

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: P532326

Luminaire Tested: **GALN-SA7C-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532326
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-SA7C-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 33176 lumens
Efficiency: N/A
Efficacy: 88.0 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

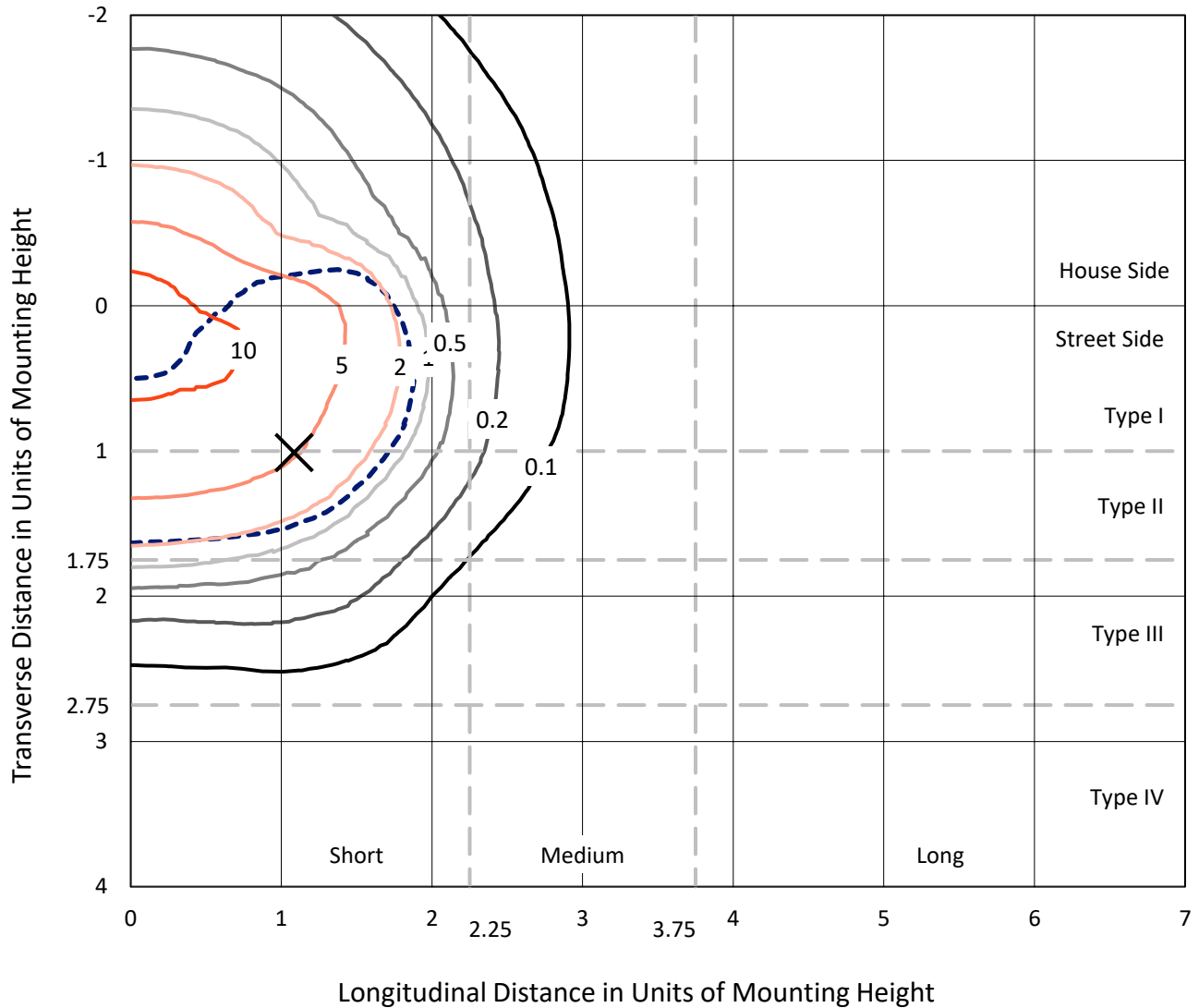
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532326
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Iso-Footcandle Lines of Horizontal Illumination

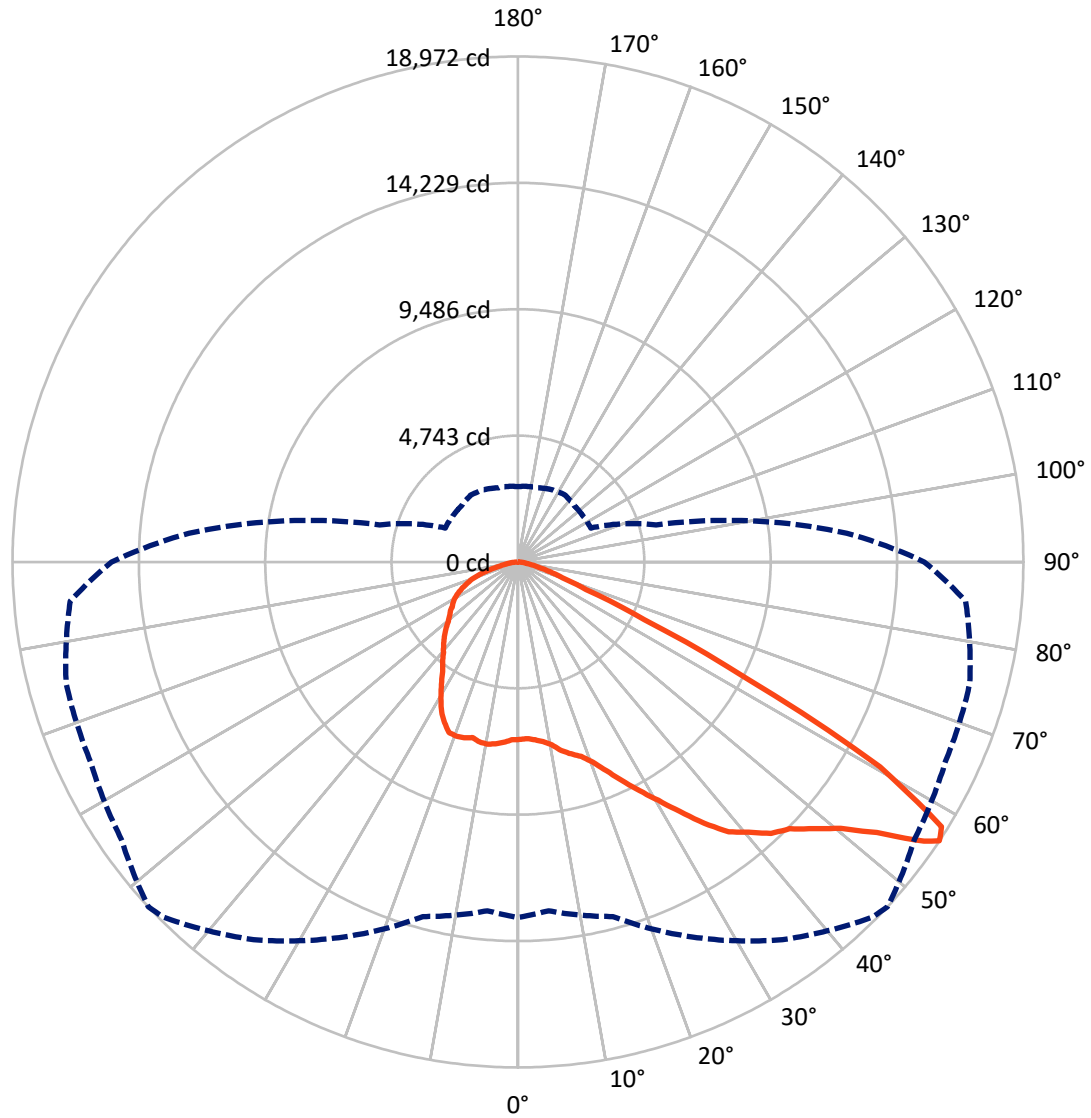
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA7C-830-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10513.1	0.0	10513.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	22662.9	0.0	22662.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	33176.0	0.0	33176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.3	2.0
10°-20°	2048.3	6.2
20°-30°	3620.9	10.9
30°-40°	5438.4	16.4
40°-50°	7463.7	22.5
50°-60°	8892.0	26.8
60°-70°	3805.2	11.5
70°-80°	1076.9	3.2
80°-90°	181.2	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°	33176.0	100.0
0°-180°	33176.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532326

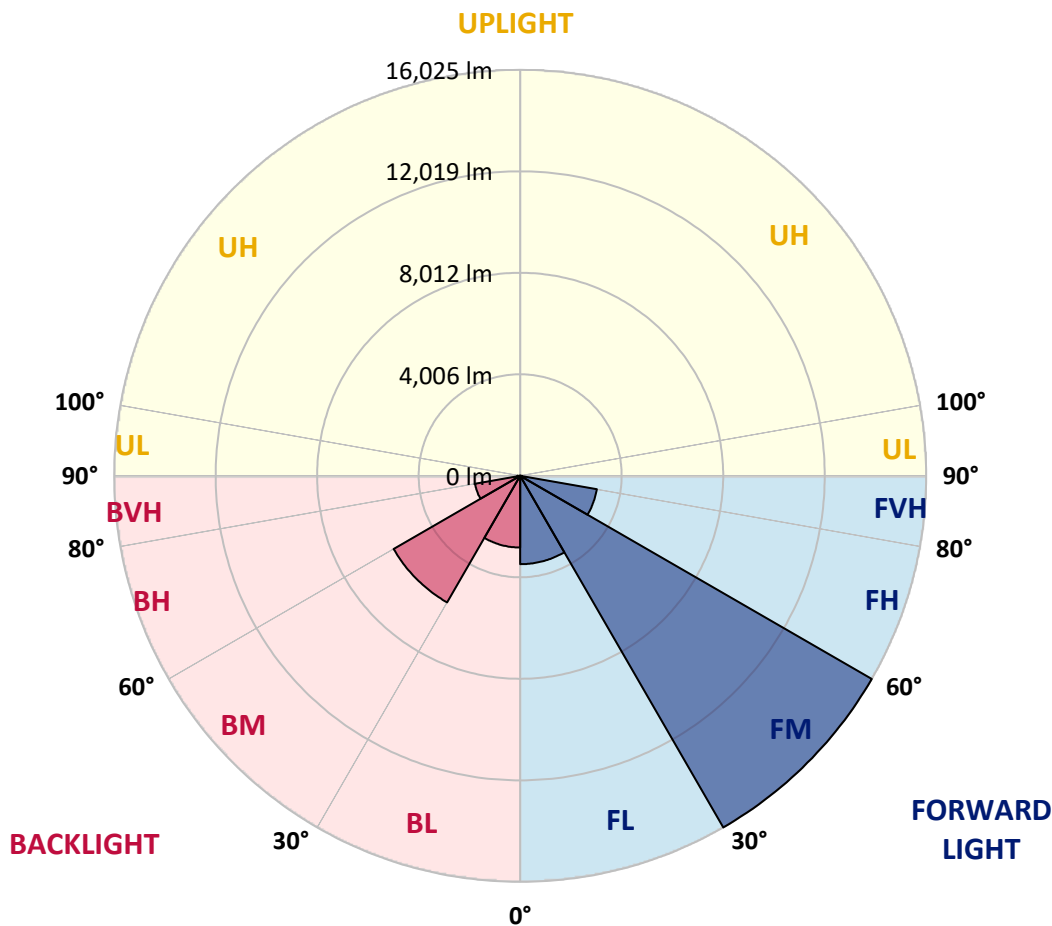
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3487.9	10.5			
FM (30°-60°)	16024.8	48.3			
FH (60°-80°)	3073.3	9.3			G2/5000
FVH (80°-90°)	76.9	0.2			G1/100
BL (0°-30°)	2830.6	8.5	B4/5000		
BM (30°-60°)	5769.4	17.4	B4/8500		
BH (60°-80°)	1808.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	104.3	0.3			G2/225
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°	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1
2.5°	6638.7	6626.0	6617.5	6685.2	6659.8	6664.1	6638.7	6664.1	6681.0	6642.9	6697.9
5°	6626.0	6664.1	6630.2	6651.4	6706.4	6689.4	6706.4	6757.1	6744.4	6731.7	6714.8
7.5°	6744.4	6748.7	6774.1	6782.5	6799.4	6782.5	6807.9	6854.5	6841.8	6769.8	6778.3
10°	6913.7	6922.2	6926.4	6972.9	7002.5	7006.8	6977.2	6934.8	6930.6	7027.9	6960.2
12.5°	7108.3	7087.2	7137.9	7154.9	7188.7	7226.8	7264.9	7176.0	7231.0	7235.3	7154.9
15°	7391.8	7413.0	7353.7	7353.7	7366.4	7370.7	7476.4	7434.1	7425.7	7379.1	7413.0
17.5°	7814.9	7671.1	7666.8	7607.6	7599.1	7633.0	7671.1	7704.9	7819.2	7726.1	7544.1
20°	8123.8	8157.6	8034.9	7963.0	7975.7	8051.9	8013.8	8166.1	8246.5	8094.2	7916.5
22.5°	8669.6	8555.4	8585.0	8424.2	8436.9	8517.3	8513.1	8669.6	8716.2	8475.0	8216.9
25°	9037.7	9008.1	9033.5	8906.6	8923.5	8986.9	9088.5	9346.6	9270.4	9003.9	8407.3
27.5°	9575.1	9515.8	9494.7	9448.1	9431.2	9600.5	9718.9	9994.0	9939.0	9549.7	8745.8
30°	10125.1	10087.0	10108.2	9917.8	9985.5	10345.1	10379.0	10755.6	10730.2	10044.7	9122.3
32.5°	10505.9	10527.1	10565.2	10459.4	10759.8	11047.5	11161.8	11589.1	11610.3	10895.2	9850.1
35°	11119.4	11047.5	11068.7	11191.4	11331.0	11855.7	12041.8	12325.3	12503.0	11788.0	10548.2
37.5°	11504.5	11580.6	11491.8	11686.4	12050.3	12680.7	12850.0	13141.9	13328.1	12668.0	11500.2
40°	12105.3	11982.6	12046.1	12185.7	12558.0	13378.9	13332.3	13632.7	13692.0	13417.0	12388.8
42.5°	12752.7	12693.4	12604.6	12921.9	13235.0	13831.6	13924.7	13785.1	14085.5	14148.9	13658.1
45°	13527.0	13598.9	13611.6	13620.0	13895.1	14415.5	14288.6	14165.9	14512.8	14974.0	14445.1
47.5°	14246.3	14017.8	14182.8	14411.3	14800.5	14804.8	14952.9	14660.9	15029.0	15439.4	15156.0
50°	14487.4	14377.4	14597.4	15029.0	15629.8	15693.3	15710.2	15295.6	15486.0	15811.8	15401.4
52.5°	14394.3	14356.3	14919.0	15587.5	16467.6	16789.2	16873.8	16361.8	16467.6	16319.5	15942.9
55°	13950.1	14064.3	14631.3	15993.7	17343.5	18337.8	18498.6	17851.2	17178.4	17292.7	16878.0
56°	13340.8	13141.9	13776.6	15532.5	17305.4	18841.3	18972.4	18164.3	17707.3	17559.2	16869.6
57.5°	11318.3	11060.2	11893.7	13975.5	16344.9	18650.9	18748.2	18295.5	17618.5	17318.1	15638.3
60°	6626.0	6752.9	7810.7	9638.5	12608.8	15291.4	15617.1	15947.2	15494.4	14148.9	11639.9
62.5°	3198.7	3118.4	3875.7	5525.9	7683.8	9761.2	9663.9	10590.6	11098.3	10053.2	7349.5
65°	1675.5	1667.1	2115.6	3016.8	4222.7	5128.1	5217.0	5716.3	6414.4	5178.9	3731.9
67.5°	1231.3	1265.1	1489.4	2119.8	2716.4	2771.4	2758.7	3008.3	3076.0	2602.2	2293.3
70°	964.7	981.6	1146.6	1612.1	2022.5	1810.9	1772.8	1802.5	2001.3	2086.0	1984.4
72.5°	698.1	715.1	854.7	1087.4	1265.1	1235.5	1260.9	1425.9	1671.3	1760.2	1654.4
75°	465.4	478.1	554.3	664.3	748.9	808.1	854.7	1045.1	1273.6	1324.3	1273.6
77.5°	321.6	334.3	385.0	469.7	478.1	516.2	533.1	622.0	761.6	825.1	791.2
80°	181.9	181.9	207.3	241.2	296.2	347.0	355.4	427.3	490.8	533.1	541.6
82.5°	84.6	88.9	110.0	148.1	194.6	241.2	249.6	296.2	342.7	385.0	397.7
85°	42.3	46.5	63.5	88.9	118.5	143.9	139.6	143.9	152.3	143.9	148.1
87.5°	12.7	12.7	16.9	21.2	16.9	21.2	21.2	25.4	29.6	33.8	38.1
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°	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1	6664.1
2.5°	6702.1	6714.8	6630.2	6710.6	6681.0	6676.7	6736.0	6727.5	6748.7	6740.2	6689.4
5°	6706.4	6676.7	6765.6	6685.2	6723.3	6803.7	6748.7	6875.6	6812.1	6854.5	6761.4
7.5°	6837.5	6846.0	6829.1	6862.9	6846.0	6884.1	6854.5	6884.1	6833.3	6837.5	6922.2
10°	6951.8	6926.4	6956.0	6913.7	6943.3	6930.6	6862.9	6841.8	6858.7	6837.5	6892.5
12.5°	7163.3	7116.8	7095.6	7044.9	7011.0	6884.1	6778.3	6719.1	6799.4	6812.1	6786.8
15°	7379.1	7383.3	7286.0	7171.8	6960.2	6769.8	6795.2	6816.4	6816.4	6850.2	6786.8
17.5°	7514.5	7514.5	7425.7	7197.2	6981.4	6871.4	6846.0	6778.3	6719.1	6710.6	6706.4
20°	7751.5	7679.5	7476.4	7192.9	6972.9	6922.2	6731.7	6571.0	6448.3	6406.0	6401.7
22.5°	8022.2	7840.3	7556.8	7201.4	6960.2	6888.3	6532.9	6291.7	6071.7	5978.6	5991.3
25°	8271.9	7979.9	7603.4	7163.3	6913.7	6566.7	6169.0	5834.7	5606.3	5530.1	5492.0
27.5°	8445.4	8128.0	7603.4	7197.2	6740.2	6207.1	5800.9	5373.6	5174.7	5123.9	5132.4
30°	8678.1	8314.2	7734.5	7125.2	6393.3	5741.7	5255.1	4975.8	4857.4	4815.0	4844.7
32.5°	9223.9	8800.8	7916.5	6951.8	5982.8	5276.2	4882.7	4726.2	4552.7	4468.1	4438.5
35°	9816.3	9262.0	8094.2	6659.8	5521.6	4853.1	4607.7	4463.9	4256.5	4163.4	4180.4
37.5°	10654.0	9854.3	8106.9	6177.5	5022.4	4616.2	4391.9	4167.7	3998.4	3854.6	3812.3
40°	11783.7	10662.5	8077.3	5669.7	4620.4	4336.9	4171.9	3892.7	3702.3	3600.7	3621.9
42.5°	12778.1	11610.3	7954.5	5094.3	4256.5	4146.5	3960.3	3685.3	3499.2	3393.4	3384.9
45°	13615.8	12308.4	7721.8	4603.5	3951.9	3935.0	3719.2	3507.6	3359.5	3262.2	3304.5
47.5°	14390.1	12871.1	7370.7	4112.7	3672.6	3706.5	3499.2	3368.0	3274.9	3186.1	3181.8
50°	14669.4	12862.7	7061.8	3706.5	3448.4	3431.5	3423.0	3283.4	3186.1	3109.9	3143.7
52.5°	15134.8	13006.5	6727.5	3427.2	3245.3	3249.5	3279.1	3177.6	3067.6	3021.0	3063.3
55°	15803.3	13027.7	5991.3	3101.4	3076.0	3105.7	3105.7	3038.0	2944.9	2906.8	2885.6
56°	15257.5	12397.2	5373.6	3016.8	2991.4	2991.4	3071.8	2995.6	2881.4	2851.8	2826.4
57.5°	14072.8	10861.3	4497.7	2915.3	2877.2	2936.4	2978.7	2898.3	2792.6	2750.2	2775.6
60°	9706.2	7349.5	3380.7	2695.2	2695.2	2792.6	2826.4	2707.9	2661.4	2657.2	2623.3
62.5°	5665.5	4281.9	2644.5	2496.4	2504.8	2585.2	2610.6	2542.9	2483.7	2555.6	2589.5
65°	3004.1	2555.6	2267.9	2284.8	2289.0	2352.5	2462.5	2458.3	2454.1	2475.2	2479.4
67.5°	2174.8	2124.0	2060.6	2043.6	2052.1	2098.6	2208.7	2293.3	2289.0	2238.3	2200.2
70°	1937.9	1865.9	1827.9	1832.1	1798.2	1853.2	1942.1	1997.1	1899.8	1840.5	1815.2
72.5°	1612.1	1590.9	1565.5	1569.8	1502.1	1489.4	1387.8	1387.8	1362.4	1345.5	1375.1
75°	1231.3	1222.8	1235.5	1214.3	1142.4	1066.2	1007.0	952.0	867.4	833.5	816.6
77.5°	778.5	803.9	833.5	787.0	757.4	702.4	643.1	588.1	520.4	482.4	482.4
80°	528.9	550.0	571.2	562.7	528.9	478.1	431.6	372.3	325.8	296.2	291.9
82.5°	402.0	418.9	448.5	414.7	380.8	338.5	300.4	258.1	215.8	181.9	181.9
85°	143.9	165.0	181.9	198.9	211.6	215.8	186.2	152.3	122.7	97.3	93.1
87.5°	38.1	42.3	46.5	42.3	42.3	42.3	46.5	42.3	38.1	29.6	29.6
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)