

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: P531716

Luminaire Tested: **GALN-SA7A-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25149 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

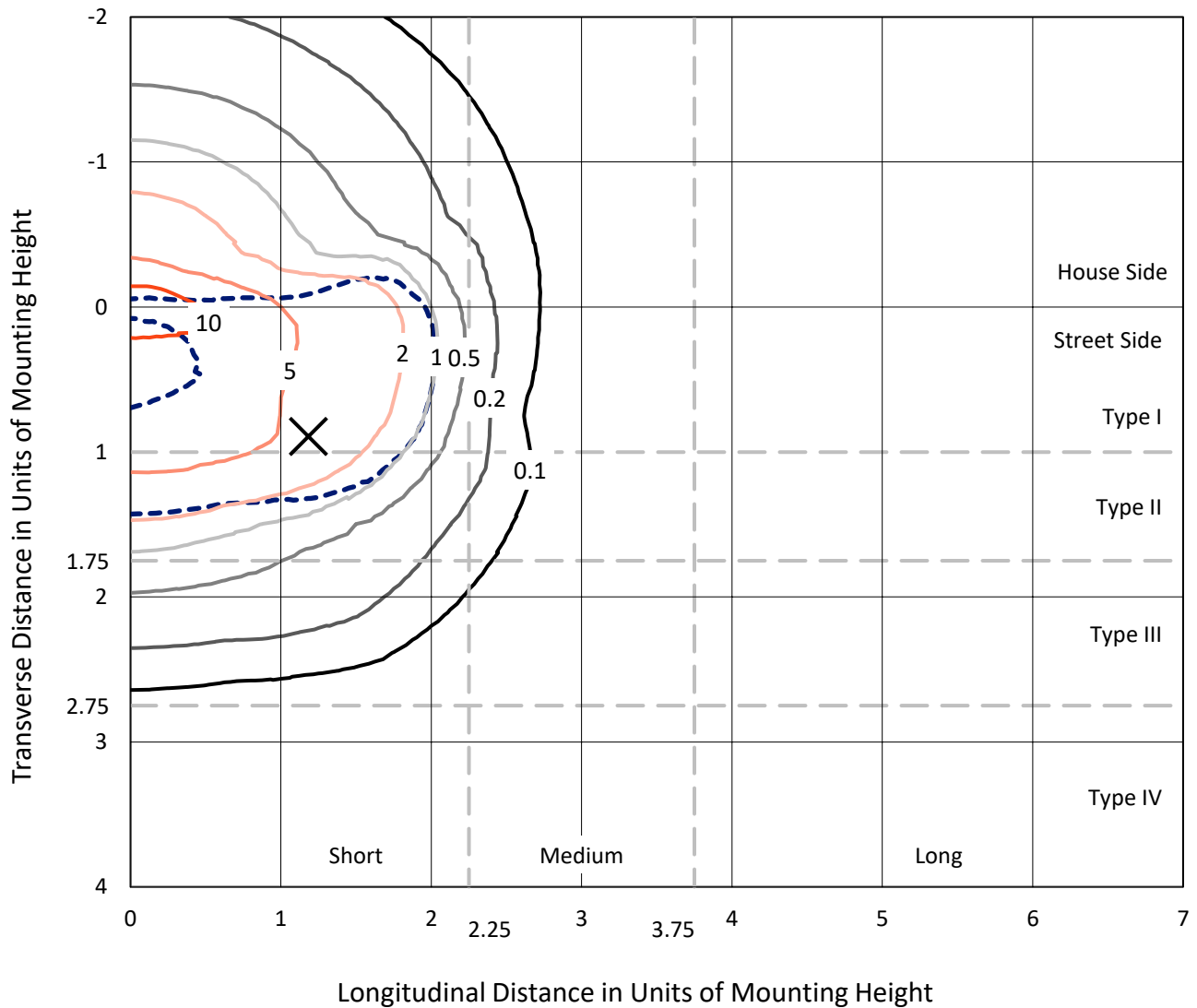
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

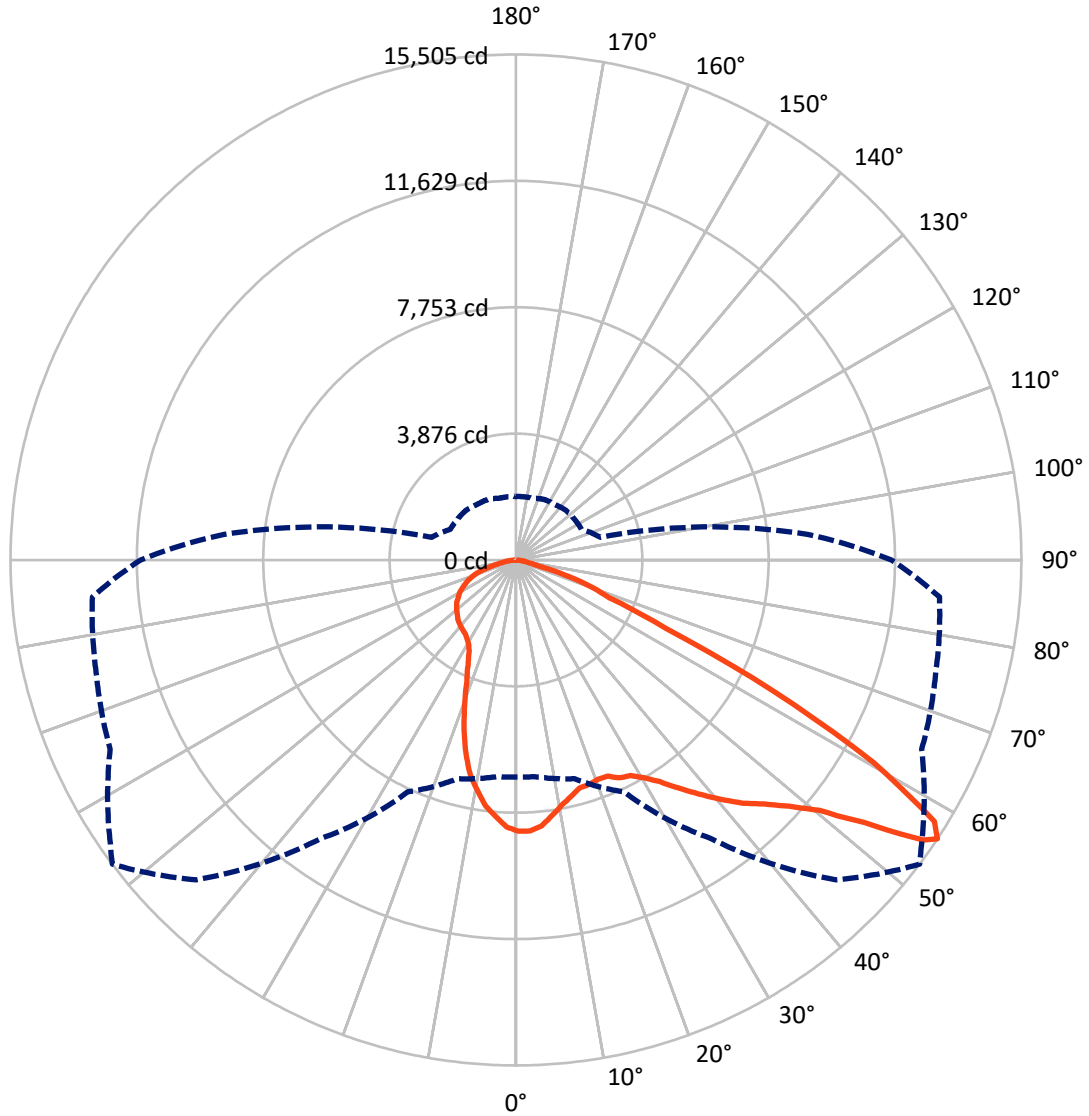
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7339.0	0.0	7339.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	17810.0	0.0	17810.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	25149.0	0.0	25149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.6	2.9
10°-20°	1839.7	7.3
20°-30°	2712.7	10.8
30°-40°	3876.0	15.4
40°-50°	5334.8	21.2
50°-60°	6304.3	25.1
60°-70°	3359.7	13.4
70°-80°	852.4	3.4
80°-90°	132.9	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°	25149.0	100.0
0°-180°	25149.0	100.0

Coefficient of Utilization

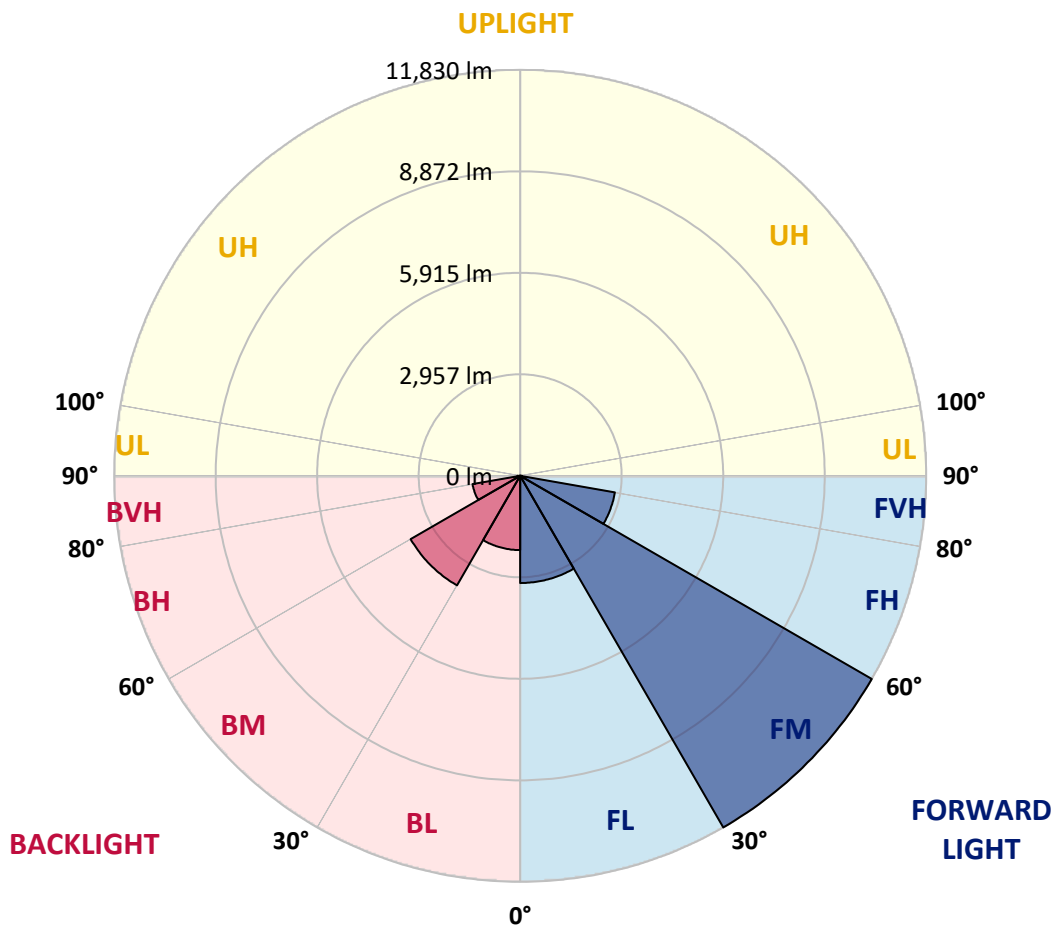


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3124.4	12.4			
FM (30°-60°)	11829.6	47.0			
FH (60°-80°)	2802.5	11.1			G2/5000
FVH (80°-90°)	53.4	0.2			G1/100
BL (0°-30°)	2164.6	8.6	B3/2500		
BM (30°-60°)	3685.4	14.7	B3/5000		
BH (60°-80°)	1409.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	79.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3
2.5°	8217.0	8146.1	8188.0	8171.9	8304.1	8342.9	8323.5	8339.6	8413.8	8378.4	8304.1
5°	7678.3	7778.3	7797.6	7846.0	7923.5	8075.1	8194.5	8226.7	8262.2	8426.7	8410.6
7.5°	7187.9	7255.6	7220.2	7362.1	7529.9	7775.1	7920.2	7946.0	8271.9	8362.2	8430.0
10°	6878.2	6810.4	6971.7	7010.5	7200.8	7481.5	7655.7	7762.2	8059.0	8417.1	8459.0
12.5°	6591.1	6568.5	6665.3	6774.9	6987.9	7278.2	7455.7	7497.6	7955.7	8333.2	8530.0
15°	6378.1	6352.3	6449.1	6529.8	6778.2	7036.3	7262.1	7381.5	7842.8	8284.8	8468.7
17.5°	6210.4	6207.1	6262.0	6407.2	6662.0	6878.2	7242.7	7249.2	7784.7	8359.0	8520.3
20°	6200.7	6197.5	6207.1	6368.5	6600.7	6865.3	7181.4	7239.5	7784.7	8307.4	8523.5
22.5°	6281.3	6229.7	6287.8	6391.0	6558.8	6887.9	7204.0	7333.1	7971.9	8562.2	8668.7
25°	6410.4	6423.3	6455.6	6491.0	6587.8	6939.5	7404.0	7510.5	8191.2	8781.6	8868.7
27.5°	6645.9	6639.4	6652.4	6671.7	6755.6	6987.9	7484.7	7758.9	8649.3	9172.0	9084.9
30°	6991.1	6968.5	7020.1	7087.9	7010.5	7142.7	7752.5	7958.9	9075.2	9565.6	9326.8
32.5°	7304.0	7387.9	7484.7	7513.7	7420.2	7446.0	8107.4	8317.1	9430.1	10049.5	9623.7
35°	7694.4	7762.2	7891.2	7981.5	7965.4	7888.0	8591.3	8868.7	9943.0	10404.4	9936.6
37.5°	8075.1	8155.7	8368.7	8636.4	8488.0	8452.6	9107.5	9336.5	10101.1	10594.7	10165.6
40°	8688.1	8684.8	9052.6	9191.3	9323.6	9262.3	9643.0	9720.4	10185.0	10552.8	10172.1
42.5°	9407.5	9362.3	9736.6	9952.7	10123.7	10130.2	10201.1	10175.3	10223.7	10339.9	10104.3
45°	10091.4	10188.2	10565.7	10952.8	11123.8	11143.2	10672.2	10623.8	10291.5	10278.6	9975.3
47.5°	10927.0	10949.6	11259.3	11769.1	12165.9	12030.4	11281.9	11175.4	10588.3	10688.3	10191.5
50°	10975.4	11143.2	11420.6	12020.7	13240.2	13204.7	12072.3	11872.3	11065.7	11269.0	10794.7
52.5°	9962.4	9923.7	10252.8	11233.5	13159.5	14372.6	13382.1	12904.7	12091.7	11936.8	11772.3
55°	7591.2	7681.5	7971.9	8962.3	11427.1	14388.7	15166.2	14775.8	13188.6	12924.0	12733.7
56°	6658.8	6671.7	6945.9	7849.3	10427.0	13875.7	15505.0	15188.8	13733.8	13330.5	13040.2
57.5°	5520.0	5445.8	5587.7	6081.3	8801.0	12791.7	15133.9	15443.7	14372.6	13769.3	13366.0
60°	4345.6	4329.5	4271.4	4361.8	5561.9	9636.6	12598.2	13295.0	14308.0	13356.3	12801.4
62.5°	3548.8	3468.1	3584.3	3713.3	3864.9	5978.1	8852.6	9262.3	11359.3	10662.5	9617.2
65°	2751.9	2713.2	2858.4	3277.8	3368.1	3797.2	5042.5	5358.7	6707.2	6587.8	5800.6
67.5°	1893.8	1900.2	2026.0	2664.8	3122.9	3084.2	3087.4	3252.0	3500.4	2600.3	2264.8
70°	1200.1	1196.9	1264.7	1716.3	2513.2	2539.0	2409.9	2361.6	2239.0	1355.0	1435.6
72.5°	771.1	748.5	784.0	948.5	1300.1	1503.4	1548.6	1577.6	1296.9	1064.6	1155.0
75°	435.5	412.9	400.0	442.0	513.0	593.6	651.7	671.0	751.7	806.5	854.9
77.5°	132.3	119.4	145.2	193.6	254.9	342.0	416.2	429.1	506.5	571.0	619.4
80°	58.1	64.5	90.3	129.0	180.7	242.0	293.6	312.9	364.6	412.9	425.9
82.5°	35.5	38.7	61.3	87.1	125.8	171.0	209.7	216.2	267.8	306.5	316.2
85°	12.9	16.1	32.3	51.6	80.7	109.7	109.7	119.4	109.7	109.7	119.4
87.5°	0.0	0.0	3.2	6.5	6.5	9.7	12.9	12.9	16.1	19.4	22.6
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°	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3	8320.3
2.5°	8342.9	8326.7	8300.9	8207.4	8197.7	8168.7	8007.3	7981.5	8007.3	7929.9	7936.4
5°	8326.7	8375.1	8181.6	8088.0	7913.8	7788.0	7642.8	7568.6	7436.3	7352.4	7446.0
7.5°	8397.7	8378.4	8136.4	7933.1	7671.8	7352.4	7097.6	6952.4	6720.1	6655.6	6704.0
10°	8371.9	8268.7	7984.8	7717.0	7223.4	6942.7	6529.8	6129.7	5910.3	5797.4	5781.3
12.5°	8336.4	8307.4	7833.1	7371.8	6852.4	6262.0	5681.3	5303.8	4945.7	4790.9	4813.4
15°	8378.4	8133.2	7549.2	6965.3	6274.9	5500.6	4874.7	4387.6	4139.2	4039.2	4039.2
17.5°	8359.0	8049.3	7413.7	6510.4	5636.1	4719.9	4032.7	3739.1	3635.9	3635.9	3664.9
20°	8368.7	8104.1	7139.5	6055.5	4881.2	3974.6	3474.6	3368.1	3413.3	3429.4	3445.5
22.5°	8423.5	7923.5	6871.7	5555.5	4181.1	3400.4	3155.2	3158.4	3239.1	3326.2	3310.0
25°	8491.3	7852.5	6545.9	5058.6	3645.6	3119.7	3042.3	3032.6	3093.9	3139.1	3145.5
27.5°	8433.2	7729.9	6213.6	4439.2	3206.8	2932.6	2916.5	2922.9	2942.3	3032.6	3003.6
30°	8623.5	7765.4	5797.4	3919.8	2964.8	2871.3	2851.9	2842.3	2871.3	2897.1	2874.5
32.5°	8859.0	7639.6	5487.7	3419.7	2845.5	2826.1	2787.4	2774.5	2790.6	2764.8	2777.7
35°	8962.3	7617.0	5084.4	3061.6	2751.9	2735.8	2713.2	2710.0	2713.2	2690.6	2671.3
37.5°	9020.4	7723.4	4623.1	2897.1	2693.8	2710.0	2658.4	2651.9	2593.8	2606.7	2616.4
40°	9120.4	7558.9	4248.9	2739.0	2658.4	2626.1	2580.9	2571.3	2532.5	2510.0	2532.5
42.5°	8975.2	7510.5	3881.1	2671.3	2606.7	2571.3	2539.0	2484.1	2471.2	2451.9	2439.0
45°	8859.0	7233.1	3552.0	2587.4	2545.4	2526.1	2464.8	2406.7	2358.3	2377.7	2348.6
47.5°	8946.2	7136.3	3226.2	2516.4	2461.6	2439.0	2377.7	2332.5	2284.1	2261.5	2255.1
50°	9294.6	7316.9	2951.9	2464.8	2390.6	2377.7	2297.0	2245.4	2200.2	2184.1	2190.6
52.5°	10126.9	7810.5	2764.8	2358.3	2322.8	2264.8	2219.6	2155.1	2126.0	2074.4	2106.7
55°	11181.9	8613.9	2716.4	2258.3	2239.0	2187.3	2126.0	2077.7	2022.8	1980.9	1971.2
56°	11520.6	8997.8	2677.7	2219.6	2187.3	2158.3	2077.7	2048.6	1961.5	1951.8	1945.4
57.5°	11794.9	9336.5	2684.2	2145.4	2113.1	2087.3	2038.9	1968.0	1909.9	1874.4	1890.5
60°	11175.4	8739.7	2561.6	2032.5	2026.0	1977.6	1909.9	1877.6	1806.7	1764.7	1755.0
62.5°	8307.4	5932.9	2077.7	1887.3	1884.1	1832.5	1755.0	1719.5	1706.6	1648.6	1648.6
65°	4784.4	3719.8	1797.0	1767.9	1742.1	1690.5	1613.1	1584.0	1551.8	1532.4	1516.3
67.5°	2042.2	1929.2	1632.4	1629.2	1600.2	1535.7	1458.2	1413.1	1371.1	1332.4	1351.8
70°	1480.8	1503.4	1474.4	1458.2	1422.7	1342.1	1274.3	1219.5	1155.0	1129.2	1148.5
72.5°	1174.3	1222.7	1264.7	1267.9	1225.9	1132.4	1058.2	984.0	913.0	877.5	893.6
75°	890.4	922.7	964.6	974.3	913.0	848.5	777.5	700.1	645.2	603.3	609.7
77.5°	642.0	635.6	674.3	667.8	638.8	593.6	529.1	458.1	396.8	358.1	361.3
80°	438.8	448.4	471.0	467.8	432.3	403.3	354.9	296.8	251.6	219.4	212.9
82.5°	306.5	322.6	342.0	325.8	296.8	267.8	232.3	190.3	154.9	129.0	122.6
85°	109.7	125.8	145.2	154.9	164.5	158.1	132.3	106.5	77.4	64.5	61.3
87.5°	22.6	25.8	29.0	29.0	29.0	25.8	22.6	22.6	19.4	9.7	9.7
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)