

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: P456246

Luminaire Tested: **GALN-SA7C-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41908 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

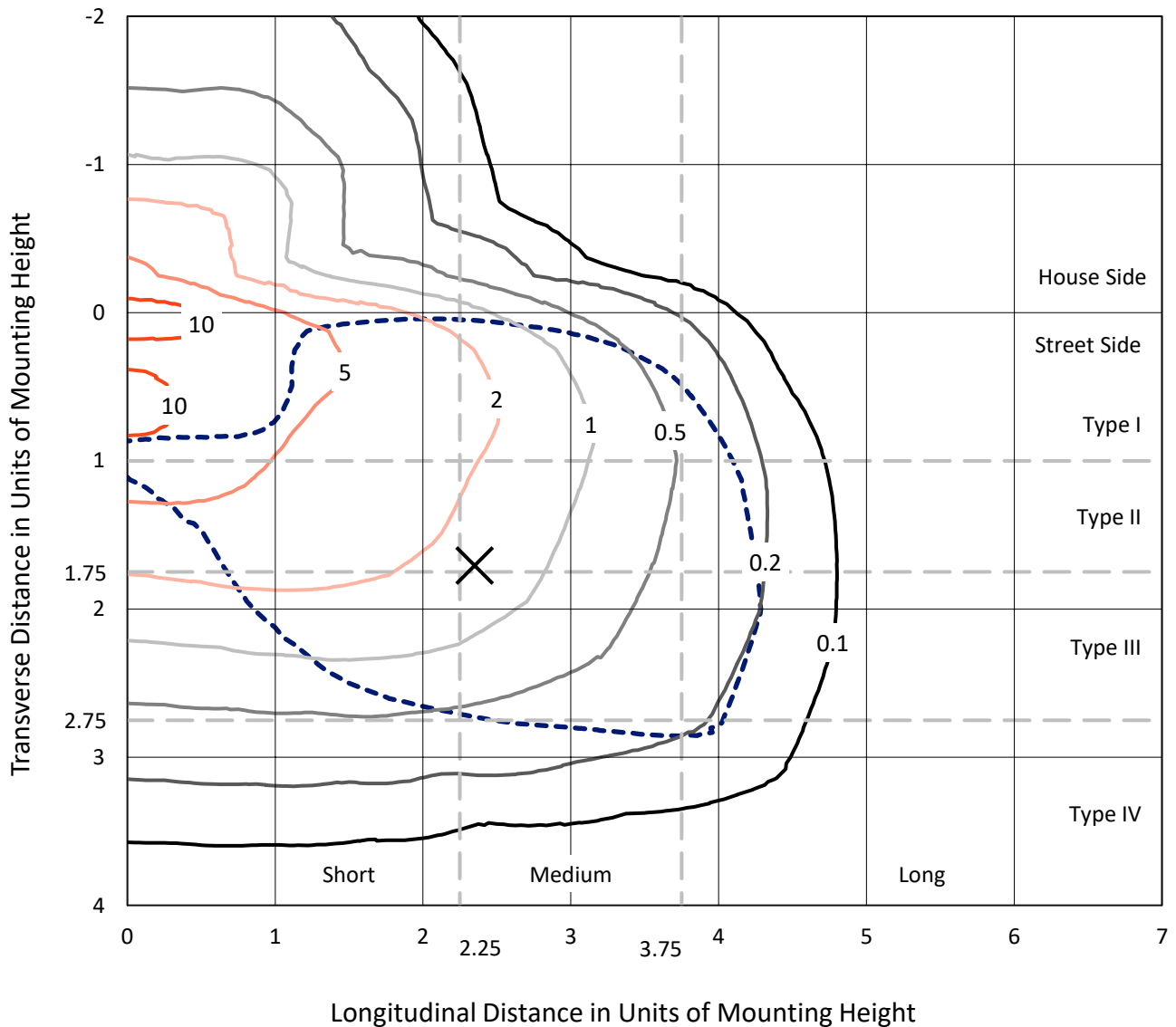
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456246
 CATALOG NUMBER: GALN-SA7C-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

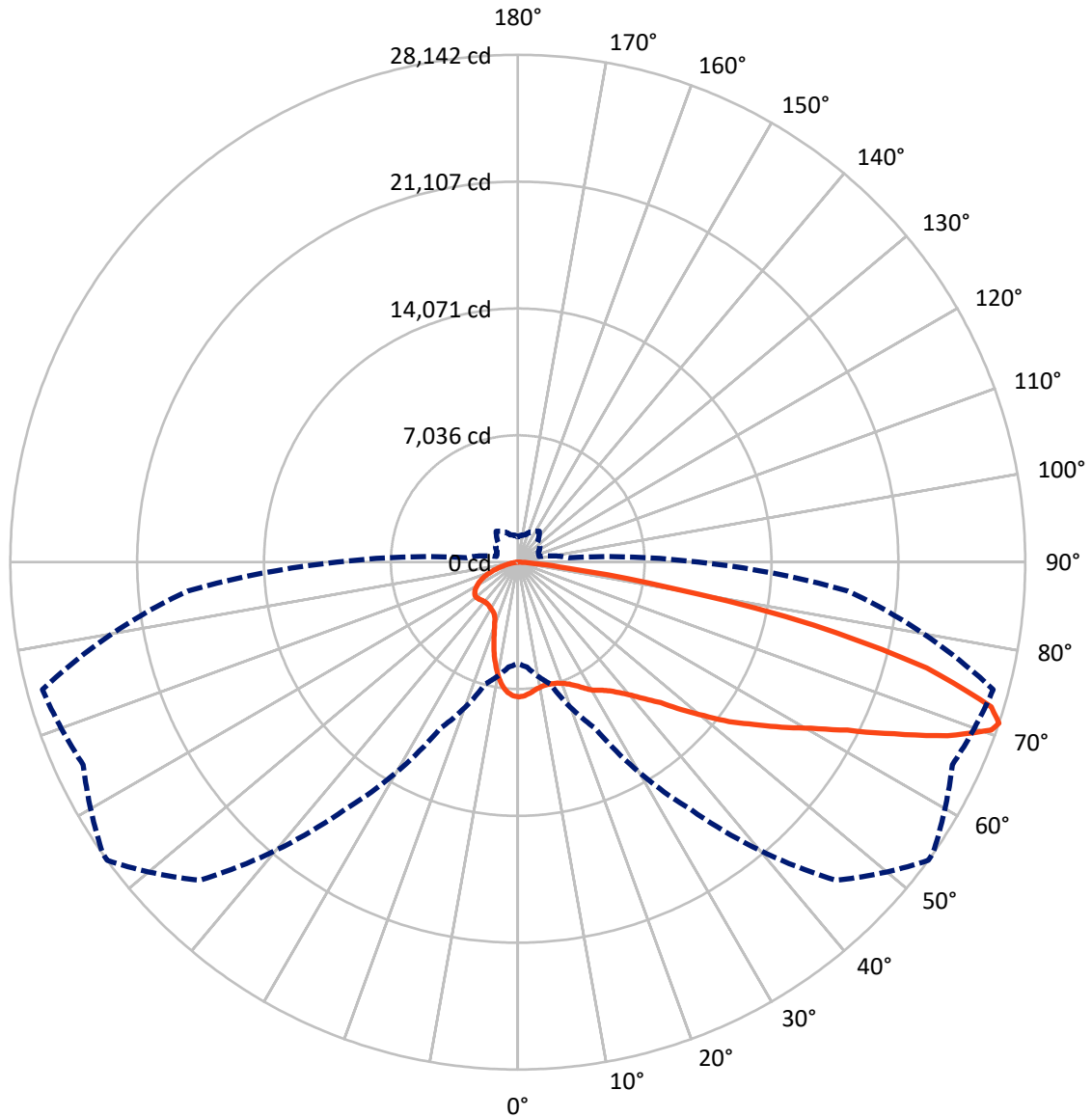
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P456246
CATALOG NUMBER: GALN-SA7C-727-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P456246

CATALOG NUMBER: GALN-SA7C-727-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7566.2	0.0	7566.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34341.8	0.0	34341.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	41908.0	0.0	41908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.3	1.6
10°-20°	1759.4	4.2
20°-30°	2929.5	7.0
30°-40°	4331.7	10.3
40°-50°	6101.4	14.6
50°-60°	8170.1	19.5
60°-70°	10297.7	24.6
70°-80°	7033.3	16.8
80°-90°	618.5	1.5
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°	41908.0	100.0
0°-180°	41908.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456246

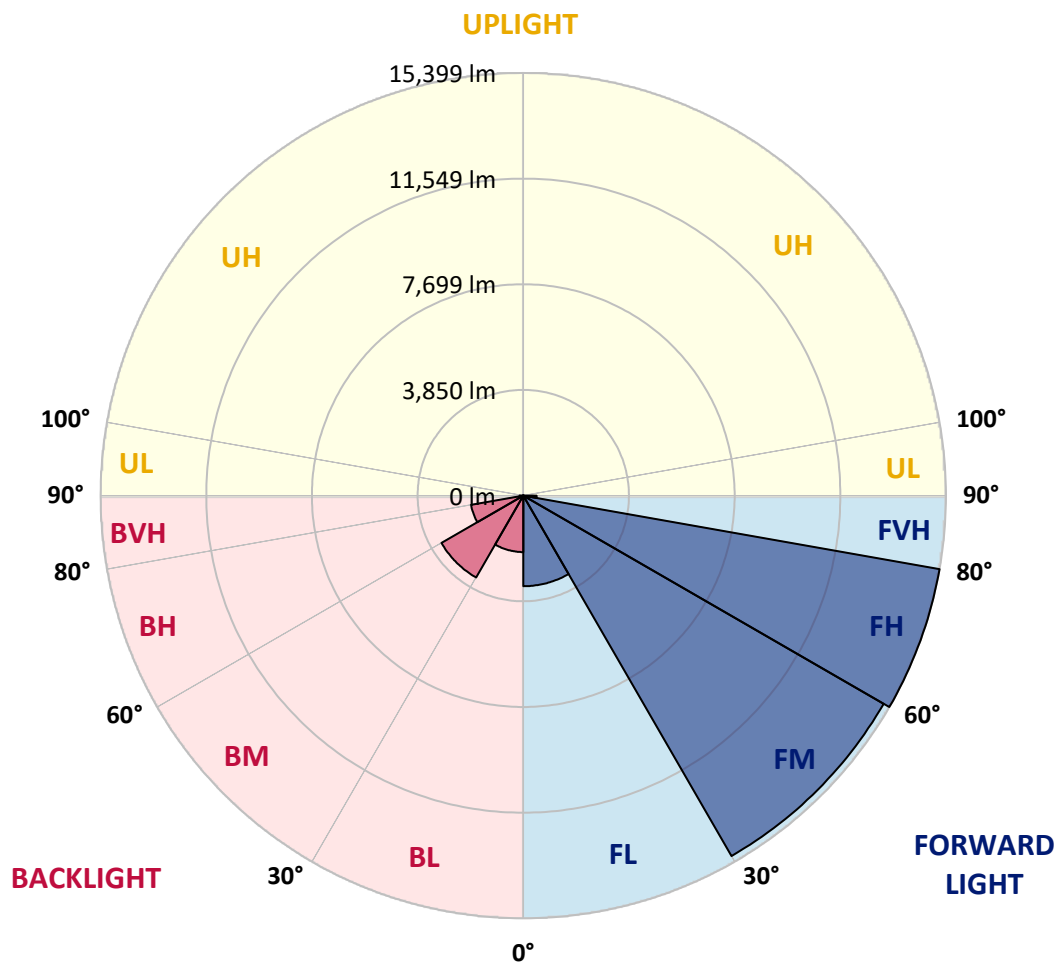
CATALOG NUMBER: GALN-SA7C-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3298.8	7.9			
FM	(30°-60°)	15160.8	36.2			
FH	(60°-80°)	15398.6	36.7			G5
FVH	(80°-90°)	483.5	1.2			G3/500
BL	(0°-30°)	2056.4	4.9	B3/2500		
BM	(30°-60°)	3442.4	8.2	B3/5000		
BH	(60°-80°)	1932.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	135.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





REPORT NUMBER: P456246

CATALOG NUMBER: GALN-SA7C-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0
2.5°	7223.5	7257.4	7266.5	7289.1	7336.7	7375.1	7413.6	7409.1	7463.4	7486.1	7506.4
5°	6902.0	6911.1	6945.0	6990.3	7074.1	7180.5	7284.6	7286.9	7420.4	7526.8	7578.9
7.5°	6666.6	6696.0	6718.7	6766.2	6854.5	6969.9	7135.2	7148.8	7386.5	7597.0	7707.9
10°	6512.7	6546.6	6571.5	6630.4	6718.7	6847.7	7026.5	7051.4	7361.6	7707.9	7902.6
12.5°	6372.3	6406.3	6428.9	6505.9	6621.3	6779.8	6981.3	7010.7	7370.6	7836.9	8115.4
15°	6458.3	6485.5	6476.5	6499.1	6576.1	6757.2	6999.4	7028.8	7404.6	7961.4	8325.9
17.5°	6840.9	6863.5	6788.8	6702.8	6666.6	6800.2	7056.0	7087.7	7472.5	8090.5	8540.9
20°	7404.6	7465.7	7302.7	7110.3	6936.0	6954.1	7173.7	7207.6	7567.6	8219.5	8760.5
22.5°	8138.0	8183.3	7984.1	7667.2	7345.7	7180.5	7350.2	7370.6	7710.2	8387.0	9000.5
25°	9000.5	9027.6	8751.5	8344.0	7879.9	7567.6	7592.5	7628.7	7945.6	8577.2	9213.3
27.5°	9838.0	9924.1	9604.9	9106.9	8495.7	7975.0	7925.2	7947.9	8201.4	8683.6	9360.4
30°	10831.8	10825.0	10487.7	9910.5	9127.2	8418.7	8239.9	8235.3	8339.5	8735.6	9466.8
32.5°	11624.1	11716.9	11386.4	10757.1	9849.4	8878.2	8457.2	8448.1	8445.9	8826.2	9625.3
35°	12525.1	12538.6	12235.3	11601.5	10630.3	9455.5	8760.5	8715.3	8663.2	9020.9	9840.3
37.5°	13330.9	13394.3	13115.9	12405.1	11397.7	10055.4	9177.0	9147.6	8989.2	9358.1	10184.4
40°	13960.3	14007.8	13840.3	13163.4	12153.8	10702.8	9706.8	9652.4	9460.0	9910.5	10643.9
42.5°	14166.2	14263.6	14329.2	13996.5	13023.1	11470.2	10358.7	10290.8	10143.6	10748.1	11173.6
45°	14182.1	14336.0	14682.4	14698.2	13896.9	12389.2	11119.3	11071.8	11060.4	11821.1	11918.4
47.5°	14062.1	14218.3	14800.1	15114.7	14675.6	13317.4	12217.2	12142.5	12149.3	13147.6	12753.7
50°	13772.4	13958.0	14664.3	15381.9	15284.5	14281.7	13376.2	13351.3	13491.7	14662.0	13620.7
52.5°	13226.8	13450.9	14523.9	15549.4	15737.3	15112.5	14693.7	14623.5	14978.9	16305.4	14569.2
55°	11716.9	12054.2	14010.1	15642.2	16167.4	15907.0	15879.9	16006.6	16477.5	18098.3	15612.8
57.5°	10929.2	11182.7	12894.0	15658.0	16710.6	16830.6	17265.3	17296.9	18120.9	20002.1	16792.1
60°	10499.0	10723.2	12282.8	15553.9	17469.0	17973.8	18682.3	18795.5	19725.9	22064.3	18014.5
62.5°	10123.3	10315.7	11916.1	15194.0	18324.7	19669.3	20518.2	20572.5	21548.2	24341.6	19221.1
65°	9238.2	9457.7	11178.2	14834.0	19062.6	21788.1	22953.9	22890.6	23488.2	26306.5	19977.2
67.5°	8045.2	8323.6	9799.6	13591.3	19427.1	24103.9	25697.5	25618.3	25403.3	27594.5	20194.5
70°	6521.7	6671.1	8036.1	11443.0	17971.5	25319.5	27863.9	27780.2	26589.4	27764.3	19166.8
71°	5611.7	5844.9	6997.1	10164.0	16760.4	24948.3	28142.3	28119.7	26591.7	27295.7	18392.6
72.5°	4380.3	4522.9	5541.5	7875.4	14245.5	22838.5	27454.2	27540.2	26014.5	25994.1	16796.7
75°	2770.8	2834.2	3477.0	4636.1	7816.6	16174.2	23436.1	23669.3	23098.8	21276.5	12491.1
77.5°	1609.5	1691.0	2082.6	2732.3	3377.4	8778.6	16769.5	17023.0	16049.6	11714.7	5113.7
80°	937.2	1027.7	1371.8	1586.9	1550.6	3257.5	8538.7	8971.1	6949.6	2958.7	1435.2
82.5°	520.7	581.8	964.3	966.6	826.3	1063.9	2687.0	2811.5	1983.0	1193.0	586.3
85°	378.0	427.8	622.5	563.7	396.1	457.3	934.9	980.2	801.4	502.5	190.2
87.5°	133.6	190.2	341.8	271.6	108.7	95.1	269.4	219.6	203.7	140.3	43.0
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: P456246
 CATALOG NUMBER: GALN-SA7C-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0	7477.0
2.5°	7517.8	7522.3	7499.6	7458.9	7418.2	7366.1	7307.2	7262.0	7241.6	7239.3	7237.1
5°	7599.2	7610.6	7524.5	7397.8	7257.4	7085.4	6938.2	6770.7	6727.7	6659.8	6680.2
7.5°	7730.5	7723.8	7554.0	7284.6	6956.4	6591.9	6284.0	6105.2	5919.6	5867.5	5869.8
10°	7918.4	7875.4	7554.0	7053.7	6505.9	5964.9	5534.8	5263.1	5116.0	4993.7	4948.5
12.5°	8117.6	8009.0	7481.5	6730.0	5926.4	5263.1	4801.3	4434.6	4339.5	4239.9	4242.2
15°	8307.8	8126.7	7338.9	6275.0	5301.6	4513.8	4065.6	3846.0	3816.6	3827.9	3825.7
17.5°	8479.8	8210.4	7121.6	5767.9	4572.7	3870.9	3633.2	3649.1	3728.3	3784.9	3791.7
20°	8654.1	8260.2	6797.9	5088.8	3884.5	3481.6	3490.6	3615.1	3735.1	3812.1	3823.4
22.5°	8819.4	8282.9	6417.6	4432.3	3386.5	3316.3	3449.9	3583.4	3701.2	3775.9	3787.2
25°	8928.0	8230.8	5878.8	3746.4	3142.0	3257.5	3397.8	3511.0	3610.6	3687.6	3705.7
27.5°	8957.5	8063.3	5211.0	3191.8	3028.8	3200.9	3329.9	3413.7	3490.6	3563.1	3576.6
30°	8941.6	7816.6	4477.6	2865.8	2963.2	3135.2	3234.8	3296.0	3388.8	3445.4	3456.7
32.5°	8916.7	7529.1	3712.5	2691.5	2908.9	3074.1	3133.0	3187.3	3185.0	3162.4	3178.2
35°	8925.8	7185.0	3092.2	2587.4	2861.3	3028.8	3078.6	3010.7	2816.0	2807.0	2797.9
37.5°	8973.3	6845.4	2641.7	2515.0	2836.4	3022.0	3049.2	2736.8	2564.8	2485.5	2465.2
40°	9095.6	6449.3	2345.2	2460.6	2834.2	3074.1	2915.6	2598.7	2268.2	2114.3	2103.0
42.5°	9258.5	6059.9	2164.1	2426.7	2861.3	3153.3	2861.3	2404.1	2044.1	1953.6	1940.0
45°	9500.8	5614.0	2064.5	2410.8	2902.1	3182.8	2843.2	2261.4	1953.6	1881.1	1881.1
47.5°	9774.7	5188.4	2010.2	2399.5	2954.1	3162.4	2682.5	2216.2	1910.6	1919.6	1962.6
50°	10046.3	4819.4	1969.4	2374.6	2999.4	3151.1	2616.8	2213.9	1921.9	2037.3	2114.3
52.5°	10361.0	4559.1	1919.6	2333.9	2999.4	3078.6	2596.5	2259.2	1953.6	1987.5	2021.5
55°	10741.3	4477.6	1856.2	2245.6	2945.1	2897.5	2585.1	2324.8	1976.2	1897.0	1910.6
57.5°	11243.8	4608.9	1795.1	2134.7	2820.6	2709.7	2580.6	2342.9	1924.1	1858.5	1844.9
60°	11827.8	4869.2	1777.0	2021.5	2650.8	2548.9	2553.5	2290.9	1851.7	1783.8	1795.1
62.5°	12237.6	5025.4	1765.7	1935.5	2465.2	2372.4	2487.8	2227.5	1820.0	1761.2	1772.5
65°	12237.6	4835.3	1661.6	1804.2	2225.2	2159.6	2408.6	2148.3	1779.3	1711.4	1700.0
67.5°	11773.5	4280.7	1503.1	1607.2	1960.4	1917.4	2297.7	2053.2	1718.1	1666.1	1638.9
70°	10564.7	3246.1	1303.9	1376.3	1625.3	1663.8	2155.0	1924.1	1616.3	1552.9	1512.2
71°	10032.7	2827.4	1220.1	1258.6	1496.3	1552.9	2087.1	1869.8	1571.0	1480.5	1408.0
72.5°	9007.3	2381.4	1093.4	1109.2	1279.0	1380.9	1944.5	1765.7	1485.0	1356.0	1274.5
75°	6843.2	1738.5	880.6	871.5	946.2	1095.6	1645.7	1573.3	1301.6	1127.3	1079.8
77.5°	2956.4	946.2	658.7	665.5	642.9	830.8	1294.8	1351.4	1116.0	916.8	873.8
80°	896.4	545.6	450.5	459.5	430.1	556.9	912.3	1059.4	896.4	713.1	654.2
82.5°	459.5	326.0	307.9	303.3	273.9	314.7	552.3	724.4	640.6	445.9	393.9
85°	199.2	174.3	151.7	147.1	129.0	113.2	196.9	362.2	339.6	249.0	237.7
87.5°	49.8	45.3	29.4	27.2	15.8	2.3	0.0	0.0	0.0	0.0	0.0
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)