

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: P529852

Luminaire Tested: **GALN-SA5A-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17895 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

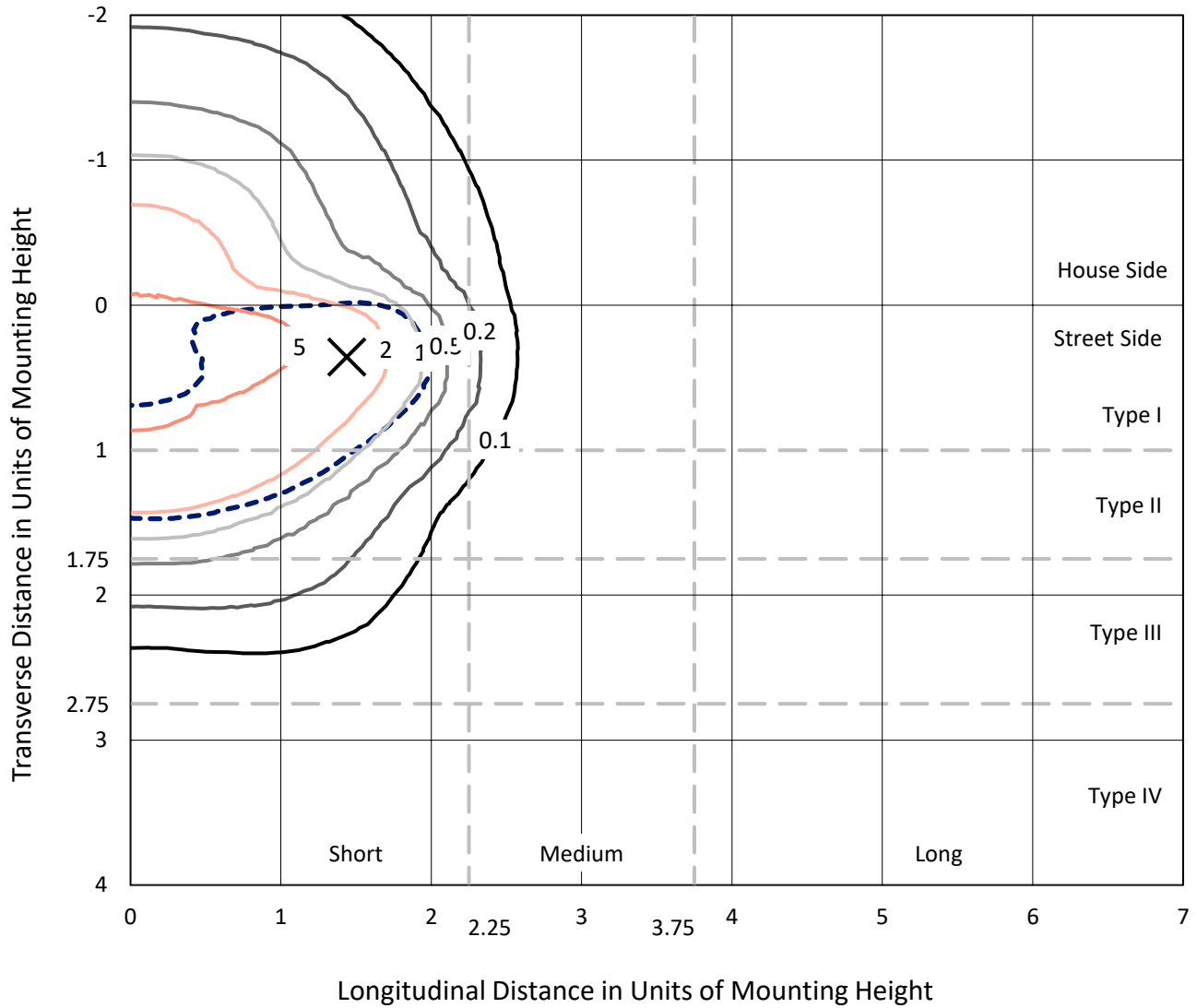
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529852
 CATALOG NUMBER: GALN-SA5A-735-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

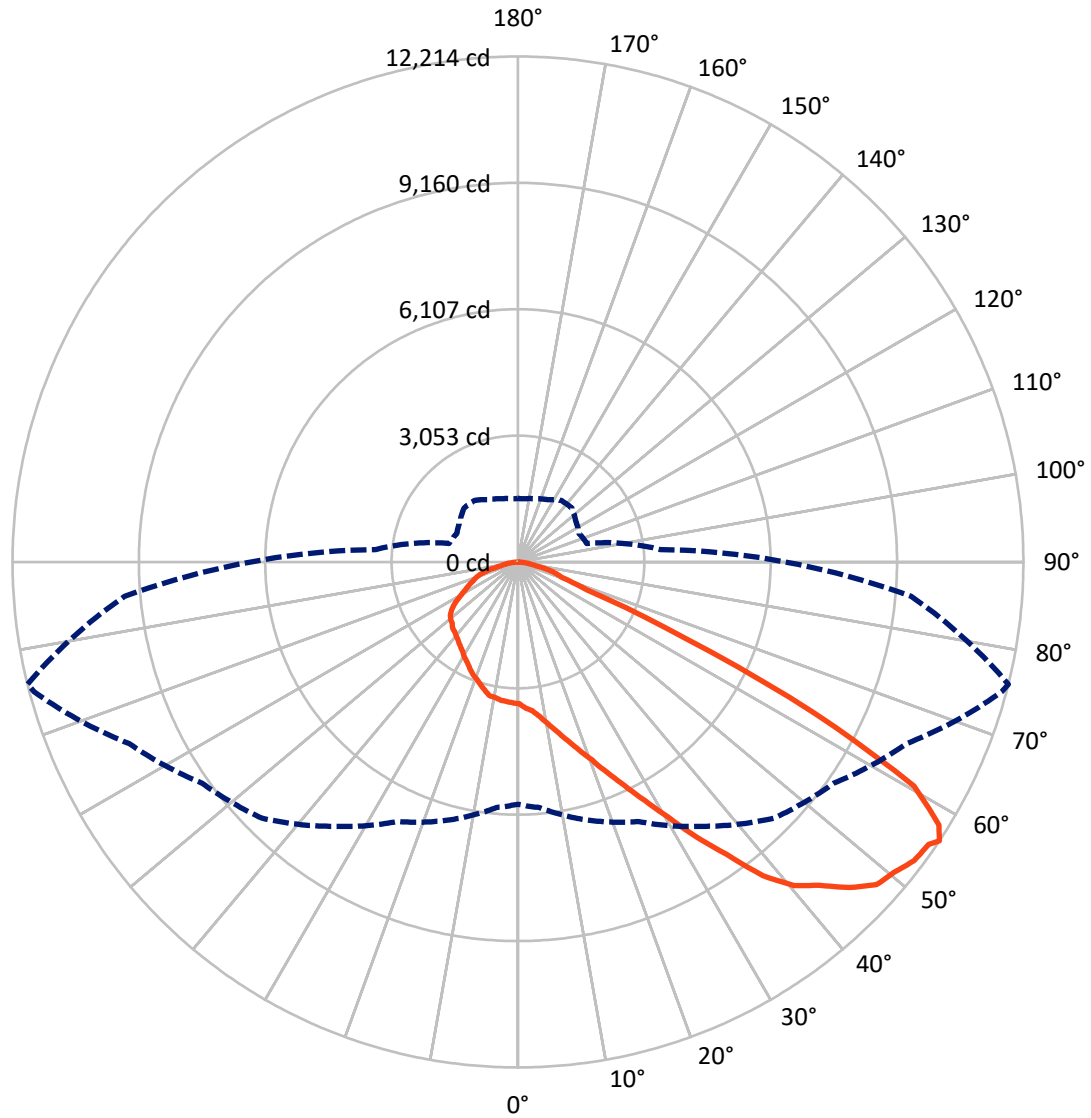
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

REPORT NUMBER: P529852
CATALOG NUMBER: GALN-SA5A-735-U-T2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P529852
 CATALOG NUMBER: GALN-SA5A-735-U-T2-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4811.4	0.0	4811.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13083.6	0.0	13083.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	17895.0	0.0	17895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.6	1.9
10°-20°	1066.6	6.0
20°-30°	1865.4	10.4
30°-40°	2920.7	16.3
40°-50°	4248.8	23.7
50°-60°	4669.7	26.1
60°-70°	2084.4	11.6
70°-80°	602.0	3.4
80°-90°	97.7	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°	17895.0	100.0
0°-180°	17895.0	100.0

Coefficient of Utilization

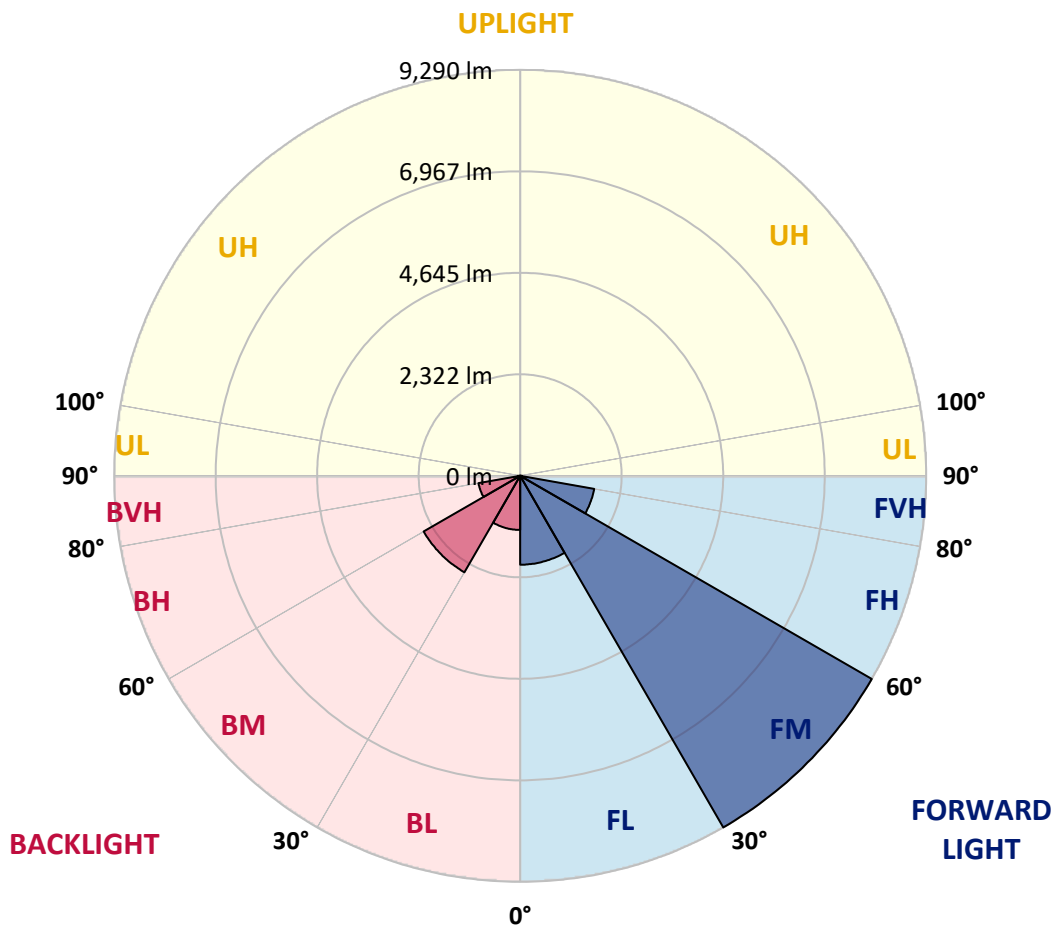


REPORT NUMBER: P529852
 CATALOG NUMBER: GALN-SA5A-735-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2033.6	11.4			
FM (30°-60°)	9289.6	51.9			
FH (60°-80°)	1718.3	9.6			G1/1800
FVH (80°-90°)	42.0	0.2			G1/100
BL (0°-30°)	1238.1	6.9	B3/2500		
BM (30°-60°)	2549.7	14.2	B3/5000		
BH (60°-80°)	968.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	55.6	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-G2
 Type II Short





REPORT NUMBER: P529852

CATALOG NUMBER: GALN-SA5A-735-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0
2.5°	3771.9	3711.6	3707.0	3690.8	3700.0	3658.3	3614.2	3556.2	3495.9	3533.0	3444.9
5°	4036.4	3955.2	3987.7	3932.0	3939.0	3883.3	3792.8	3725.5	3651.3	3607.2	3544.6
7.5°	4129.2	4136.1	4159.3	4150.1	4103.7	4103.7	4043.4	3925.0	3795.1	3769.6	3665.2
10°	4254.5	4256.8	4231.3	4238.2	4303.2	4273.0	4219.7	4168.6	4001.6	3971.4	3785.9
12.5°	4298.5	4256.8	4298.5	4335.6	4412.2	4454.0	4442.4	4405.2	4226.6	4205.7	3934.3
15°	4305.5	4280.0	4314.8	4398.3	4465.6	4641.9	4730.0	4704.5	4467.9	4470.2	4101.4
17.5°	4273.0	4307.8	4321.7	4393.6	4549.1	4713.8	4968.9	5003.7	4808.9	4778.7	4312.4
20°	4317.1	4291.6	4310.1	4375.1	4581.5	4839.0	5173.1	5402.7	5129.0	5108.1	4530.5
22.5°	4486.4	4451.6	4447.0	4488.8	4637.2	4904.0	5388.8	5801.7	5518.7	5530.3	4801.9
25°	4618.7	4637.2	4621.0	4618.7	4711.5	5001.4	5674.2	6277.3	6047.6	5980.4	5122.0
27.5°	4846.0	4890.1	4857.6	4901.7	4880.8	5147.6	5878.3	6803.9	6618.3	6527.8	5412.0
30°	5161.5	5184.7	5154.5	5154.5	5091.9	5351.7	6063.9	7353.7	7277.1	7154.2	5753.0
32.5°	5576.7	5611.5	5551.2	5516.4	5507.1	5655.6	6397.9	7896.5	8026.4	7922.0	6205.4
35°	6126.5	6105.6	6033.7	6001.2	5876.0	6121.9	6894.4	8520.5	8861.5	8675.9	6752.8
37.5°	6611.3	6578.9	6574.2	6393.3	6423.4	6625.3	7316.6	8993.7	9671.1	9617.8	7330.5
40°	7063.7	7093.9	7142.6	7040.5	6994.1	7216.8	7808.3	9355.6	10299.8	10278.9	7775.9
42.5°	7548.5	7520.7	7606.5	7520.7	7451.1	7766.6	8341.9	9606.2	10851.9	10680.2	8242.1
45°	8251.4	8163.3	8193.4	8200.4	8149.3	8265.3	8562.3	9787.1	11239.3	11220.7	8583.1
47.5°	8838.3	8840.6	8789.6	8750.2	8594.7	8710.7	8808.2	9900.8	11684.7	11654.5	8715.4
50°	9056.4	9026.2	9174.7	9260.5	9269.8	9033.2	9000.7	9963.4	11919.0	11786.7	8847.6
52.5°	8272.3	8300.1	8534.4	9044.8	9339.4	9364.9	9225.7	10093.3	12014.1	11986.2	8954.3
55°	6657.7	6792.3	7177.4	7766.6	8464.8	9232.7	9469.3	10227.9	12065.1	12041.9	9427.5
56°	5852.8	5957.2	6458.2	6919.9	7796.7	8752.5	9316.2	10371.7	12104.6	12213.6	9538.9
57.5°	4711.5	4832.1	5191.6	5715.9	6750.5	7838.5	8894.0	10195.4	11951.4	11993.2	9620.1
60°	2946.1	2957.7	3389.2	3734.8	4463.2	5525.7	6787.6	8870.8	11060.7	11000.3	8641.1
62.5°	1932.4	1934.7	2326.7	2609.7	2941.5	3185.0	3994.6	5882.9	8160.9	8054.2	6152.0
65°	1357.1	1387.2	1691.1	2069.2	2203.8	2076.2	2050.7	3101.5	4558.3	4405.2	3305.7
67.5°	992.9	995.2	1264.3	1670.2	1865.1	1579.8	1282.8	1514.8	1804.8	1800.1	1531.0
70°	656.5	684.3	890.8	1248.0	1470.7	1268.9	1048.5	1083.3	1148.3	1148.3	1139.0
72.5°	382.8	408.3	545.1	791.0	825.8	793.4	830.5	927.9	969.7	967.3	955.7
75°	218.1	229.7	259.8	329.4	410.6	484.8	610.1	702.9	744.6	770.2	740.0
77.5°	127.6	134.5	153.1	187.9	213.4	262.1	331.7	396.7	452.4	445.4	450.0
80°	67.3	67.3	85.8	111.3	148.5	185.6	220.4	257.5	287.7	294.6	301.6
82.5°	39.4	41.8	55.7	81.2	106.7	132.2	169.3	194.9	222.7	225.0	229.7
85°	20.9	23.2	34.8	53.4	71.9	81.2	83.5	78.9	85.8	81.2	92.8
87.5°	7.0	7.0	11.6	9.3	9.3	11.6	13.9	13.9	18.6	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529852

CATALOG NUMBER: GALN-SA5A-735-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0	3424.0
2.5°	3442.5	3442.5	3403.1	3328.9	3317.3	3287.1	3259.3	3257.0	3236.1	3217.5	3208.2
5°	3507.5	3435.6	3377.6	3310.3	3231.4	3194.3	3152.6	3106.2	3087.6	3106.2	3103.9
7.5°	3581.7	3521.4	3347.4	3222.2	3131.7	3094.6	3048.2	2999.5	3004.1	3004.1	2971.6
10°	3653.6	3572.4	3294.1	3134.0	3001.8	2973.9	2948.4	2967.0	2990.2	2994.8	2973.9
12.5°	3774.3	3591.0	3268.6	3045.9	2962.3	2902.0	2918.3	2969.3	3018.0	3004.1	3020.3
15°	3864.7	3607.2	3152.6	2955.4	2851.0	2878.8	2936.8	2971.6	3052.8	3043.5	3059.8
17.5°	3952.9	3616.5	3038.9	2834.8	2790.7	2867.2	2911.3	3011.1	3036.6	3092.3	3113.1
20°	4133.8	3635.1	2922.9	2760.5	2746.6	2834.8	2911.3	2957.7	3013.4	3062.1	3062.1
22.5°	4226.6	3625.8	2846.4	2663.1	2707.2	2762.8	2832.4	2911.3	2911.3	2957.7	2960.0
25°	4342.6	3588.7	2725.7	2616.7	2649.2	2702.5	2781.4	2753.6	2783.7	2783.7	2820.8
27.5°	4474.8	3509.8	2621.3	2533.2	2598.1	2656.1	2667.7	2649.2	2614.4	2609.7	2595.8
30°	4581.5	3412.4	2544.8	2505.4	2558.7	2591.2	2554.1	2514.6	2454.3	2449.7	2417.2
32.5°	4727.7	3291.8	2449.7	2435.8	2496.1	2498.4	2486.8	2426.5	2338.3	2301.2	2264.1
35°	4973.6	3222.2	2377.8	2398.6	2417.2	2410.2	2389.4	2324.4	2236.3	2220.0	2206.1
37.5°	5154.5	3171.1	2303.5	2329.0	2345.3	2354.6	2291.9	2220.0	2222.3	2189.9	2180.6
40°	5358.7	3138.6	2243.2	2254.8	2257.1	2287.3	2210.7	2175.9	2192.2	2171.3	2185.2
42.5°	5620.8	3147.9	2180.6	2171.3	2215.4	2203.8	2166.7	2120.3	2129.5	2066.9	2076.2
45°	5760.0	3210.6	2143.5	2101.7	2150.4	2148.1	2099.4	2055.3	1999.6	1879.0	1883.7
47.5°	5852.8	3226.8	2055.3	2027.5	2078.5	2108.7	2053.0	1950.9	1872.1	1786.2	1765.3
50°	5947.9	3257.0	2013.6	1955.6	1976.4	2048.4	1978.8	1881.3	1804.8	1728.2	1739.8
52.5°	6031.4	3314.9	1932.4	1846.5	1883.7	1962.5	1925.4	1807.1	1723.6	1661.0	1642.4
55°	6402.6	3444.9	1795.5	1684.2	1772.3	1872.1	1851.2	1707.3	1616.9	1584.4	1579.8
56°	6460.6	3449.5	1723.6	1628.5	1709.7	1841.9	1816.4	1663.3	1582.1	1531.0	1533.4
57.5°	6469.8	3393.8	1621.5	1577.4	1647.0	1797.8	1765.3	1628.5	1517.1	1470.7	1456.8
60°	5692.7	2649.2	1493.9	1466.1	1547.3	1663.3	1651.7	1533.4	1408.1	1354.7	1380.3
62.5°	3881.0	1941.6	1394.2	1389.5	1431.3	1545.0	1514.8	1408.1	1303.7	1268.9	1252.7
65°	2259.5	1473.1	1296.8	1278.2	1313.0	1373.3	1394.2	1282.8	1173.8	1150.6	1143.6
67.5°	1333.9	1217.9	1171.5	1141.3	1129.7	1166.8	1183.1	1118.1	1009.1	976.6	1004.5
70°	1115.8	1083.3	1085.7	1034.6	1006.8	981.3	967.3	909.3	818.9	777.1	765.5
72.5°	962.7	948.8	939.5	893.1	867.6	809.6	749.3	691.3	624.0	589.2	591.5
75°	735.4	730.7	735.4	712.2	668.1	621.7	566.0	491.8	440.8	396.7	406.0
77.5°	438.4	452.4	459.3	450.0	431.5	389.7	354.9	306.2	257.5	222.7	218.1
80°	301.6	313.2	324.8	313.2	294.6	264.5	227.3	190.2	155.4	136.9	132.2
82.5°	229.7	241.3	248.2	236.6	213.4	180.9	155.4	129.9	102.1	83.5	78.9
85°	83.5	95.1	92.8	111.3	120.6	116.0	99.8	76.6	58.0	41.8	39.4
87.5°	23.2	20.9	23.2	23.2	23.2	20.9	18.6	18.6	18.6	11.6	9.3
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)