

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: P650900

Luminaire Tested: **GALN-SA5C-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650900
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-SA5C-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 25097.1 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

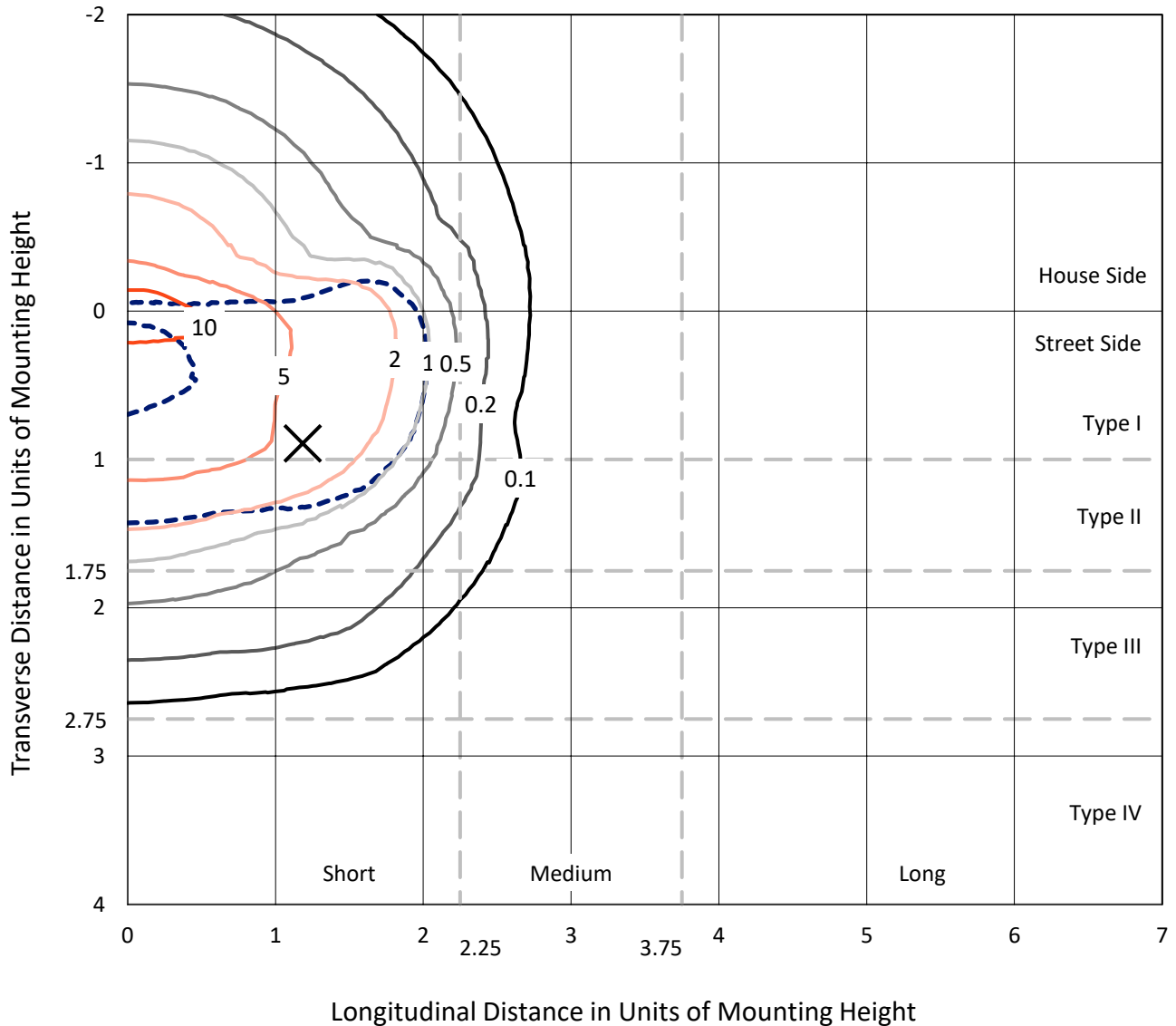
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650900
 CATALOG NUMBER: GALN-SA5C-840-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

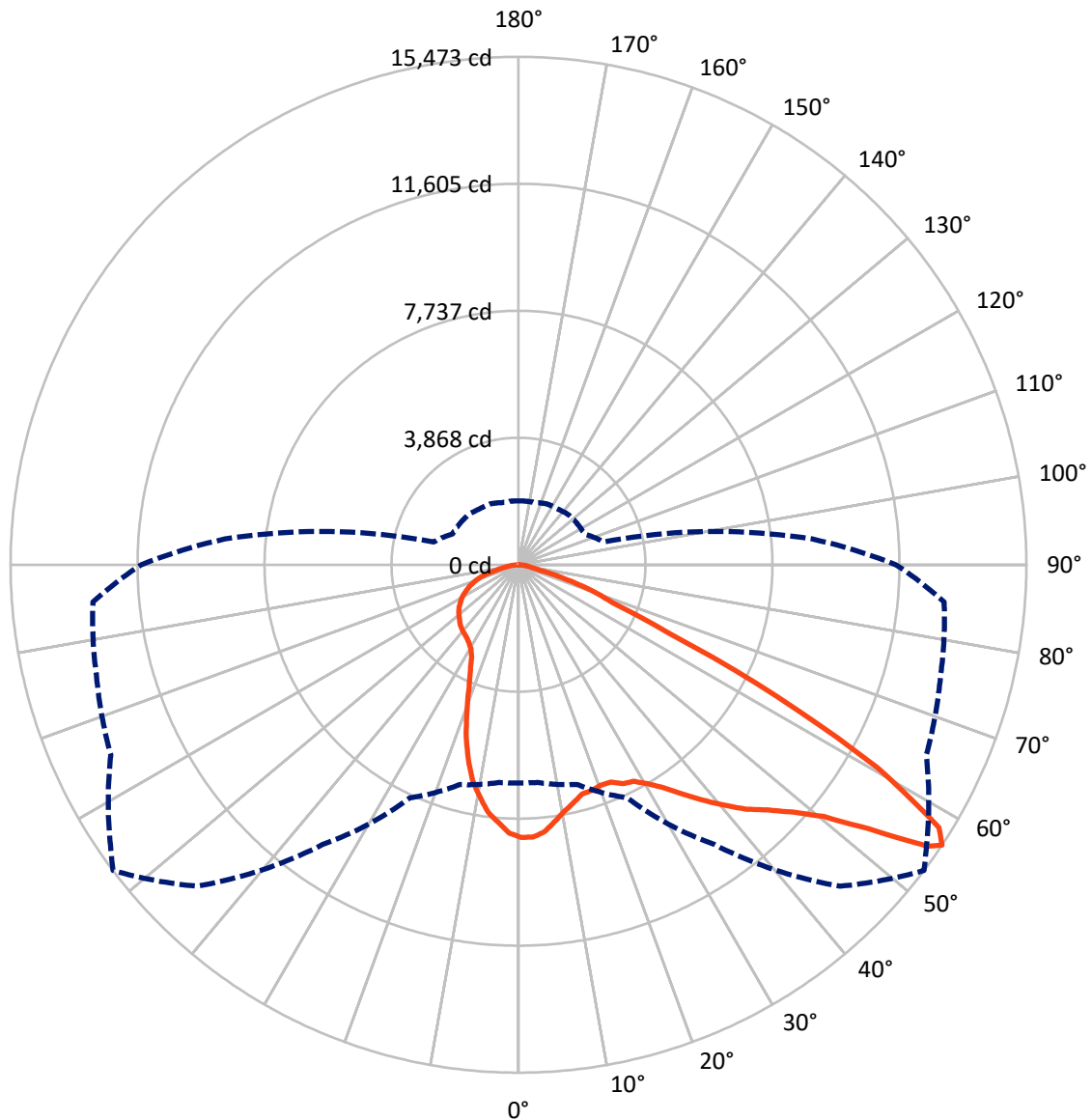
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P650900
CATALOG NUMBER: GALN-SA5C-840-U-SL2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650900
 CATALOG NUMBER: GALN-SA5C-840-U-SL2-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7323.9	0.0	7323.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	17773.2	0.0	17773.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	25097.1	0.0	25097.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.1	2.9
10°-20°	1835.9	7.3
20°-30°	2707.1	10.8
30°-40°	3868.0	15.4
40°-50°	5323.8	21.2
50°-60°	6291.3	25.1
60°-70°	3352.8	13.4
70°-80°	850.6	3.4
80°-90°	132.6	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°	25097.1	100.0
0°-180°	25097.1	100.0

Coefficient of Utilization

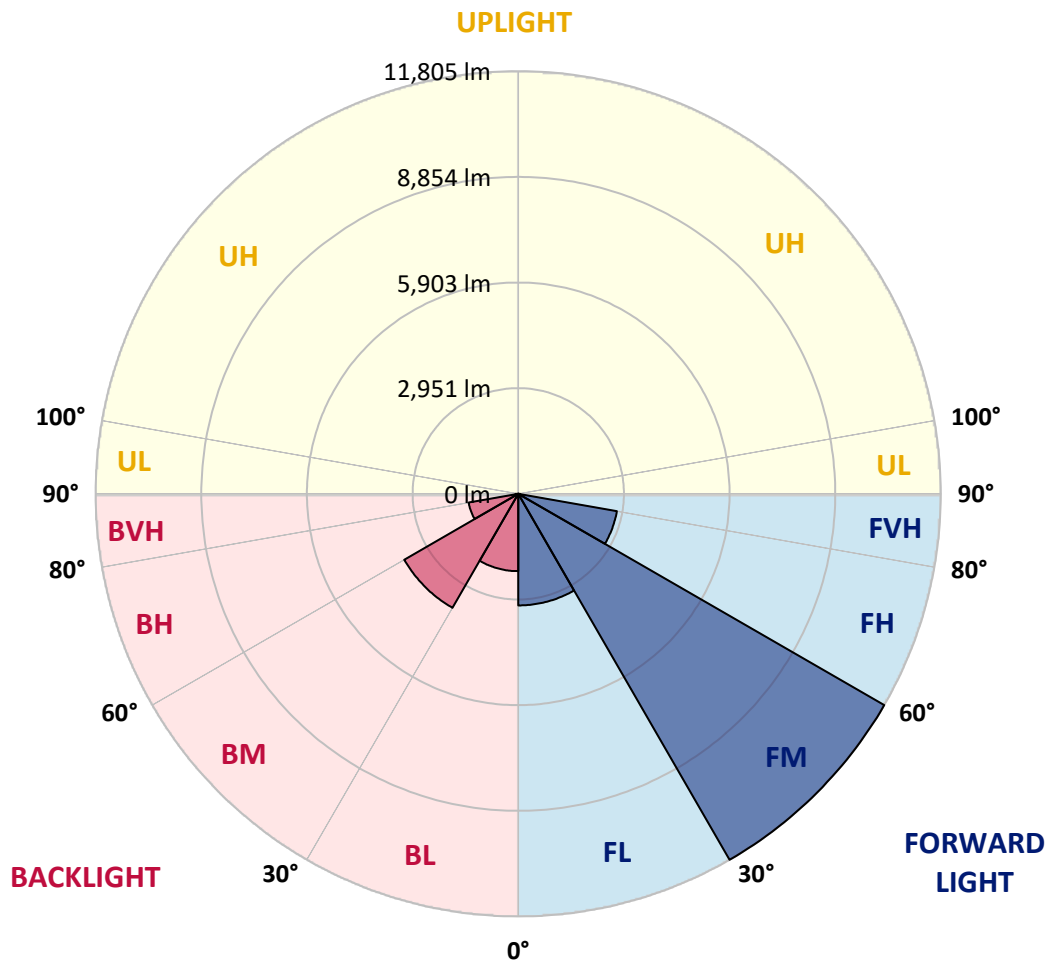


REPORT NUMBER: P650900
 CATALOG NUMBER: GALN-SA5C-840-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3118.0	12.4			
FM (30°-60°)	11805.2	47.0			
FH (60°-80°)	2796.8	11.1			G2/5000
FVH (80°-90°)	53.3	0.2			G1/100
BL (0°-30°)	2160.1	8.6	B3/2500		
BM (30°-60°)	3677.8	14.7	B3/5000		
BH (60°-80°)	1406.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	79.3	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





REPORT NUMBER: P650900

CATALOG NUMBER: GALN-SA5C-840-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1
2.5°	8200.1	8129.3	8171.2	8155.0	8287.0	8325.6	8306.3	8322.5	8396.5	8361.1	8287.0
5°	7662.4	7762.3	7781.5	7829.9	7907.1	8058.5	8177.5	8209.8	8245.2	8409.3	8393.3
7.5°	7173.1	7240.7	7205.3	7346.9	7514.3	7759.0	7903.9	7929.6	8254.8	8345.0	8412.6
10°	6864.0	6796.4	6957.3	6996.0	7185.9	7466.1	7639.9	7746.1	8042.3	8399.7	8441.5
12.5°	6577.5	6554.9	6651.5	6761.0	6973.5	7263.2	7440.3	7482.1	7939.3	8316.0	8512.3
15°	6364.9	6339.2	6435.8	6516.3	6764.2	7021.8	7247.1	7366.2	7826.6	8267.7	8451.2
17.5°	6197.6	6194.3	6249.1	6394.0	6648.3	6864.0	7227.8	7234.2	7768.7	8341.7	8502.8
20°	6187.9	6184.7	6194.3	6355.4	6587.1	6851.1	7166.7	7224.6	7768.7	8290.2	8506.0
22.5°	6268.4	6216.8	6274.8	6377.9	6545.3	6873.7	7189.2	7318.0	7955.4	8544.6	8650.9
25°	6397.2	6410.0	6442.2	6477.6	6574.3	6925.1	7388.8	7495.0	8174.4	8763.5	8850.4
27.5°	6632.2	6625.7	6638.6	6657.9	6741.6	6973.5	7469.3	7742.9	8631.5	9153.1	9066.1
30°	6976.7	6954.1	7005.6	7073.2	6996.0	7128.0	7736.4	7942.6	9056.5	9545.9	9307.6
32.5°	7288.9	7372.7	7469.3	7498.3	7404.8	7430.7	8090.6	8299.9	9410.6	10028.8	9603.8
35°	7678.5	7746.1	7875.0	7965.0	7949.0	7871.7	8573.6	8850.4	9922.5	10382.9	9916.1
37.5°	8058.5	8138.9	8351.4	8618.7	8470.6	8435.1	9088.7	9317.3	10080.3	10572.9	10144.6
40°	8670.1	8666.9	9033.9	9172.4	9304.4	9243.2	9623.1	9700.3	10164.0	10531.0	10151.1
42.5°	9388.1	9343.0	9716.5	9932.2	10102.8	10109.2	10180.1	10154.3	10202.6	10318.6	10083.5
45°	10070.6	10167.2	10543.9	10930.2	11100.9	11120.2	10650.2	10601.8	10270.2	10257.3	9954.7
47.5°	10904.5	10927.0	11236.1	11744.7	12140.8	12005.5	11258.6	11152.4	10566.4	10666.2	10170.5
50°	10952.8	11120.2	11397.1	11995.9	13212.9	13177.5	12047.4	11847.8	11042.9	11245.8	10772.5
52.5°	9941.9	9903.2	10231.6	11210.4	13132.4	14342.9	13354.5	12878.1	12066.8	11912.2	11748.0
55°	7575.5	7665.6	7955.4	8943.8	11403.5	14359.0	15134.9	14745.3	13161.4	12897.3	12707.4
56°	6645.1	6657.9	6931.6	7833.1	10405.4	13847.1	15473.0	15157.4	13705.4	13303.0	13013.3
57.5°	5508.6	5434.5	5576.2	6068.7	8782.8	12765.4	15102.8	15411.8	14342.9	13740.8	13338.4
60°	4336.7	4320.6	4262.6	4352.8	5550.4	9616.7	12572.2	13267.6	14278.5	13328.8	12775.0
62.5°	3541.5	3461.0	3576.9	3705.7	3857.0	5965.7	8834.4	9243.2	11335.9	10640.5	9597.3
65°	2746.2	2707.6	2852.5	3271.0	3361.1	3789.4	5032.1	5347.6	6693.4	6574.3	5788.7
67.5°	1889.8	1896.3	2021.8	2659.3	3116.5	3077.9	3081.1	3245.3	3493.2	2594.9	2260.1
70°	1197.7	1194.5	1262.1	1712.8	2508.0	2533.8	2405.0	2356.7	2234.4	1352.2	1432.6
72.5°	769.4	746.9	782.4	946.5	1297.5	1500.3	1545.3	1574.4	1294.2	1062.4	1152.6
75°	434.6	412.1	399.2	441.1	511.9	592.4	650.3	669.7	750.2	804.8	853.2
77.5°	132.0	119.1	144.9	193.2	254.3	341.3	415.3	428.2	505.4	569.9	618.1
80°	57.9	64.4	90.2	128.8	180.3	241.5	293.0	312.3	363.8	412.1	425.0
82.5°	35.4	38.6	61.1	87.0	125.6	170.6	209.2	215.7	267.2	305.9	315.5
85°	12.9	16.1	32.2	51.6	80.5	109.5	109.5	119.1	109.5	109.5	119.1
87.5°	0.0	0.0	3.2	6.5	6.5	9.7	12.9	12.9	16.1	19.3	22.5
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: P650900

CATALOG NUMBER: GALN-SA5C-840-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1
2.5°	8325.6	8309.6	8283.8	8190.4	8180.7	8151.8	7990.8	7965.0	7990.8	7913.6	7920.0
5°	8309.6	8357.9	8164.7	8071.3	7897.5	7771.9	7627.0	7552.9	7421.0	7337.3	7430.7
7.5°	8380.4	8361.1	8119.6	7916.8	7656.0	7337.3	7082.9	6938.1	6706.2	6641.9	6690.2
10°	8354.7	8251.6	7968.3	7701.0	7208.5	6928.4	6516.3	6117.1	5898.1	5785.5	5769.3
12.5°	8319.3	8290.2	7817.0	7356.6	6838.3	6249.1	5669.5	5292.8	4935.5	4781.0	4803.5
15°	8361.1	8116.4	7533.7	6950.9	6261.9	5489.3	4864.7	4378.5	4130.7	4030.8	4030.8
17.5°	8341.7	8032.6	7398.4	6497.0	5624.5	4710.1	4024.4	3731.4	3628.4	3628.4	3657.3
20°	8351.4	8087.4	7124.8	6043.0	4871.2	3966.4	3467.4	3361.1	3406.2	3422.4	3438.4
22.5°	8406.1	7907.1	6857.6	5544.0	4172.5	3393.4	3148.7	3151.9	3232.4	3319.3	3303.2
25°	8473.7	7836.3	6532.4	5048.2	3638.1	3113.3	3036.0	3026.3	3087.5	3132.6	3139.0
27.5°	8415.8	7714.0	6200.8	4430.1	3200.2	2926.5	2910.4	2916.8	2936.2	3026.3	2997.3
30°	8605.8	7749.4	5785.5	3911.7	2958.7	2865.4	2846.0	2836.4	2865.4	2891.1	2868.6
32.5°	8840.8	7623.8	5476.4	3412.7	2839.6	2820.3	2781.7	2768.7	2784.9	2759.2	2772.0
35°	8943.8	7601.3	5073.9	3055.4	2746.2	2730.1	2707.6	2704.4	2707.6	2685.1	2665.7
37.5°	9001.7	7707.5	4613.6	2891.1	2688.3	2704.4	2652.9	2646.5	2588.5	2601.4	2611.1
40°	9101.6	7543.3	4240.1	2733.3	2652.9	2620.6	2575.6	2566.0	2527.3	2504.8	2527.3
42.5°	8956.6	7495.0	3873.1	2665.7	2601.4	2566.0	2533.8	2479.0	2466.1	2446.8	2433.9
45°	8840.8	7218.1	3544.6	2582.0	2540.2	2520.9	2459.7	2401.7	2353.5	2372.8	2343.8
47.5°	8927.7	7121.6	3219.5	2511.2	2456.5	2433.9	2372.8	2327.7	2279.4	2256.9	2250.4
50°	9275.4	7301.8	2945.9	2459.7	2385.7	2372.8	2292.3	2240.8	2195.7	2179.6	2186.0
52.5°	10106.0	7794.5	2759.2	2353.5	2318.0	2260.1	2215.0	2150.6	2121.7	2070.1	2102.3
55°	11158.8	8596.1	2710.8	2253.6	2234.4	2182.8	2121.7	2073.4	2018.7	1976.8	1967.1
56°	11496.9	8979.2	2672.2	2215.0	2182.8	2153.9	2073.4	2044.4	1957.4	1947.8	1941.4
57.5°	11770.6	9317.3	2678.7	2140.9	2108.8	2083.0	2034.7	1963.9	1906.0	1870.6	1886.6
60°	11152.4	8721.7	2556.3	2028.3	2021.8	1973.6	1906.0	1873.7	1802.9	1761.1	1751.4
62.5°	8290.2	5920.6	2073.4	1883.4	1880.2	1828.7	1751.4	1716.0	1703.1	1645.2	1645.2
65°	4774.5	3712.1	1793.3	1764.2	1738.5	1687.0	1609.8	1580.7	1548.6	1529.3	1513.2
67.5°	2037.9	1925.3	1629.1	1625.8	1596.9	1532.5	1455.2	1410.1	1368.3	1329.6	1349.0
70°	1477.7	1500.3	1471.3	1455.2	1419.8	1339.3	1271.7	1217.0	1152.6	1126.9	1146.1
72.5°	1171.9	1220.2	1262.1	1265.3	1223.4	1130.1	1056.0	982.0	911.1	875.7	891.8
75°	888.6	920.8	962.6	972.3	911.1	846.7	775.9	698.6	643.9	602.1	608.5
77.5°	640.7	634.3	672.9	666.4	637.5	592.4	528.0	457.2	396.0	357.3	360.6
80°	437.8	447.5	470.0	466.8	431.4	402.4	354.1	296.2	251.1	218.9	212.5
82.5°	305.9	321.9	341.3	325.1	296.2	267.2	231.8	190.0	154.6	128.8	122.4
85°	109.5	125.6	144.9	154.6	164.2	157.8	132.0	106.2	77.3	64.4	61.1
87.5°	22.5	25.7	29.0	29.0	29.0	25.7	22.5	22.5	19.3	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)