

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: P530780

Luminaire Tested: **GALN-SA6A-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530780
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-SA6A-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 21412 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

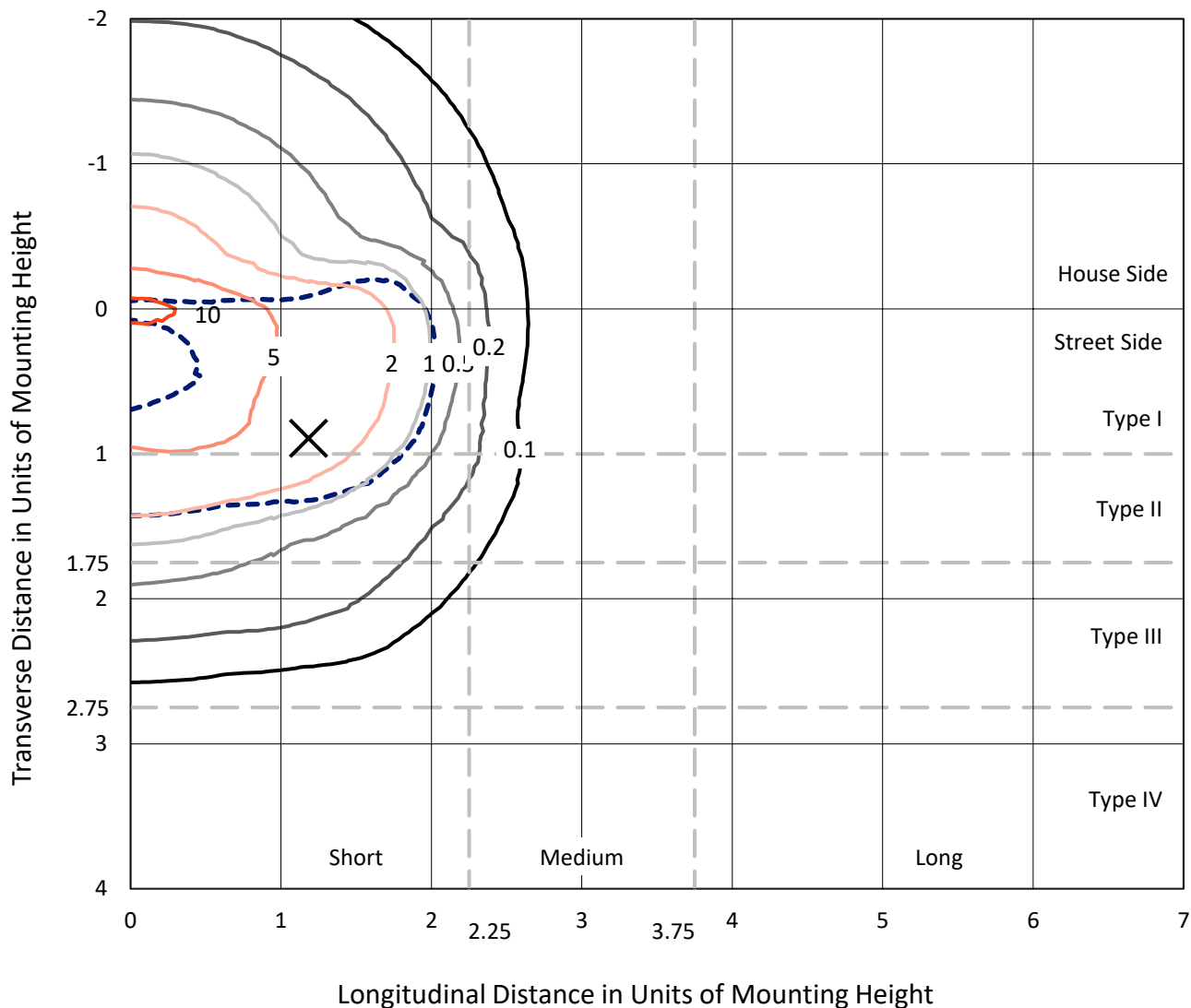
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530780
 CATALOG NUMBER: GALN-SA6A-735-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

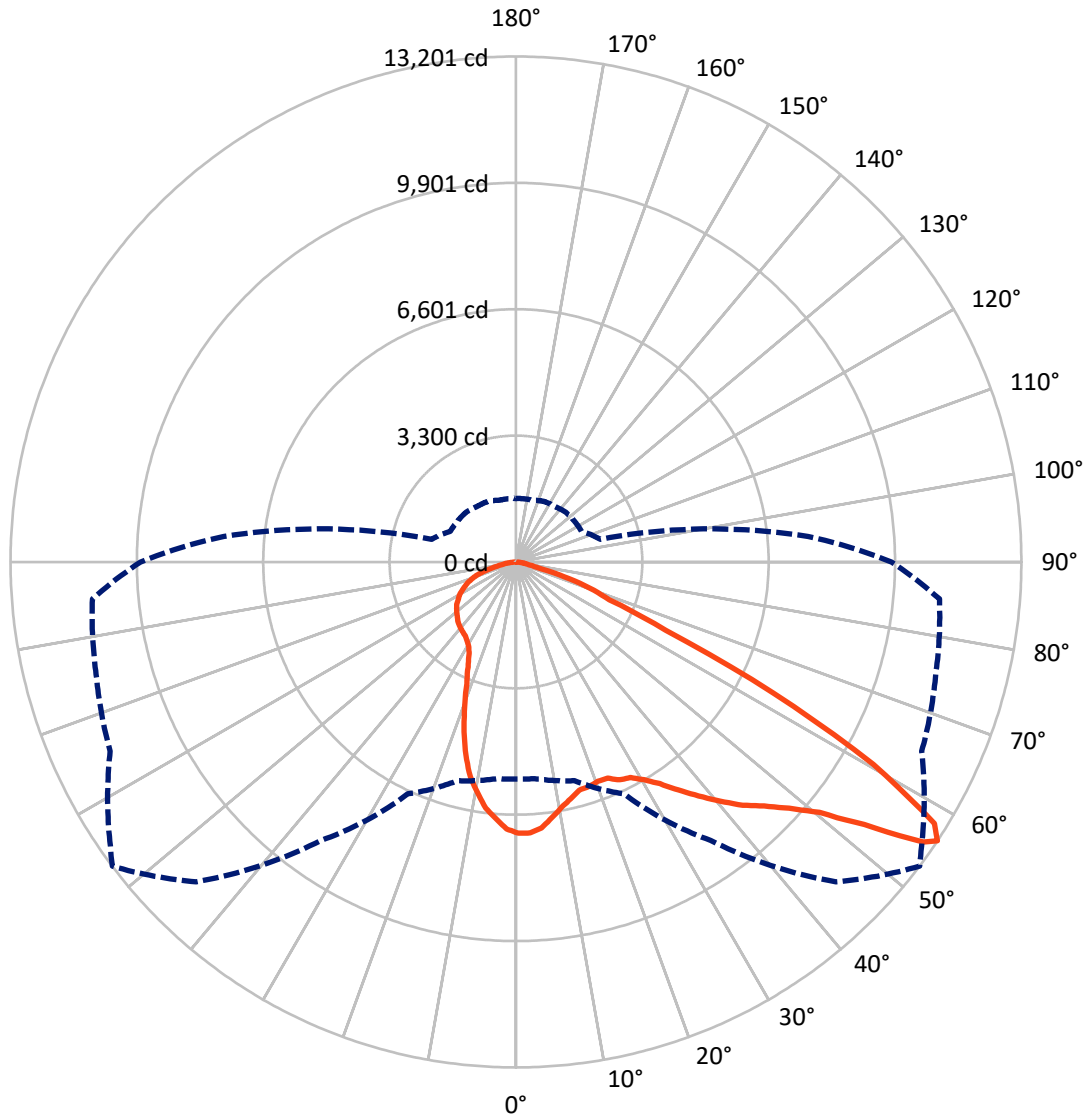
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

REPORT NUMBER: P530780
CATALOG NUMBER: GALN-SA6A-735-U-SL2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P530780
 CATALOG NUMBER: GALN-SA6A-735-U-SL2-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6248.5	0.0	6248.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	15163.5	0.0	15163.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	21412.0	0.0	21412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.1	2.9
10°-20°	1566.3	7.3
20°-30°	2309.6	10.8
30°-40°	3300.0	15.4
40°-50°	4542.1	21.2
50°-60°	5367.5	25.1
60°-70°	2860.5	13.4
70°-80°	725.7	3.4
80°-90°	113.2	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°	21412.0	100.0
0°-180°	21412.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530780

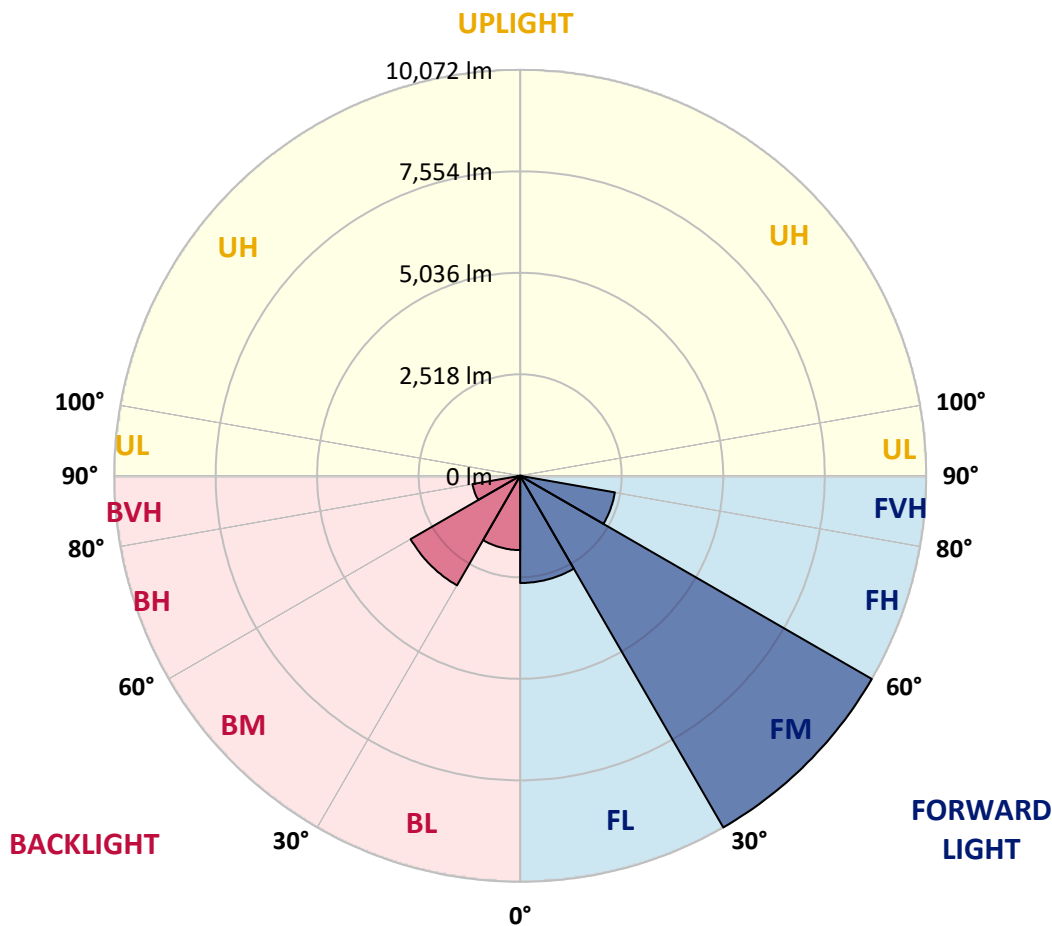
CATALOG NUMBER: GALN-SA6A-735-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2660.1	12.4			
FM (30°-60°)	10071.8	47.0			
FH (60°-80°)	2386.1	11.1			G2/5000
FVH (80°-90°)	45.5	0.2			G1/100
BL (0°-30°)	1842.9	8.6	B3/2500		
BM (30°-60°)	3137.8	14.7	B3/5000		
BH (60°-80°)	1200.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	67.7	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: P530780

CATALOG NUMBER: GALN-SA6A-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9
2.5°	6996.0	6935.6	6971.3	6957.6	7070.2	7103.2	7086.7	7100.4	7163.6	7133.4	7070.2
5°	6537.3	6622.5	6639.0	6680.2	6746.1	6875.2	6976.8	7004.3	7034.5	7174.6	7160.8
7.5°	6119.8	6177.5	6147.3	6268.1	6411.0	6619.7	6743.3	6765.3	7042.7	7119.6	7177.3
10°	5856.1	5798.4	5935.8	5968.7	6130.8	6369.8	6518.1	6608.7	6861.4	7166.3	7202.0
12.5°	5611.7	5592.4	5674.8	5768.2	5949.5	6196.7	6347.8	6383.5	6773.5	7094.9	7262.5
15°	5430.4	5408.4	5490.8	5559.5	5771.0	5990.7	6183.0	6284.6	6677.4	7053.7	7210.3
17.5°	5287.5	5284.8	5331.5	5455.1	5672.1	5856.1	6166.5	6172.0	6628.0	7116.9	7254.2
20°	5279.3	5276.6	5284.8	5422.1	5619.9	5845.1	6114.3	6163.8	6628.0	7072.9	7257.0
22.5°	5348.0	5304.0	5353.5	5441.4	5584.2	5864.4	6133.5	6243.4	6787.3	7289.9	7380.6
25°	5457.8	5468.8	5496.3	5526.5	5608.9	5908.3	6303.8	6394.5	6974.1	7476.7	7550.9
27.5°	5658.4	5652.9	5663.9	5680.3	5751.7	5949.5	6372.5	6606.0	7364.1	7809.1	7734.9
30°	5952.3	5933.0	5977.0	6034.7	5968.7	6081.4	6600.5	6776.3	7726.7	8144.2	7940.9
32.5°	6218.7	6290.1	6372.5	6397.2	6317.6	6339.6	6902.6	7081.2	8028.8	8556.2	8193.6
35°	6551.1	6608.7	6718.6	6795.5	6781.8	6715.9	7314.7	7550.9	8465.6	8858.4	8460.1
37.5°	6875.2	6943.8	7125.1	7353.1	7226.8	7196.6	7754.1	7949.2	8600.2	9020.4	8655.1
40°	7397.1	7394.3	7707.5	7825.6	7938.2	7886.0	8210.1	8276.0	8671.6	8984.7	8660.6
42.5°	8009.6	7971.1	8289.8	8473.8	8619.4	8624.9	8685.3	8663.3	8704.5	8803.4	8602.9
45°	8591.9	8674.3	8995.7	9325.3	9470.9	9487.4	9086.3	9045.1	8762.2	8751.2	8493.0
47.5°	9303.3	9322.6	9586.2	10020.2	10358.1	10242.7	9605.5	9514.8	9014.9	9100.1	8677.1
50°	9344.5	9487.4	9723.6	10234.5	11272.8	11242.6	10278.4	10108.1	9421.4	9594.5	9190.7
52.5°	8482.0	8449.1	8729.3	9564.3	11204.1	12236.9	11393.6	10987.1	10294.9	10163.1	10023.0
55°	6463.2	6540.1	6787.3	7630.5	9729.1	12250.6	12912.6	12580.2	11228.8	11003.6	10841.5
56°	5669.3	5680.3	5913.8	6682.9	8877.6	11813.9	13201.0	12931.8	11693.0	11349.7	11102.5
57.5°	4699.7	4636.6	4757.4	5177.7	7493.2	10891.0	12885.1	13148.8	12236.9	11723.2	11379.9
60°	3699.9	3686.2	3636.7	3713.6	4735.4	8204.6	10726.2	11319.5	12181.9	11371.6	10899.2
62.5°	3021.5	2952.8	3051.7	3161.5	3290.6	5089.8	7537.2	7886.0	9671.4	9078.1	8188.1
65°	2343.0	2310.0	2433.6	2790.7	2867.6	3233.0	4293.2	4562.4	5710.5	5608.9	4938.7
67.5°	1612.4	1617.9	1725.0	2268.8	2658.9	2625.9	2628.7	2768.7	2980.3	2213.9	1928.2
70°	1021.8	1019.1	1076.7	1461.3	2139.7	2161.7	2051.8	2010.6	1906.3	1153.6	1222.3
72.5°	656.5	637.3	667.5	807.6	1107.0	1280.0	1318.5	1343.2	1104.2	906.4	983.3
75°	370.8	351.6	340.6	376.3	436.7	505.4	554.8	571.3	640.0	686.7	727.9
77.5°	112.6	101.6	123.6	164.8	217.0	291.2	354.3	365.3	431.2	486.2	527.4
80°	49.4	54.9	76.9	109.9	153.8	206.0	250.0	266.4	310.4	351.6	362.6
82.5°	30.2	33.0	52.2	74.2	107.1	145.6	178.5	184.0	228.0	260.9	269.2
85°	11.0	13.7	27.5	43.9	68.7	93.4	93.4	101.6	93.4	93.4	101.6
87.5°	0.0	0.0	2.7	5.5	5.5	8.2	11.0	11.0	13.7	16.5	19.2
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: P530780

CATALOG NUMBER: GALN-SA6A-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9	7083.9
2.5°	7103.2	7089.4	7067.5	6987.8	6979.6	6954.8	6817.5	6795.5	6817.5	6751.6	6757.1
5°	7089.4	7130.6	6965.8	6886.2	6737.8	6630.7	6507.1	6443.9	6331.3	6259.9	6339.6
7.5°	7149.9	7133.4	6927.4	6754.3	6531.8	6259.9	6042.9	5919.3	5721.5	5666.6	5707.8
10°	7127.9	7040.0	6798.3	6570.3	6150.0	5911.1	5559.5	5218.9	5032.1	4936.0	4922.2
12.5°	7097.7	7072.9	6669.2	6276.4	5834.2	5331.5	4837.1	4515.7	4210.8	4079.0	4098.2
15°	7133.4	6924.6	6427.5	5930.3	5342.5	4683.3	4150.4	3735.6	3524.1	3439.0	3439.0
17.5°	7116.9	6853.2	6312.1	5543.0	4798.6	4018.5	3433.5	3183.5	3095.6	3095.6	3120.3
20°	7125.1	6899.9	6078.6	5155.7	4155.9	3384.0	2958.3	2867.6	2906.1	2919.8	2933.6
22.5°	7171.8	6746.1	5850.6	4729.9	3559.8	2895.1	2686.3	2689.1	2757.8	2831.9	2818.2
25°	7229.5	6685.7	5573.2	4306.9	3103.9	2656.1	2590.2	2582.0	2634.2	2672.6	2678.1
27.5°	7180.1	6581.3	5290.3	3779.6	2730.3	2496.8	2483.1	2488.6	2505.1	2582.0	2557.2
30°	7342.1	6611.5	4936.0	3337.3	2524.3	2444.6	2428.1	2419.9	2444.6	2466.6	2447.4
32.5°	7542.6	6504.4	4672.3	2911.6	2422.7	2406.2	2373.2	2362.2	2376.0	2354.0	2365.0
35°	7630.5	6485.1	4328.9	2606.7	2343.0	2329.3	2310.0	2307.3	2310.0	2290.8	2274.3
37.5°	7680.0	6575.8	3936.1	2466.6	2293.6	2307.3	2263.3	2257.8	2208.4	2219.4	2227.6
40°	7765.1	6435.7	3617.5	2332.0	2263.3	2235.9	2197.4	2189.2	2156.2	2137.0	2156.2
42.5°	7641.5	6394.5	3304.4	2274.3	2219.4	2189.2	2161.7	2115.0	2104.0	2087.5	2076.6
45°	7542.6	6158.3	3024.2	2202.9	2167.2	2150.7	2098.5	2049.1	2007.9	2024.4	1999.7
47.5°	7616.8	6075.9	2746.8	2142.5	2095.8	2076.6	2024.4	1985.9	1944.7	1925.5	1920.0
50°	7913.5	6229.7	2513.3	2098.5	2035.4	2024.4	1955.7	1911.8	1873.3	1859.6	1865.1
52.5°	8622.1	6649.9	2354.0	2007.9	1977.7	1928.2	1889.8	1834.8	1810.1	1766.2	1793.6
55°	9520.3	7333.9	2312.8	1922.7	1906.3	1862.3	1810.1	1768.9	1722.2	1686.5	1678.3
56°	9808.7	7660.8	2279.8	1889.8	1862.3	1837.6	1768.9	1744.2	1670.0	1661.8	1656.3
57.5°	10042.2	7949.2	2285.3	1826.6	1799.1	1777.2	1736.0	1675.5	1626.1	1595.9	1609.6
60°	9514.8	7441.0	2180.9	1730.5	1725.0	1683.8	1626.1	1598.6	1538.2	1502.5	1494.2
62.5°	7072.9	5051.3	1768.9	1606.9	1604.1	1560.2	1494.2	1464.0	1453.0	1403.6	1403.6
65°	4073.5	3167.0	1530.0	1505.2	1483.3	1439.3	1373.4	1348.7	1321.2	1304.7	1291.0
67.5°	1738.7	1642.6	1389.9	1387.1	1362.4	1307.5	1241.5	1203.1	1167.4	1134.4	1150.9
70°	1260.8	1280.0	1255.3	1241.5	1211.3	1142.7	1085.0	1038.3	983.3	961.4	977.9
72.5°	999.8	1041.0	1076.7	1079.5	1043.8	964.1	900.9	837.8	777.3	747.1	760.9
75°	758.1	785.6	821.3	829.5	777.3	722.4	662.0	596.1	549.4	513.6	519.1
77.5°	546.6	541.1	574.1	568.6	543.9	505.4	450.5	390.0	337.9	304.9	307.6
80°	373.6	381.8	401.0	398.3	368.1	343.3	302.1	252.7	214.2	186.8	181.3
82.5°	260.9	274.7	291.2	277.4	252.7	228.0	197.8	162.1	131.8	109.9	104.4
85°	93.4	107.1	123.6	131.8	140.1	134.6	112.6	90.6	65.9	54.9	52.2
87.5°	19.2	22.0	24.7	24.7	24.7	22.0	19.2	19.2	16.5	8.2	8.2
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)