

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: P531910

Luminaire Tested: **GALN-SA7B-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28259 lumens
Efficiency: N/A
Efficacy: 98.8 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

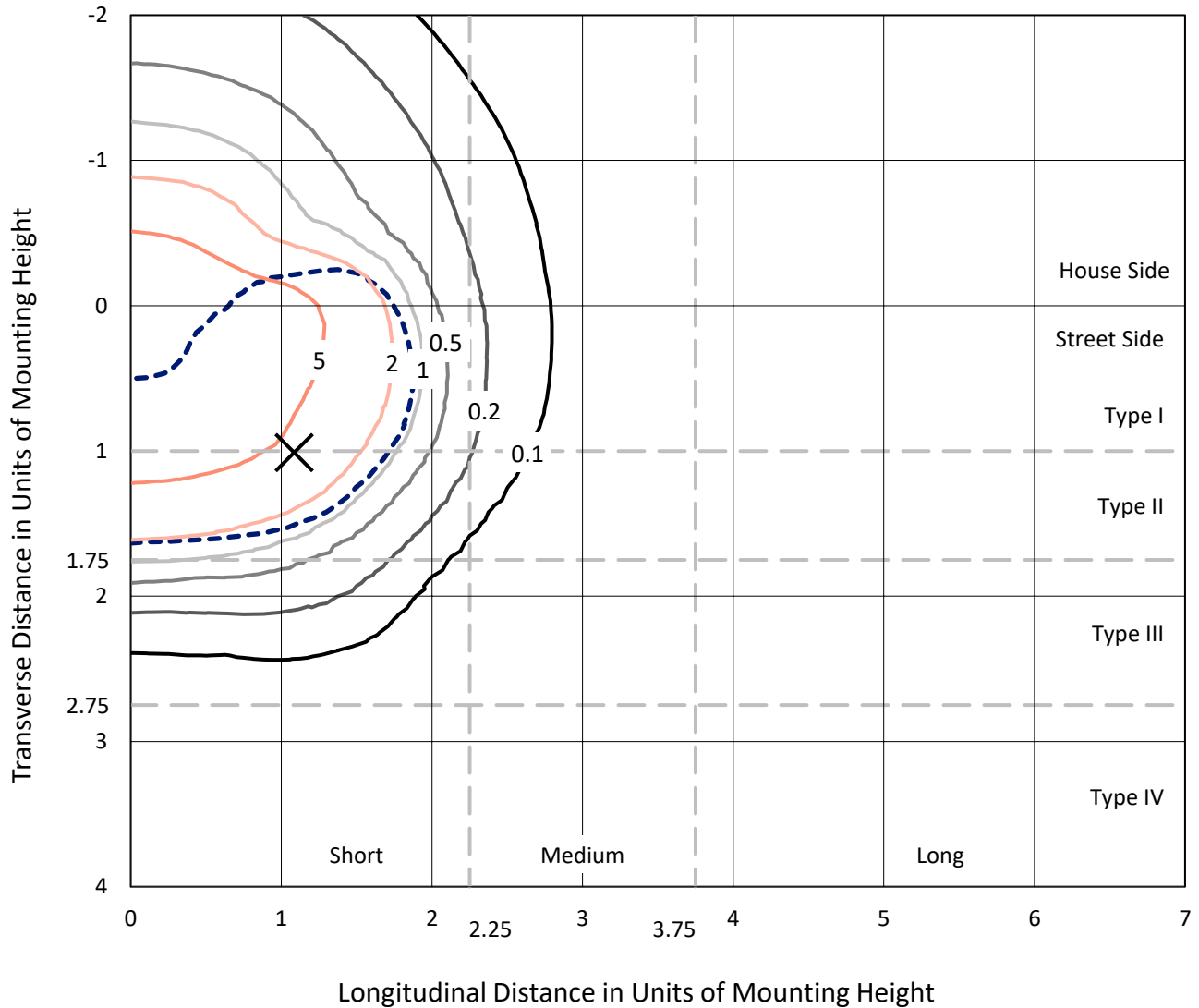
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

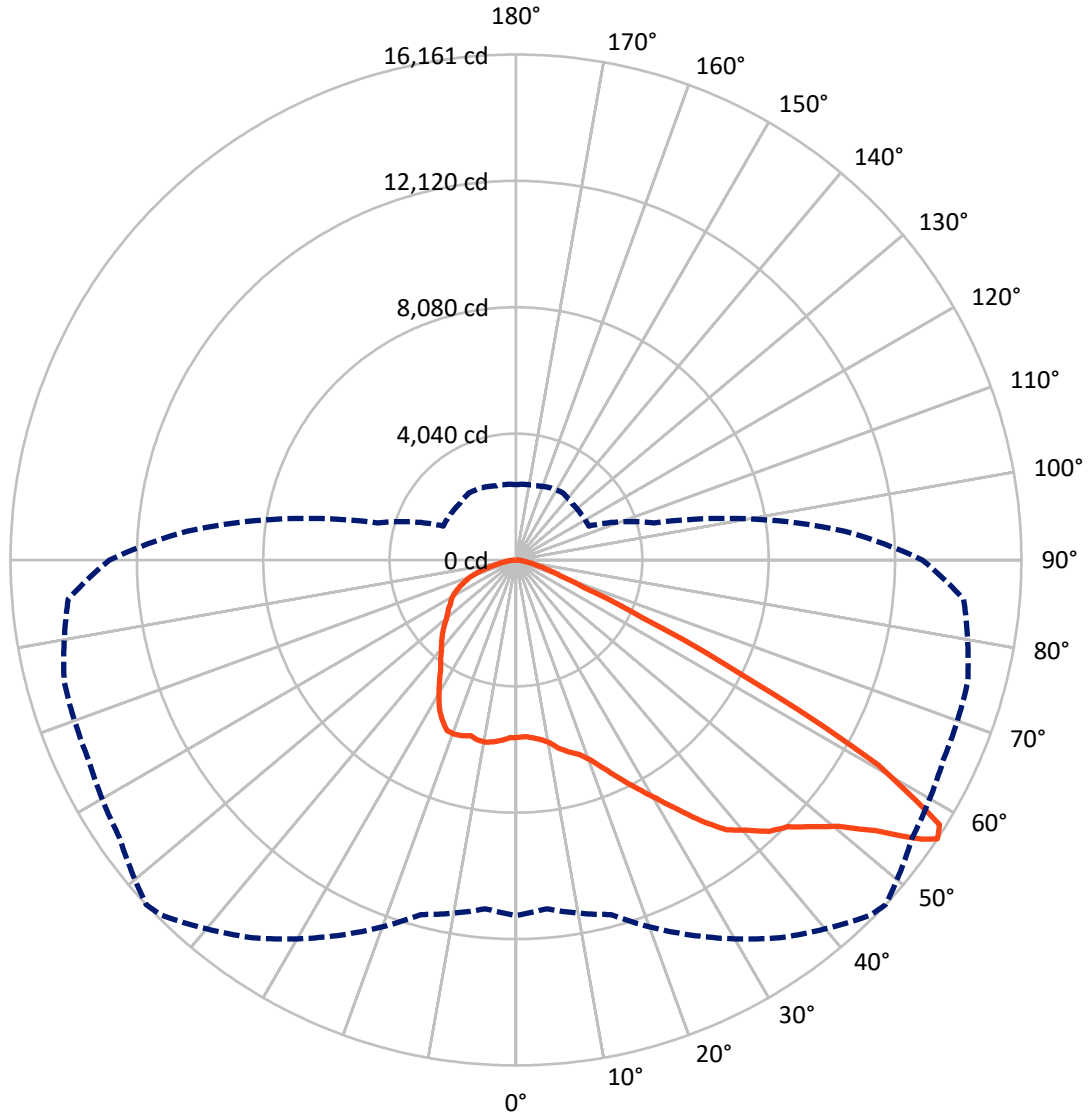
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8954.9	0.0	8954.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	19304.1	0.0	19304.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	28259.0	0.0	28259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.1	2.0
10°-20°	1744.7	6.2
20°-30°	3084.2	10.9
30°-40°	4632.4	16.4
40°-50°	6357.5	22.5
50°-60°	7574.1	26.8
60°-70°	3241.3	11.5
70°-80°	917.3	3.2
80°-90°	154.4	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°	28259.0	100.0
0°-180°	28259.0	100.0

Coefficient of Utilization



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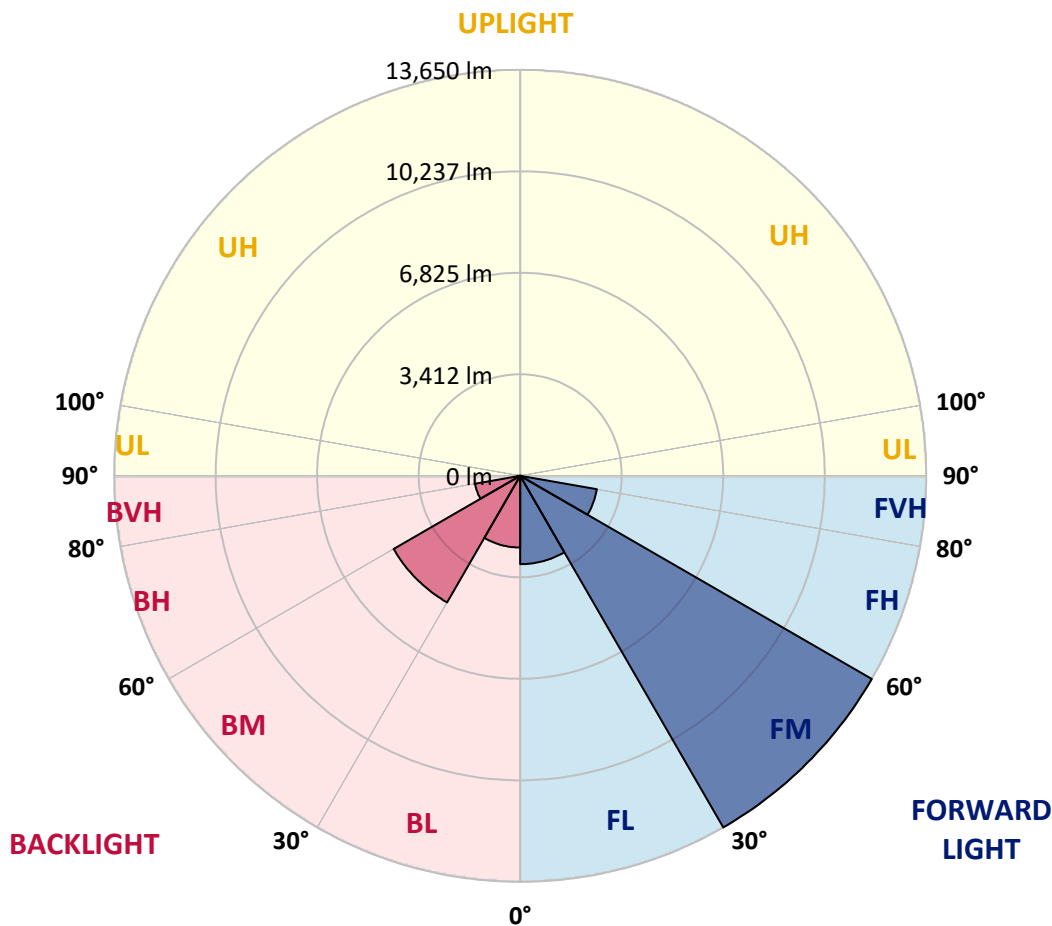
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2971.0	10.5			
FM (30°-60°)	13649.8	48.3			
FH (60°-80°)	2617.8	9.3			G2/5000
FVH (80°-90°)	65.5	0.2			G1/100
BL (0°-30°)	2411.0	8.5	B3/2500		
BM (30°-60°)	4914.3	17.4	B3/5000		
BH (60°-80°)	1540.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	88.8	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°	47°	55°	65°	75°	85°
0°	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4
2.5°	5654.8	5643.9	5636.7	5694.4	5672.8	5676.4	5654.8	5676.4	5690.8	5658.4	5705.2
5°	5643.9	5676.4	5647.5	5665.6	5712.4	5698.0	5712.4	5755.7	5744.9	5734.0	5719.6
7.5°	5744.9	5748.5	5770.1	5777.3	5791.7	5777.3	5798.9	5838.6	5827.7	5766.5	5773.7
10°	5889.0	5896.2	5899.8	5939.5	5964.7	5968.3	5943.1	5907.0	5903.4	5986.3	5928.7
12.5°	6054.8	6036.8	6080.0	6094.4	6123.3	6155.7	6188.1	6112.5	6159.3	6162.9	6094.4
15°	6296.3	6314.3	6263.8	6263.8	6274.6	6278.3	6368.4	6332.3	6325.1	6285.5	6314.3
17.5°	6656.7	6534.1	6530.5	6480.1	6472.9	6501.7	6534.1	6563.0	6660.3	6581.0	6426.0
20°	6919.8	6948.6	6844.1	6782.8	6793.6	6858.5	6826.1	6955.8	7024.3	6894.5	6743.2
22.5°	7384.7	7287.4	7312.6	7175.7	7186.5	7254.9	7251.3	7384.7	7424.3	7218.9	6999.1
25°	7698.2	7673.0	7694.6	7586.5	7600.9	7655.0	7741.5	7961.3	7896.5	7669.4	7161.2
27.5°	8156.0	8105.5	8087.5	8047.8	8033.4	8177.6	8278.5	8512.8	8465.9	8134.3	7449.6
30°	8624.5	8592.0	8610.1	8447.9	8505.6	8811.9	8840.7	9161.5	9139.9	8556.0	7770.3
32.5°	8948.8	8966.9	8999.3	8909.2	9165.1	9410.2	9507.5	9871.5	9889.5	9280.4	8390.2
35°	9471.4	9410.2	9428.2	9532.7	9651.6	10098.5	10257.1	10498.6	10650.0	10040.9	8984.9
37.5°	9799.4	9864.3	9788.6	9954.4	10264.3	10801.3	10945.5	11194.2	11352.7	10790.5	9795.8
40°	10311.2	10206.7	10260.7	10379.7	10696.8	11396.0	11356.4	11612.2	11662.7	11428.4	10552.7
42.5°	10862.6	10812.1	10736.5	11006.8	11273.5	11781.6	11860.9	11742.0	11997.9	12051.9	11633.9
45°	11522.1	11583.4	11594.2	11601.4	11835.7	12279.0	12170.9	12066.4	12361.9	12754.7	12304.2
47.5°	12134.8	11940.2	12080.8	12275.4	12607.0	12610.6	12736.7	12488.0	12801.6	13151.2	12909.7
50°	12340.3	12246.6	12434.0	12801.6	13313.4	13367.4	13381.8	13028.6	13190.8	13468.3	13118.7
52.5°	12261.0	12228.5	12707.9	13277.3	14027.0	14300.9	14372.9	13936.9	14027.0	13900.8	13580.1
55°	11882.5	11979.9	12462.8	13623.3	14773.0	15619.9	15756.9	15205.5	14632.4	14729.7	14376.5
56°	11363.6	11194.2	11734.8	13230.5	14740.6	16048.8	16160.5	15472.2	15082.9	14956.8	14369.3
57.5°	9640.8	9421.0	10131.0	11904.2	13922.4	15886.6	15969.5	15583.9	15007.3	14751.4	13320.6
60°	5643.9	5752.1	6653.1	8210.0	10740.1	13025.0	13302.5	13583.7	13198.0	12051.9	9914.7
62.5°	2724.7	2656.2	3301.3	4706.9	6544.9	8314.5	8231.6	9020.9	9453.4	8563.2	6260.2
65°	1427.2	1420.0	1802.0	2569.7	3596.8	4368.1	4443.8	4869.1	5463.7	4411.4	3178.8
67.5°	1048.8	1077.6	1268.6	1805.6	2313.8	2360.7	2349.8	2562.5	2620.1	2216.5	1953.4
70°	821.7	836.1	976.7	1373.1	1722.7	1542.5	1510.1	1535.3	1704.7	1776.8	1690.3
72.5°	594.7	609.1	728.0	926.2	1077.6	1052.4	1074.0	1214.6	1423.6	1499.3	1409.2
75°	396.4	407.3	472.1	565.8	637.9	688.4	728.0	890.2	1084.8	1128.1	1084.8
77.5°	273.9	284.7	328.0	400.0	407.3	439.7	454.1	529.8	648.7	702.8	674.0
80°	155.0	155.0	176.6	205.4	252.3	295.5	302.7	364.0	418.1	454.1	461.3
82.5°	72.1	75.7	93.7	126.1	165.8	205.4	212.6	252.3	291.9	328.0	338.8
85°	36.0	39.6	54.1	75.7	100.9	122.5	118.9	122.5	129.7	122.5	126.1
87.5°	10.8	10.8	14.4	18.0	14.4	18.0	18.0	21.6	25.2	28.8	32.4
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°	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4	5676.4
2.5°	5708.8	5719.6	5647.5	5716.0	5690.8	5687.2	5737.6	5730.4	5748.5	5741.2	5698.0
5°	5712.4	5687.2	5762.9	5694.4	5726.8	5795.3	5748.5	5856.6	5802.5	5838.6	5759.3
7.5°	5824.1	5831.3	5816.9	5845.8	5831.3	5863.8	5838.6	5863.8	5820.5	5824.1	5896.2
10°	5921.4	5899.8	5925.1	5889.0	5914.2	5903.4	5845.8	5827.7	5842.2	5824.1	5871.0
12.5°	6101.7	6062.0	6044.0	6000.7	5971.9	5863.8	5773.7	5723.2	5791.7	5802.5	5780.9
15°	6285.5	6289.1	6206.2	6108.9	5928.7	5766.5	5788.1	5806.1	5806.1	5835.0	5780.9
17.5°	6400.8	6400.8	6325.1	6130.5	5946.7	5853.0	5831.3	5773.7	5723.2	5716.0	5712.4
20°	6602.6	6541.3	6368.4	6126.9	5939.5	5896.2	5734.0	5597.1	5492.6	5456.5	5452.9
22.5°	6833.3	6678.3	6436.8	6134.1	5928.7	5867.4	5564.6	5359.2	5171.8	5092.5	5103.3
25°	7045.9	6797.2	6476.5	6101.7	5889.0	5593.5	5254.7	4970.0	4775.4	4710.5	4678.1
27.5°	7193.7	6923.4	6476.5	6130.5	5741.2	5287.1	4941.1	4577.1	4407.7	4364.5	4371.7
30°	7391.9	7082.0	6588.2	6069.2	5445.7	4890.7	4476.2	4238.4	4137.4	4101.4	4126.6
32.5°	7856.8	7496.4	6743.2	5921.4	5096.1	4494.2	4159.1	4025.7	3878.0	3805.9	3780.6
35°	8361.4	7889.3	6894.5	5672.8	4703.3	4133.8	3924.8	3802.3	3625.7	3546.4	3560.8
37.5°	9075.0	8393.8	6905.4	5261.9	4278.0	3932.0	3741.0	3550.0	3405.8	3283.3	3247.2
40°	10037.3	9082.2	6880.1	4829.4	3935.6	3694.1	3553.6	3315.7	3153.5	3067.0	3085.1
42.5°	10884.2	9889.5	6775.6	4339.3	3625.7	3532.0	3373.4	3139.1	2980.5	2890.4	2883.2
45°	11597.8	10484.2	6577.4	3921.2	3366.2	3351.8	3168.0	2987.8	2861.6	2778.7	2814.8
47.5°	12257.4	10963.5	6278.3	3503.1	3128.3	3157.1	2980.5	2868.8	2789.5	2713.8	2710.2
50°	12495.2	10956.3	6015.2	3157.1	2937.3	2922.9	2915.7	2796.7	2713.8	2649.0	2677.8
52.5°	12891.7	11078.8	5730.4	2919.3	2764.3	2767.9	2793.1	2706.6	2612.9	2573.3	2609.3
55°	13461.1	11096.9	5103.3	2641.8	2620.1	2645.4	2645.4	2587.7	2508.4	2476.0	2458.0
56°	12996.2	10559.9	4577.1	2569.7	2548.1	2548.1	2616.5	2551.7	2454.4	2429.1	2407.5
57.5°	11987.1	9251.6	3831.1	2483.2	2450.8	2501.2	2537.2	2468.8	2378.7	2342.6	2364.3
60°	8267.7	6260.2	2879.6	2295.8	2295.8	2378.7	2407.5	2306.6	2266.9	2263.3	2234.5
62.5°	4825.8	3647.3	2252.5	2126.4	2133.6	2202.1	2223.7	2166.0	2115.6	2176.8	2205.7
65°	2558.9	2176.8	1931.8	1946.2	1949.8	2003.9	2097.6	2094.0	2090.3	2108.4	2112.0
67.5°	1852.5	1809.2	1755.2	1740.8	1748.0	1787.6	1881.3	1953.4	1949.8	1906.5	1874.1
70°	1650.7	1589.4	1556.9	1560.6	1531.7	1578.6	1654.3	1701.1	1618.2	1567.8	1546.1
72.5°	1373.1	1355.1	1333.5	1337.1	1279.4	1268.6	1182.1	1182.1	1160.5	1146.1	1171.3
75°	1048.8	1041.6	1052.4	1034.4	973.1	908.2	857.8	810.9	738.8	710.0	695.6
77.5°	663.1	684.8	710.0	670.4	645.1	598.3	547.8	501.0	443.3	410.9	410.9
80°	450.5	468.5	486.5	479.3	450.5	407.3	367.6	317.2	277.5	252.3	248.7
82.5°	342.4	356.8	382.0	353.2	324.4	288.3	255.9	219.8	183.8	155.0	155.0
85°	122.5	140.6	155.0	169.4	180.2	183.8	158.6	129.7	104.5	82.9	79.3
87.5°	32.4	36.0	39.6	36.0	36.0	36.0	39.6	36.0	32.4	25.2	25.2
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)