.0	11.7
30°-40°	4762.5	19.7
40°-50°	7285.4	30.1
50°-60°	5311.7	22.0
60°-70°	1182.1	4.9
70°-80°	426.4	1.8
80°-90°	75.5	0.3
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°	24195.0	100.0
0°-180°	24195.0	100.0

Coefficient of Utilization



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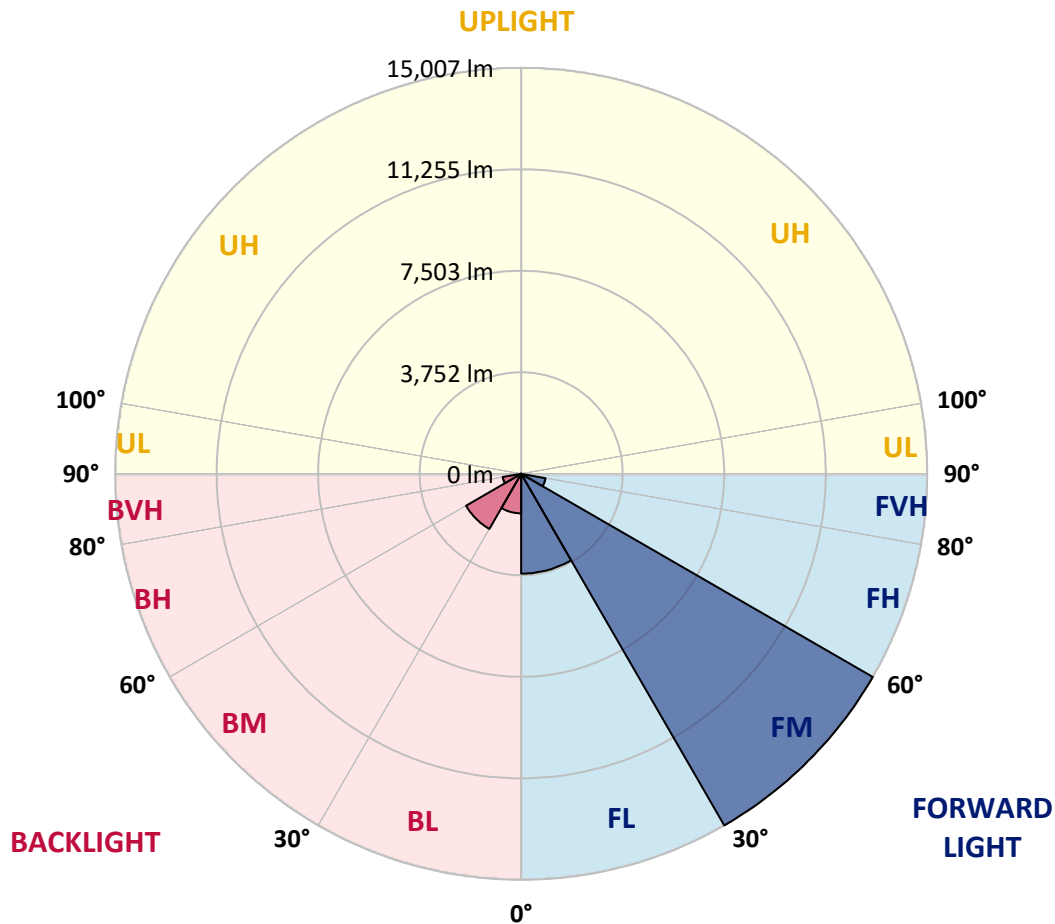
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3690.6	15.3			
FM	(30°-60°)	15007.0	62.0			
FH	(60°-80°)	915.6	3.8			G1/1800
FVH	(80°-90°)	33.8	0.1			G1/100
BL	(0°-30°)	1460.9	6.0	B3/2500		
BM	(30°-60°)	2352.6	9.7	B2/2500		
BH	(60°-80°)	692.9	2.9	B2/1000		G2/1000
BVH	(80°-90°)	41.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2
2.5°	8030.2	7875.7	7893.2	7782.4	7662.8	7627.9	7505.4	7388.8	7301.3	7114.7	6942.6
5°	8776.7	8730.1	8660.1	8572.6	8482.2	8260.6	8135.2	7989.4	7668.7	7380.0	7094.3
7.5°	8884.6	8875.8	8913.7	8913.7	8945.8	8861.3	8683.4	8581.3	8240.2	7770.7	7240.1
10°	8126.5	8152.7	8336.4	8575.5	8907.9	9138.3	9109.1	9082.9	8709.6	8068.2	7412.1
12.5°	7522.9	7464.6	7572.5	7776.6	8275.2	8832.1	9208.2	9211.2	9114.9	8543.4	7537.5
15°	7181.7	7222.6	7251.7	7347.9	7724.1	8368.5	9030.4	9225.7	9648.5	8878.8	7735.7
17.5°	7400.4	7263.4	7257.5	7280.9	7473.3	7957.4	8700.9	9036.2	9940.1	9310.3	7980.7
20°	7686.2	7683.3	7601.6	7572.5	7569.5	8001.1	8485.1	8940.0	10094.7	9870.1	8228.5
22.5°	8187.7	8187.7	8053.6	7989.4	7852.4	8205.2	8514.3	8823.4	10351.3	10255.0	8348.1
25°	9027.5	8890.4	8660.1	8502.6	8423.9	8549.3	8823.4	9100.4	10575.8	10663.3	8595.9
27.5°	9803.1	9587.3	9473.6	9202.4	9097.4	9024.6	9275.3	9555.2	10838.2	11298.9	8730.1
30°	10683.7	10645.8	10441.7	10091.8	9832.2	9698.1	9928.5	10205.5	11319.3	11949.1	9039.1
32.5°	12258.2	11914.2	11637.2	11208.5	10785.7	10500.0	10727.4	10911.1	12118.3	12628.5	9377.4
35°	13958.2	13847.4	13369.2	12596.5	11949.1	11692.6	11826.7	11963.7	13048.4	13666.6	9946.0
37.5°	15628.9	15477.3	15083.7	14433.4	13646.2	13124.2	13220.5	13380.8	14092.3	15066.2	10639.9
40°	16830.3	16643.7	16445.4	16349.2	15567.7	14853.3	14797.9	14838.8	15503.6	16378.3	11409.7
42.5°	16917.8	17148.1	17209.3	17597.1	17413.4	16827.4	16486.2	16495.0	16850.7	17675.9	12188.2
45°	16734.1	16521.2	16973.2	18031.6	18638.1	18912.2	18337.8	18264.9	17684.6	18428.2	12576.1
47.5°	14806.7	14865.0	15628.9	17302.6	19055.1	20279.7	20145.6	19903.6	18130.7	18401.9	12514.8
50°	11704.2	12057.0	12765.6	14850.4	17888.7	20495.5	21285.7	20725.9	17865.4	17678.8	11890.8
52.5°	7794.1	7939.9	8406.4	11097.7	14383.9	18320.3	19973.6	20101.9	17620.5	16731.1	11100.6
55°	3469.9	3458.2	4114.3	5796.7	9024.6	13940.7	16320.0	17101.5	16678.7	15766.0	10330.9
57.5°	1469.6	1519.2	1787.4	2504.7	4437.9	8412.2	11056.9	11742.1	12826.8	12946.4	7925.3
60°	994.3	1000.1	1073.0	1253.8	1857.4	3951.0	5799.6	6621.9	7397.5	7345.0	4204.7
62.5°	781.4	801.9	857.3	930.2	1102.2	1793.2	2595.1	3052.9	3102.5	2609.7	1595.0
65°	667.7	670.6	726.0	787.3	863.1	1043.9	1250.9	1274.2	1288.8	1242.2	1172.2
67.5°	551.1	556.9	600.7	670.6	740.6	798.9	857.3	886.4	953.5	1084.7	1067.2
70°	437.4	446.1	484.0	542.3	606.5	641.5	714.4	740.6	801.9	903.9	944.7
72.5°	332.4	335.3	367.4	408.2	466.5	501.5	562.8	591.9	632.7	720.2	758.1
75°	239.1	247.8	271.2	291.6	300.3	323.7	382.0	414.1	472.4	510.3	513.2
77.5°	125.4	131.2	137.0	137.0	166.2	209.9	247.8	265.3	306.2	335.3	320.7
80°	49.6	52.5	67.1	90.4	116.6	151.6	177.9	186.6	221.6	239.1	247.8
82.5°	29.2	32.1	43.7	64.1	84.6	107.9	128.3	137.0	160.4	180.8	186.6
85°	14.6	17.5	26.2	40.8	55.4	67.1	64.1	61.2	61.2	58.3	61.2
87.5°	5.8	5.8	8.7	8.7	8.7	11.7	14.6	14.6	14.6	17.5	17.5
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°	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2	6820.2
2.5°	6828.9	6712.3	6604.4	6406.1	6190.3	6129.1	5878.4	5788.0	5723.8	5648.0	5624.7
5°	6863.9	6709.4	6362.4	5962.9	5645.1	5236.9	4968.6	4679.9	4470.0	4417.5	4402.9
7.5°	6936.8	6671.5	6073.7	5470.1	4819.9	4265.9	3843.1	3615.7	3414.5	3402.8	3382.4
10°	7018.4	6557.7	5758.8	4811.1	3980.1	3466.9	3213.3	3114.1	3064.6	3052.9	3047.1
12.5°	7085.5	6534.4	5406.0	4169.7	3385.3	3076.2	3000.4	2991.7	3012.1	3017.9	3029.6
15°	7114.7	6441.1	4980.3	3595.2	3015.0	2901.3	2933.3	2968.3	2982.9	3020.8	2991.7
17.5°	7170.1	6321.6	4455.4	3140.4	2808.0	2828.4	2883.8	2924.6	2947.9	2974.2	2936.3
20°	7199.2	6213.7	3962.6	2869.2	2735.1	2773.0	2848.8	2880.9	2910.0	2921.7	2877.9
22.5°	7173.0	5992.1	3528.2	2650.5	2665.1	2714.7	2781.7	2816.7	2799.2	2752.6	2726.3
25°	7103.0	5680.1	3076.2	2510.5	2565.9	2653.4	2705.9	2679.7	2647.6	2621.3	2612.6
27.5°	7100.1	5298.1	2749.6	2382.2	2481.4	2600.9	2583.4	2560.1	2574.7	2554.3	2531.0
30°	7114.7	4927.8	2481.4	2309.4	2420.2	2478.5	2498.9	2475.6	2493.1	2455.1	2466.8
32.5°	7038.9	4566.2	2306.4	2224.8	2347.3	2344.3	2411.4	2428.9	2388.1	2309.4	2321.0
35°	7070.9	4274.6	2157.7	2186.9	2265.6	2265.6	2318.1	2297.7	2189.8	2143.1	2154.8
37.5°	7292.5	3988.9	2084.8	2134.4	2186.9	2210.2	2192.7	2105.2	2079.0	2079.0	2084.8
40°	7502.5	3743.9	2041.1	2122.7	2114.0	2128.6	2000.3	2009.0	2009.0	2011.9	1997.4
42.5°	7689.1	3577.7	2006.1	2052.8	2067.3	1991.5	1912.8	1904.0	1924.5	1921.5	1909.9
45°	7756.2	3440.7	1956.5	1974.0	1985.7	1860.3	1822.4	1804.9	1828.2	1837.0	1848.6
47.5°	7499.6	3327.0	1901.1	1866.1	1842.8	1761.2	1711.6	1679.5	1708.7	1758.3	1769.9
50°	1710.1	3178.3	1813.7	1746.6	1697.0	1662.0	1627.0	1595.0	1615.4	1650.4	1641.6
52.5°	6683.1	2945.0	1702.9	1632.9	1548.3	1557.1	1525.0	1507.5	1519.2	1519.2	1510.4
55°	5989.2	2420.2	1516.2	1466.7	1396.7	1420.0	1425.8	1402.5	1379.2	1399.6	1382.1
57.5°	4088.0	1708.7	1353.0	1353.0	1283.0	1315.0	1312.1	1256.7	1201.3	1207.2	1195.5
60°	2364.8	1361.7	1248.0	1236.3	1163.4	1189.7	1195.5	1157.6	1073.0	1078.9	1067.2
62.5°	1344.2	1163.4	1090.5	1073.0	1058.5	1081.8	1081.8	1032.2	959.3	965.1	953.5
65°	1143.0	1078.9	973.9	971.0	965.1	971.0	947.7	895.2	831.0	804.8	807.7
67.5°	1038.0	997.2	895.2	868.9	851.4	848.5	804.8	755.2	726.0	702.7	699.8
70°	909.7	877.7	801.9	766.9	749.4	708.6	664.8	632.7	591.9	580.3	591.9
72.5°	720.2	717.3	688.1	650.2	612.3	580.3	542.3	498.6	460.7	452.0	431.5
75°	498.6	504.4	510.3	504.4	472.4	431.5	387.8	352.8	306.2	279.9	274.1
77.5°	326.6	335.3	344.1	332.4	312.0	274.1	244.9	201.2	166.2	145.8	142.9
80°	239.1	250.8	256.6	247.8	224.5	195.4	163.3	128.3	102.1	84.6	84.6
82.5°	183.7	195.4	201.2	186.6	163.3	140.0	116.6	90.4	70.0	55.4	52.5
85°	64.1	61.2	72.9	75.8	90.4	84.6	70.0	52.5	40.8	29.2	26.2
87.5°	17.5	17.5	20.4	20.4	17.5	14.6	14.6	14.6	11.7	8.7	8.7
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)