

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: P651010

Luminaire Tested: **GALN-SA7C-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651010
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-SA7C-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 34905.7 lumens
Efficiency: N/A
Efficacy: 92.6 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

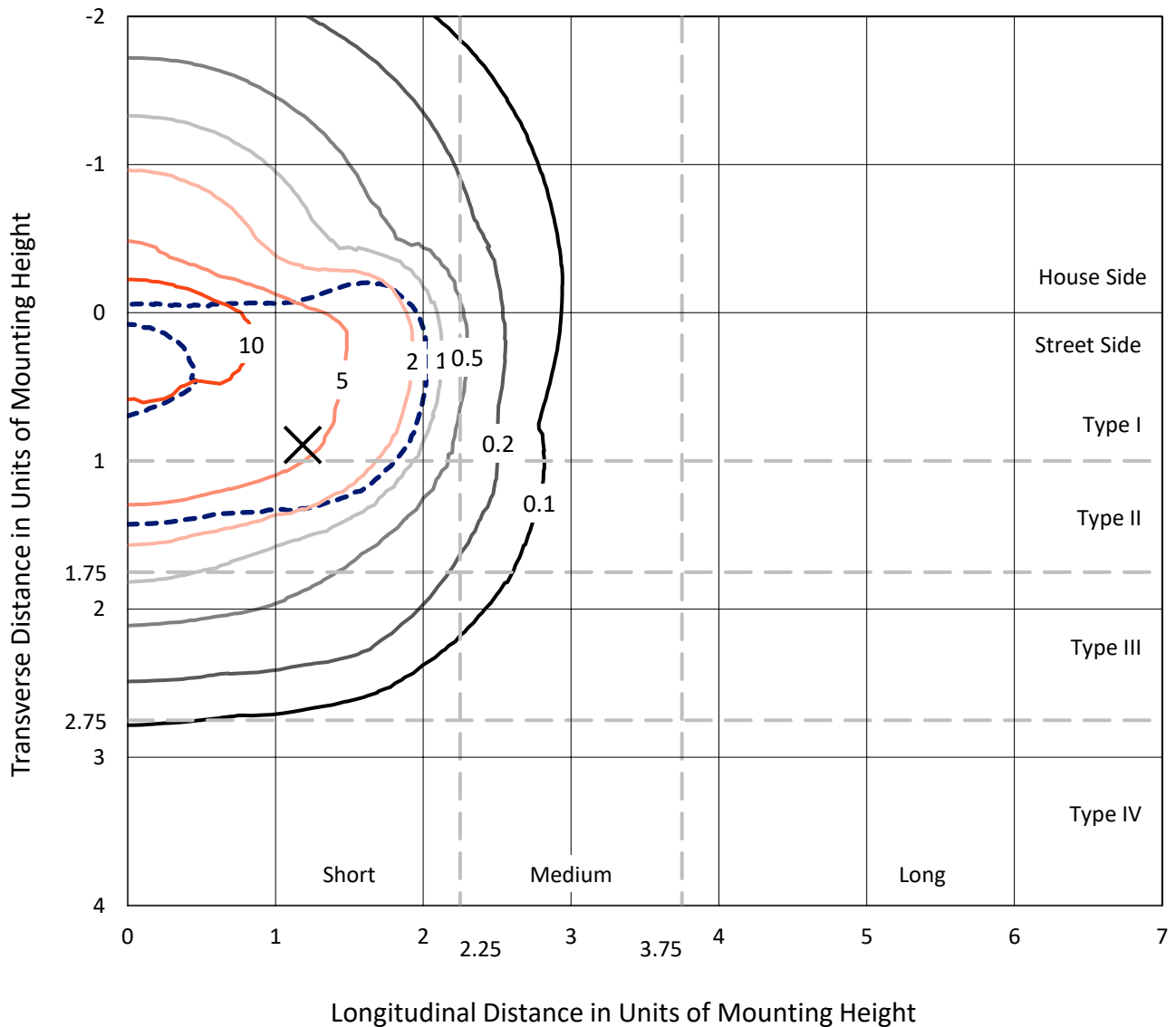
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

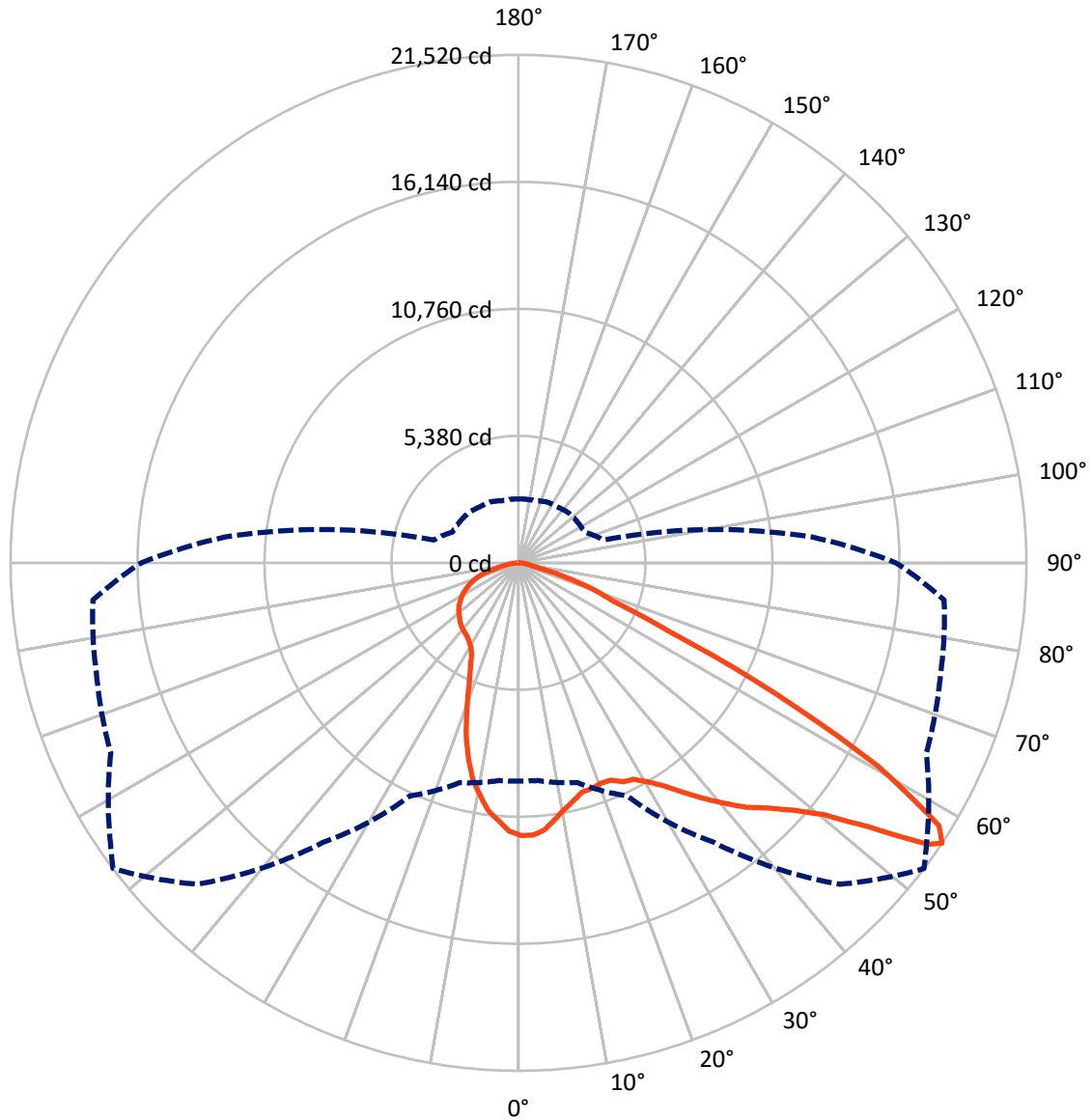
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10186.3	0.0	10186.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	24719.5	0.0	24719.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	34905.7	0.0	34905.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1022.3	2.9
10°-20°	2553.4	7.3
20°-30°	3765.2	10.8
30°-40°	5379.7	15.4
40°-50°	7404.4	21.2
50°-60°	8750.0	25.1
60°-70°	4663.2	13.4
70°-80°	1183.0	3.4
80°-90°	184.5	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°	34905.7	100.0
0°-180°	34905.7	100.0

Coefficient of Utilization

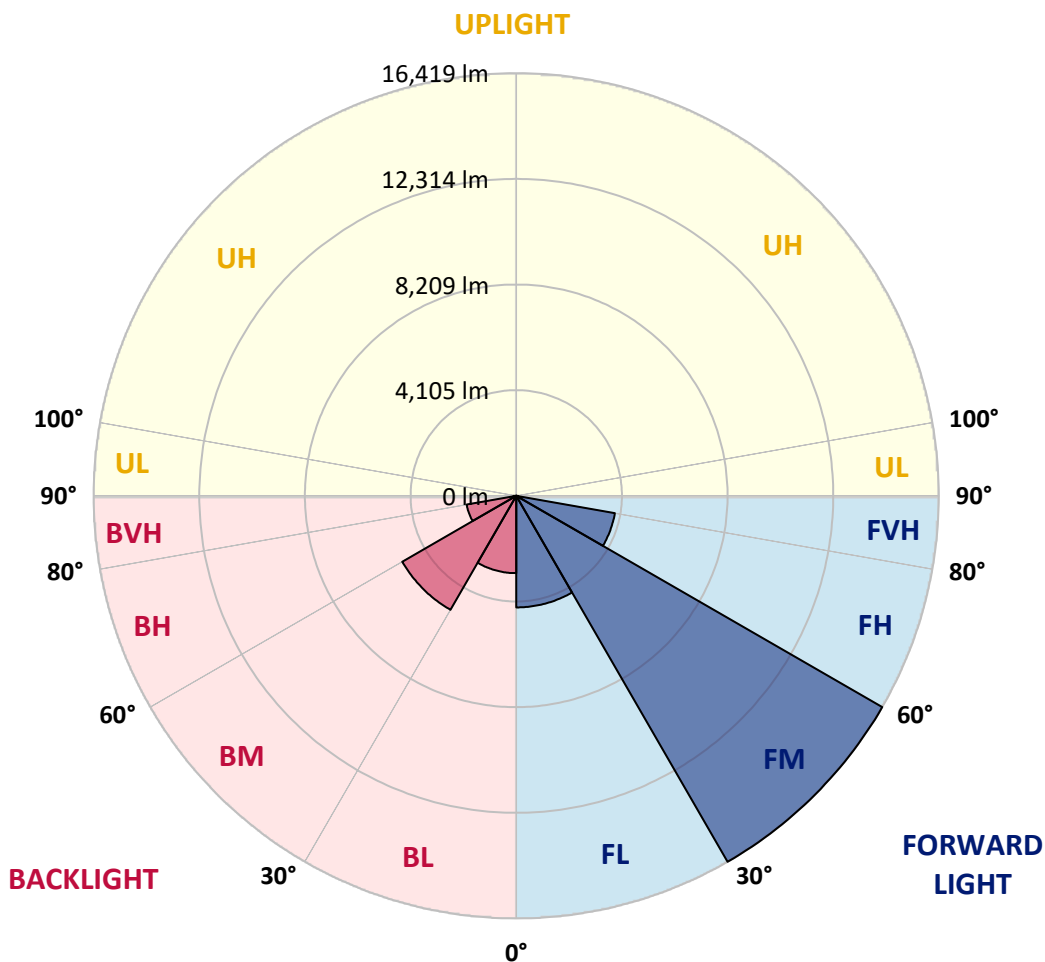


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4336.5	12.4			
FM (30°-60°)	16419.0	47.0			
FH (60°-80°)	3889.8	11.1			G2/5000
FVH (80°-90°)	74.1	0.2			G1/100
BL (0°-30°)	3004.3	8.6	B4/5000		
BM (30°-60°)	5115.2	14.7	B4/8500		
BH (60°-80°)	1956.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	110.3	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°	53°	55°	65°	75°	85°
0°	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2
2.5°	11404.9	11306.4	11364.6	11342.2	11525.8	11579.6	11552.6	11575.0	11678.0	11628.8	11525.8
5°	10657.1	10795.9	10822.7	10889.9	10997.4	11207.8	11373.5	11418.3	11467.6	11696.0	11673.6
7.5°	9976.4	10070.6	10021.3	10218.3	10451.1	10791.5	10993.0	11028.8	11481.0	11606.4	11700.4
10°	9546.6	9452.6	9676.5	9730.2	9994.4	10384.0	10625.8	10773.5	11185.5	11682.5	11740.7
12.5°	9148.1	9116.8	9251.1	9403.3	9698.8	10101.8	10348.2	10406.4	11042.2	11566.1	11839.3
15°	8852.5	8816.7	8951.1	9063.0	9407.8	9766.0	10079.5	10245.1	10885.5	11498.9	11754.2
17.5°	8619.7	8615.2	8691.4	8892.9	9246.6	9546.6	10052.6	10061.6	10804.8	11601.9	11825.8
20°	8606.3	8601.8	8615.2	8839.2	9161.5	9528.7	9967.5	10048.1	10804.8	11530.3	11830.3
22.5°	8718.2	8646.6	8727.2	8870.4	9103.3	9560.1	9998.9	10178.0	11064.6	11884.0	12031.8
25°	8897.4	8915.3	8960.0	9009.3	9143.6	9631.7	10276.5	10424.3	11369.1	12188.5	12309.4
27.5°	9224.3	9215.3	9233.2	9260.0	9376.5	9698.8	10388.5	10769.1	12004.9	12730.3	12609.4
30°	9703.4	9672.0	9743.7	9837.7	9730.2	9913.8	10760.1	11046.7	12596.0	13276.6	12945.3
32.5°	10137.7	10254.1	10388.5	10428.7	10298.9	10334.7	11252.7	11543.7	13088.6	13948.2	13357.2
35°	10679.5	10773.5	10952.7	11078.0	11055.6	10948.1	11924.3	12309.4	13800.5	14440.8	13791.6
37.5°	11207.8	11319.8	11615.4	11987.0	11781.1	11731.8	12640.7	12958.7	14019.9	14705.1	14109.5
40°	12058.7	12054.1	12564.6	12757.2	12940.8	12855.7	13384.1	13491.6	14136.4	14646.8	14118.5
42.5°	13057.2	12994.5	13513.9	13813.9	14051.3	14060.2	14158.7	14122.9	14190.1	14351.2	14024.4
45°	14006.5	14140.8	14664.7	15202.1	15439.3	15466.2	14812.4	14745.3	14284.1	14266.2	13845.3
47.5°	15166.3	15197.5	15627.5	16334.9	16885.7	16697.6	15658.7	15511.0	14696.1	14834.9	14145.3
50°	15233.4	15466.2	15851.3	16684.2	18376.8	18327.6	16755.8	16478.2	15358.8	15640.8	14982.7
52.5°	13827.4	13773.6	14230.4	15591.6	18264.8	19948.5	18573.8	17911.1	16782.7	16567.8	16339.4
55°	10536.2	10661.6	11064.6	12439.2	15860.3	19970.9	21050.1	20508.2	18305.1	17937.9	17673.8
56°	9242.2	9260.0	9640.6	10894.4	14472.2	19258.9	21520.2	21081.3	19061.9	18502.2	18099.2
57.5°	7661.5	7558.5	7755.5	8440.6	12215.4	17754.4	21005.2	21435.1	19948.5	19111.1	18551.5
60°	6031.6	6009.2	5928.5	6053.9	7719.7	13375.1	17485.7	18452.9	19859.0	18538.0	17767.8
62.5°	4925.6	4813.6	4974.8	5153.9	5364.4	8297.3	12287.0	12855.7	15766.2	14799.1	13348.3
65°	3819.6	3765.8	3967.3	4549.4	4674.8	5270.4	6998.8	7437.6	9309.3	9143.6	8051.1
67.5°	2628.5	2637.4	2812.1	3698.6	4334.5	4280.8	4285.2	4513.6	4858.4	3609.1	3143.4
70°	1665.8	1661.2	1755.3	2382.2	3488.2	3524.0	3344.9	3277.7	3107.6	1880.6	1992.6
72.5°	1070.2	1038.8	1088.1	1316.5	1804.5	2086.6	2149.3	2189.6	1800.1	1477.6	1603.0
75°	604.5	573.1	555.2	613.4	712.0	823.9	904.5	931.4	1043.3	1119.5	1186.7
77.5°	183.6	165.7	201.5	268.7	353.7	474.7	577.6	595.5	703.0	792.6	859.8
80°	80.6	89.6	125.4	179.1	250.8	335.8	407.5	434.4	506.0	573.1	591.1
82.5°	49.3	53.7	85.1	120.9	174.6	237.3	291.1	300.0	371.6	425.4	438.8
85°	17.9	22.4	44.7	71.7	111.9	152.2	152.2	165.7	152.2	152.2	165.7
87.5°	0.0	0.0	4.5	8.9	8.9	13.5	17.9	17.9	22.4	26.8	31.4
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°	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2	11548.2
2.5°	11579.6	11557.1	11521.3	11391.4	11378.1	11337.7	11113.8	11078.0	11113.8	11006.3	11015.3
5°	11557.1	11624.3	11355.6	11225.8	10984.0	10809.4	10607.9	10504.8	10321.3	10204.9	10334.7
7.5°	11655.7	11628.8	11292.9	11010.9	10648.2	10204.9	9851.1	9649.6	9327.2	9237.6	9304.8
10°	11619.8	11476.5	11082.5	10710.8	10025.7	9636.2	9063.0	8507.8	8203.3	8046.6	8024.1
12.5°	11570.6	11530.3	10872.0	10231.7	9510.8	8691.4	7885.4	7361.4	6864.4	6649.5	6680.8
15°	11628.8	11288.5	10478.0	9667.5	8709.3	7634.6	6765.9	6089.8	5745.0	5606.2	5606.2
17.5°	11601.9	11172.0	10289.9	9036.1	7822.6	6551.0	5597.2	5189.7	5046.4	5046.4	5086.8
20°	11615.4	11248.2	9909.3	8404.8	6774.8	5516.6	4822.5	4674.8	4737.5	4759.9	4782.3
22.5°	11691.5	10997.4	9537.7	7710.7	5803.2	4719.6	4379.3	4383.7	4495.6	4616.6	4594.2
25°	11785.5	10898.9	9085.4	7021.2	5059.9	4330.0	4222.6	4209.1	4294.1	4356.9	4365.8
27.5°	11704.9	10728.7	8624.2	6161.4	4450.9	4070.3	4047.9	4056.9	4083.7	4209.1	4168.8
30°	11969.1	10778.0	8046.6	5440.5	4115.1	3985.2	3958.3	3944.9	3985.2	4021.1	3989.7
32.5°	12296.0	10603.4	7616.7	4746.4	3949.4	3922.5	3868.8	3850.9	3873.3	3837.5	3855.4
35°	12439.2	10572.0	7057.0	4249.4	3819.6	3797.1	3765.8	3761.4	3765.8	3734.5	3707.6
37.5°	12519.9	10719.8	6416.7	4021.1	3738.9	3761.4	3689.7	3680.7	3600.2	3618.1	3631.4
40°	12658.6	10491.4	5897.3	3801.7	3689.7	3644.9	3582.2	3568.8	3515.0	3483.7	3515.0
42.5°	12457.1	10424.3	5386.8	3707.6	3618.1	3568.8	3524.0	3447.8	3429.9	3403.1	3385.2
45°	12296.0	10039.2	4930.0	3591.2	3533.0	3506.1	3421.0	3340.5	3273.3	3300.1	3259.8
47.5°	12416.9	9904.9	4477.7	3492.7	3416.6	3385.2	3300.1	3237.4	3170.2	3138.9	3129.9
50°	12900.4	10155.6	4097.2	3421.0	3318.0	3300.1	3188.1	3116.5	3053.8	3031.5	3040.4
52.5°	14055.7	10840.7	3837.5	3273.3	3224.0	3143.4	3080.8	2991.2	2950.8	2879.2	2924.0
55°	15520.0	11955.7	3770.3	3134.4	3107.6	3035.9	2950.8	2883.7	2807.6	2749.3	2735.9
56°	15990.1	12488.5	3716.5	3080.8	3035.9	2995.6	2883.7	2843.4	2722.5	2709.0	2700.1
57.5°	16370.7	12958.7	3725.5	2977.7	2932.9	2897.2	2830.0	2731.5	2650.8	2601.5	2624.0
60°	15511.0	12130.3	3555.3	2821.0	2812.1	2744.9	2650.8	2606.1	2507.5	2449.3	2435.9
62.5°	11530.3	8234.7	2883.7	2619.5	2615.0	2543.4	2435.9	2386.7	2368.8	2288.1	2288.1
65°	6640.5	5162.9	2494.2	2453.8	2418.0	2346.4	2238.9	2198.6	2153.8	2127.0	2104.5
67.5°	2834.4	2677.7	2265.7	2261.3	2221.0	2131.4	2024.0	1961.3	1903.0	1849.4	1876.2
70°	2055.3	2086.6	2046.3	2024.0	1974.7	1862.7	1768.7	1692.6	1603.0	1567.2	1594.1
72.5°	1629.9	1697.1	1755.3	1759.8	1701.6	1571.7	1468.7	1365.7	1267.2	1217.9	1240.3
75°	1235.8	1280.7	1338.9	1352.3	1267.2	1177.7	1079.2	971.7	895.6	837.4	846.3
77.5°	891.0	882.1	935.9	926.9	886.6	823.9	734.4	635.9	550.8	497.0	501.5
80°	609.0	622.4	653.8	649.3	600.1	559.7	492.6	411.9	349.3	304.5	295.5
82.5°	425.4	447.7	474.7	452.3	411.9	371.6	322.4	264.2	215.0	179.1	170.1
85°	152.2	174.6	201.5	215.0	228.3	219.4	183.6	147.8	107.5	89.6	85.1
87.5°	31.4	35.8	40.3	40.3	40.3	35.8	31.4	31.4	26.8	13.5	13.5
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)