

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: P533082

Luminaire Tested: **GALN-SA8C-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41446 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

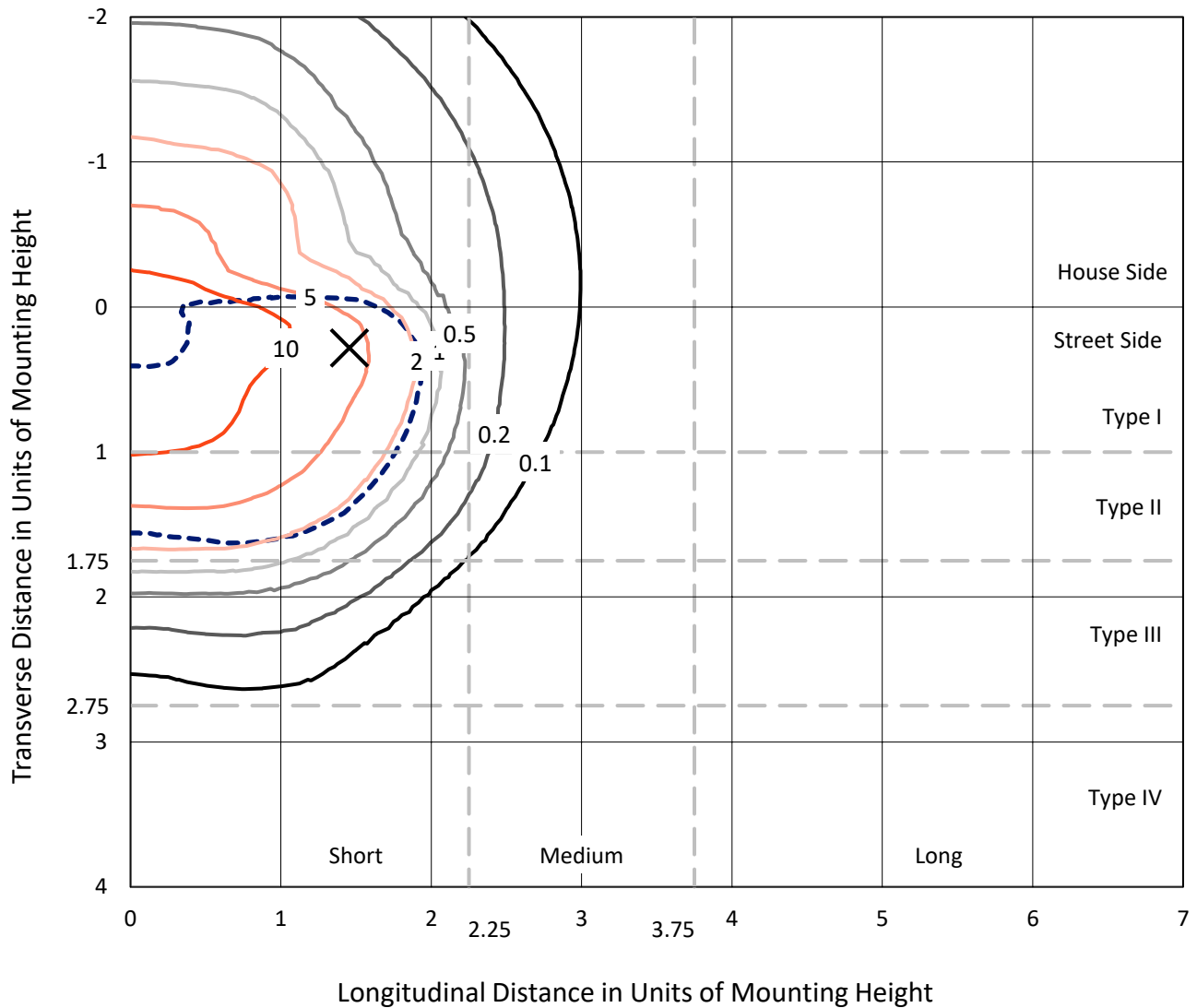
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

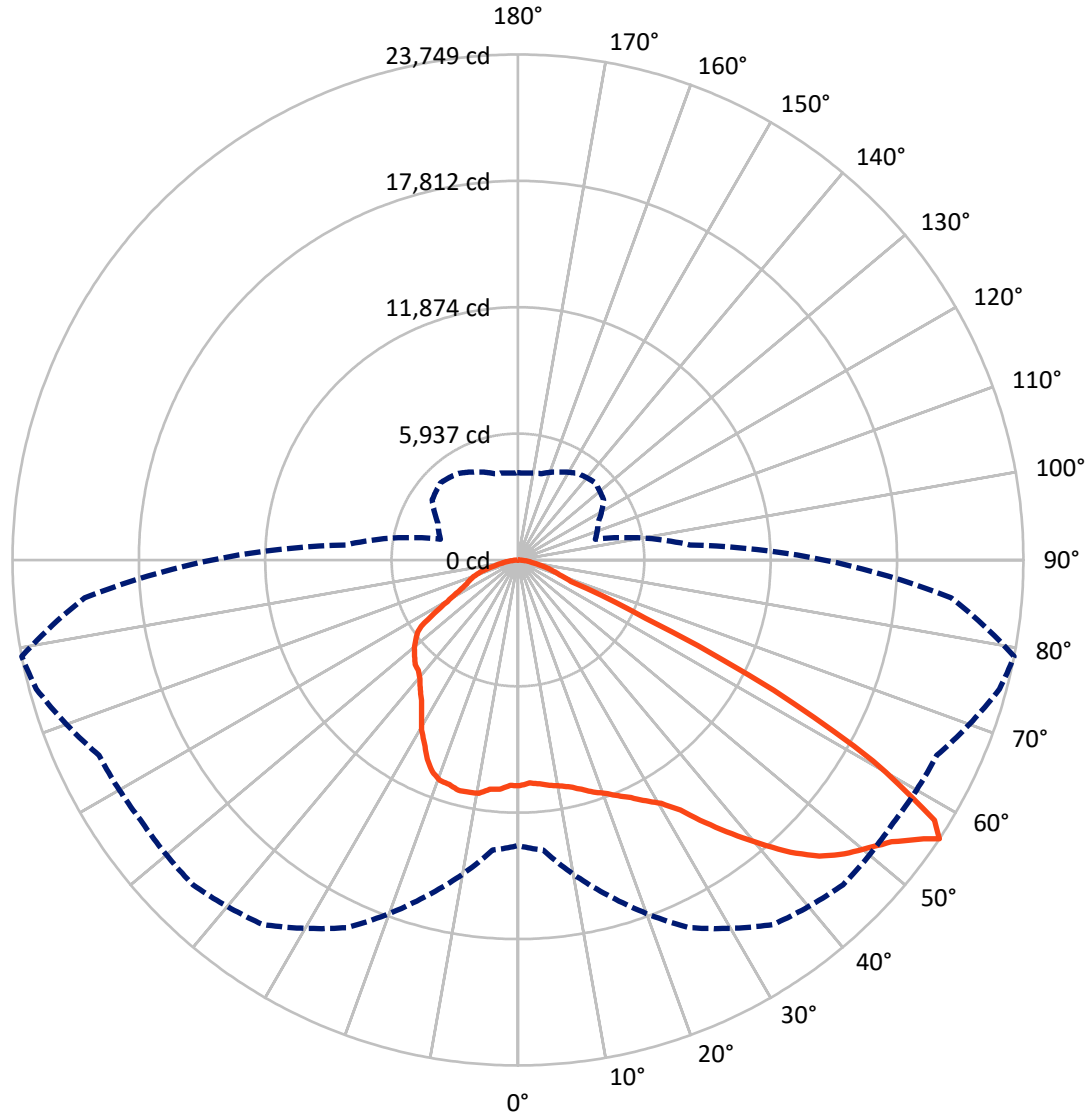
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12239.9	0.0	12239.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	29206.1	0.0	29206.1
	% Fixture	70.5	0.0	70.5
Total	Lumens	41446.0	0.0	41446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.1	2.3
10°-20°	2638.6	6.4
20°-30°	4514.1	10.9
30°-40°	6918.4	16.7
40°-50°	9350.2	22.6
50°-60°	10739.1	25.9
60°-70°	4895.2	11.8
70°-80°	1206.9	2.9
80°-90°	219.4	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°	41446.0	100.0
0°-180°	41446.0	100.0

Coefficient of Utilization

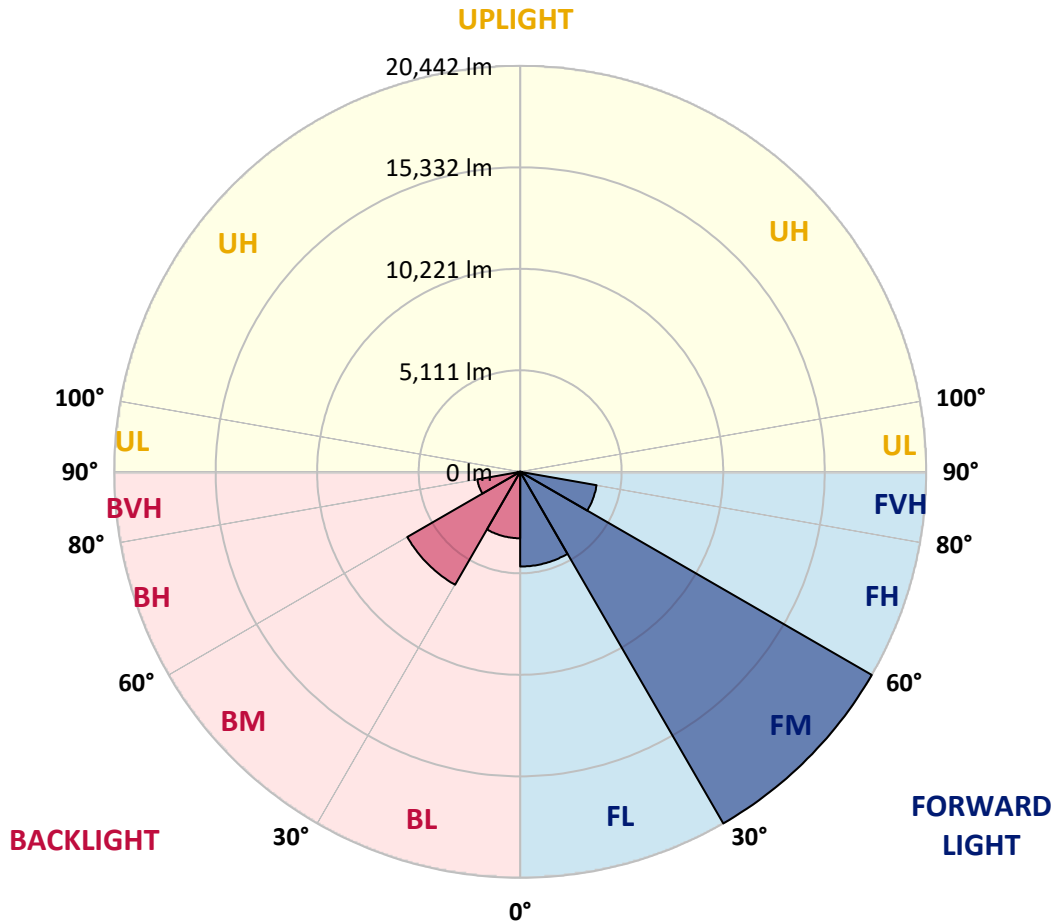


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4768.7	11.5			
FM (30°-60°)	20442.4	49.3			
FH (60°-80°)	3907.4	9.4			G2/5000
FVH (80°-90°)	87.6	0.2			G1/100
BL (0°-30°)	3348.1	8.1	B4/5000		
BM (30°-60°)	6565.3	15.8	B4/8500		
BH (60°-80°)	2194.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	131.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4
2.5°	10088.1	10062.3	10124.2	10170.7	10227.5	10299.8	10335.9	10356.6	10537.3	10490.8	10630.2
5°	9871.3	9804.2	9850.6	9886.8	9984.9	10072.6	10170.7	10325.6	10490.8	10563.1	10733.5
7.5°	9680.2	9644.1	9633.8	9659.6	9793.8	9907.4	10077.8	10304.9	10573.4	10692.2	10790.3
10°	9365.3	9313.7	9391.1	9561.5	9597.6	9835.1	10031.3	10356.6	10588.9	10795.4	11084.5
12.5°	9225.9	9174.3	9189.8	9287.9	9540.9	9768.0	10000.3	10366.9	10857.4	10940.0	11327.2
15°	9447.9	9396.3	9411.8	9386.0	9628.6	9747.4	10113.9	10573.4	11043.2	11182.6	11595.6
17.5°	9953.9	9959.0	9891.9	9835.1	9778.3	10031.3	10284.3	10697.3	11115.5	11466.6	11776.3
20°	10919.3	10748.9	10614.7	10294.6	10206.9	10315.3	10635.4	11032.9	11409.8	11698.9	12050.0
22.5°	11662.8	11678.3	11487.2	10960.6	10769.6	10816.1	11089.7	11414.9	11828.0	12034.5	12437.2
25°	12741.8	12633.4	12426.9	12008.7	11580.2	11616.3	11817.6	12111.9	12225.5	12370.1	12808.9
27.5°	13727.9	13758.9	13351.0	12958.6	12426.9	12323.6	12685.0	12736.6	12545.6	12819.2	12969.0
30°	14729.5	14703.7	14435.2	13975.7	13454.3	13474.9	13635.0	13382.0	13118.7	13268.4	13371.7
32.5°	15767.2	15472.9	15462.6	15049.6	14652.0	14461.0	14264.8	14388.7	13980.9	14011.8	13913.7
35°	16598.4	16639.7	16402.2	16107.9	15911.7	15576.2	15039.2	15261.2	15183.8	15147.7	14724.3
37.5°	17202.4	17042.4	17161.1	17063.1	16877.2	16459.0	15901.4	16113.1	16149.2	16324.8	15834.3
40°	17698.1	17631.0	17945.9	17997.5	17868.4	16965.0	15963.4	16593.2	17135.3	17517.4	16934.0
42.5°	17935.6	18080.1	18410.5	18808.1	18519.0	17553.5	16283.5	16959.8	18167.9	18771.9	17976.9
45°	18255.7	18069.8	18560.3	19288.2	19293.4	18049.1	16593.2	17455.4	18973.3	19851.0	18689.3
47.5°	17930.4	18023.3	18529.3	19453.4	19690.9	18570.6	17429.6	18157.6	19861.3	20640.9	19350.2
50°	17202.4	17388.3	18312.4	19272.7	19990.4	19123.0	18389.9	18916.5	20682.2	21275.9	19458.6
52.5°	16443.5	16546.8	17992.4	19412.1	20124.6	19835.5	19675.4	19964.5	21683.8	21993.5	19592.8
55°	14378.4	14868.9	16934.0	19350.2	20780.3	21121.0	20997.1	21420.5	22819.6	23129.3	20325.9
56°	13423.3	13681.4	16299.0	19061.1	20909.3	21590.8	21528.9	21719.9	23423.6	23748.9	20439.5
57.5°	11657.6	11678.3	13898.3	17780.7	20424.0	21730.2	21668.3	21818.0	23304.9	23082.9	19443.1
60°	7295.0	7615.1	9458.2	13676.3	17367.7	20160.7	20511.8	19308.9	19649.6	19179.8	15127.0
62.5°	3779.2	3732.7	4956.3	7997.2	11528.5	14435.2	14760.4	14703.7	14177.0	13490.4	9881.6
65°	1884.4	1894.7	2591.7	3959.9	5906.2	7558.3	8467.0	8565.1	7166.0	6592.9	4687.8
67.5°	1368.1	1419.8	1863.8	2421.4	2782.7	3113.2	3815.3	3743.0	2834.4	2695.0	2498.8
70°	1063.5	1110.0	1512.7	1848.3	1677.9	1677.9	1827.6	1889.6	2018.7	2075.4	2142.6
72.5°	774.4	810.6	1156.5	1275.2	1099.7	1182.3	1368.1	1512.7	1646.9	1667.6	1745.0
75°	531.8	562.7	758.9	702.1	660.8	815.7	1001.6	1135.8	1233.9	1285.5	1332.0
77.5°	345.9	356.2	433.7	366.6	423.3	526.6	650.5	764.1	862.2	903.5	913.8
80°	154.9	170.4	185.9	232.3	294.3	376.9	464.7	557.6	619.5	635.0	666.0
82.5°	87.8	87.8	113.6	165.2	216.8	273.6	335.6	402.7	475.0	490.5	485.3
85°	46.5	46.5	67.1	98.1	134.2	160.0	154.9	160.0	170.4	196.2	191.0
87.5°	15.5	15.5	20.7	20.7	25.8	31.0	25.8	36.1	46.5	46.5	46.5
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°	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4	10604.4
2.5°	10588.9	10635.4	10573.4	10707.6	10707.6	10681.8	10552.8	10594.1	10625.0	10625.0	10650.9
5°	10790.3	10774.8	10816.1	10656.0	10557.9	10521.8	10310.1	10206.9	10119.1	10113.9	10036.5
7.5°	10903.8	10862.5	10847.0	10728.3	10294.6	10031.3	9577.0	9313.7	9256.9	9055.6	9133.0
10°	11084.5	11162.0	11084.5	10439.2	9835.1	9231.1	8787.1	8379.2	8219.2	8090.1	8012.7
12.5°	11456.3	11420.1	10970.9	10098.4	9251.7	8534.1	7873.3	7444.8	7284.7	7171.1	7160.8
15°	11771.2	11590.5	10903.8	9561.5	8343.1	7579.0	7036.9	6732.3	6660.0	6670.3	6716.8
17.5°	11879.6	11755.7	10552.8	9003.9	7666.8	6768.4	6515.5	6469.0	6536.1	6613.5	6634.2
20°	12050.0	11853.8	10408.2	8245.0	6830.4	6262.5	6247.0	6412.2	6536.1	6649.7	6665.2
22.5°	12406.2	11910.6	9938.4	7527.4	6257.3	6112.8	6262.5	6401.9	6592.9	6685.8	6603.2
25°	12509.5	11786.7	9277.6	6665.2	5895.9	6019.8	6179.9	6370.9	6505.1	6556.8	6592.9
27.5°	12597.2	11595.6	8384.4	6092.1	5782.3	6014.7	6179.9	6339.9	6412.2	6458.7	6500.0
30°	12845.0	11538.9	7610.0	5710.1	5710.1	5911.4	6123.1	6164.4	6262.5	6319.3	6391.5
32.5°	12969.0	11146.5	6814.9	5467.4	5637.8	5963.0	5978.5	6056.0	6061.1	6107.6	6030.1
35°	13294.2	10867.7	6076.6	5291.9	5668.8	5911.4	5988.8	5942.4	5689.4	5565.5	5591.3
37.5°	13531.7	10728.3	5544.8	5271.2	5673.9	5968.2	6009.5	5658.4	5395.1	5188.6	5240.2
40°	14171.9	10382.4	5142.1	5235.1	5720.4	6030.1	5916.6	5534.5	5059.5	4847.9	4811.7
42.5°	14662.4	10134.6	4889.2	5193.8	5756.5	6117.9	5870.1	5286.7	4801.4	4605.2	4656.8
45°	15230.3	10077.8	4754.9	5204.1	5818.5	6164.4	5813.3	5095.7	4579.4	4502.0	4486.5
47.5°	15431.6	9669.9	4610.4	5116.3	5803.0	6148.9	5622.3	4951.1	4496.8	4507.1	4548.4
50°	15096.0	9251.7	4502.0	4935.6	5699.7	6009.5	5322.8	4760.1	4450.3	4579.4	4651.7
52.5°	14667.5	8823.2	4280.0	4693.0	5488.1	5792.7	5183.5	4749.8	4403.9	4362.6	4378.1
55°	14796.6	8472.2	3970.2	4362.6	5147.3	5390.0	5028.6	4651.7	4290.3	4135.4	4187.0
56°	14378.4	8110.8	3768.8	4156.1	4915.0	5131.8	4951.1	4563.9	4197.4	4094.1	4094.1
57.5°	13196.1	6897.5	3505.5	3825.6	4424.5	4682.7	4801.4	4512.3	4094.1	3913.4	3918.6
60°	9731.9	4904.7	3144.1	3371.3	3665.6	3872.1	4424.5	4367.7	3836.0	3712.1	3665.6
62.5°	5999.2	3583.0	2886.0	2973.8	3123.5	3293.9	3861.8	3954.7	3562.3	3428.1	3397.1
65°	3361.0	2741.4	2689.8	2726.0	2798.2	2886.0	3206.1	3412.6	3144.1	2937.6	2927.3
67.5°	2457.5	2452.3	2493.6	2524.6	2555.6	2555.6	2633.0	2715.6	2679.5	2514.3	2498.8
70°	2183.9	2199.4	2230.3	2235.5	2245.8	2209.7	2147.7	2121.9	2163.2	2060.0	2039.3
72.5°	1801.8	1853.4	1889.6	1894.7	1838.0	1791.5	1708.9	1621.1	1590.1	1569.5	1564.3
75°	1383.6	1419.8	1435.3	1430.1	1409.4	1342.3	1244.2	1156.5	1099.7	1037.7	1068.7
77.5°	934.5	986.1	1011.9	1011.9	980.9	877.7	831.2	764.1	707.3	640.2	650.5
80°	655.7	691.8	733.1	728.0	676.3	624.7	557.6	495.6	449.2	397.5	392.4
82.5°	490.5	511.1	531.8	521.4	485.3	433.7	387.2	330.4	278.8	242.7	242.7
85°	175.5	191.0	232.3	242.7	263.3	263.3	222.0	185.9	149.7	123.9	123.9
87.5°	51.6	51.6	56.8	56.8	51.6	56.8	46.5	51.6	56.8	36.1	36.1
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)