

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: P457665

Luminaire Tested: **GALN-SA9A-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37441 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

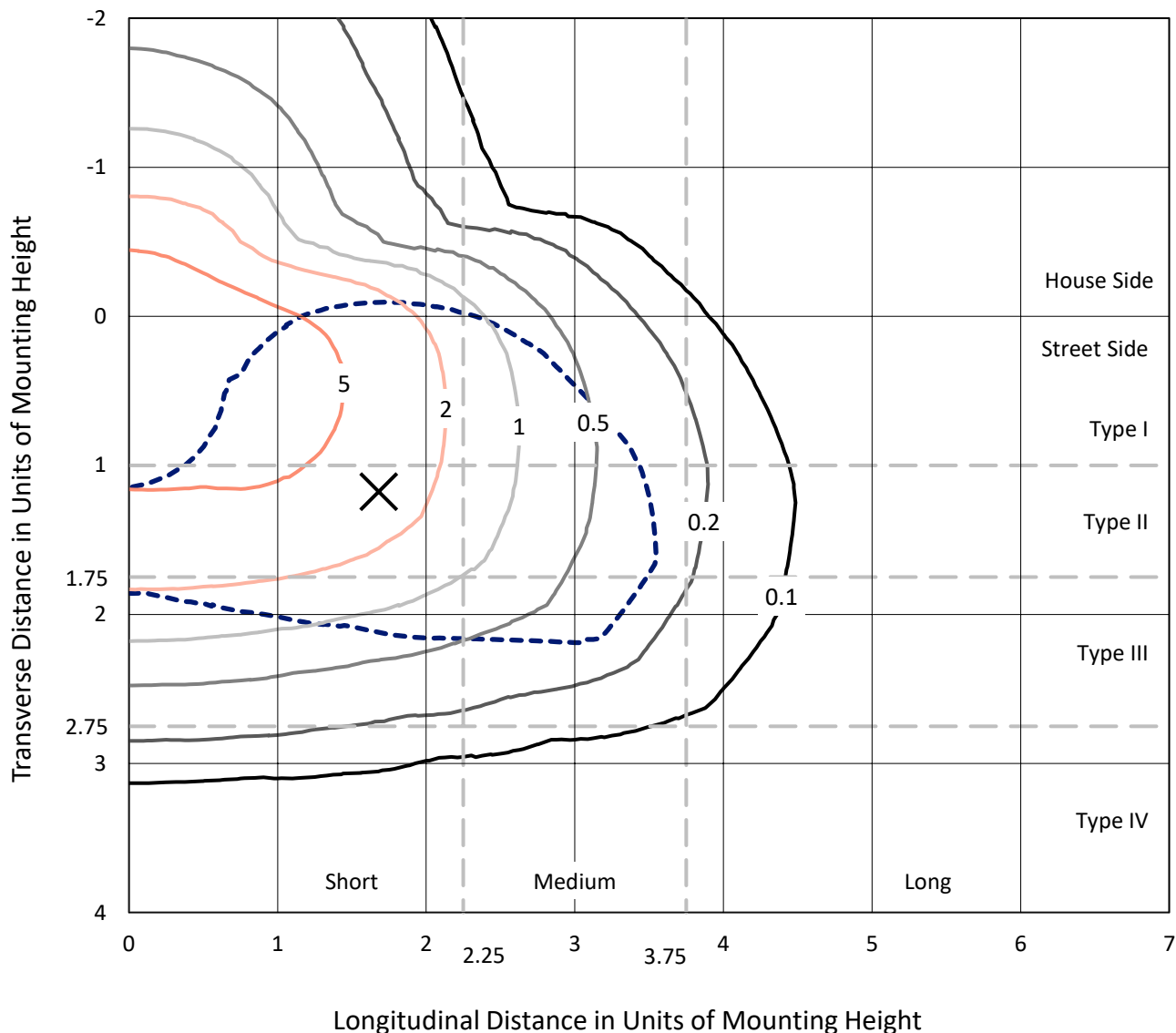
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

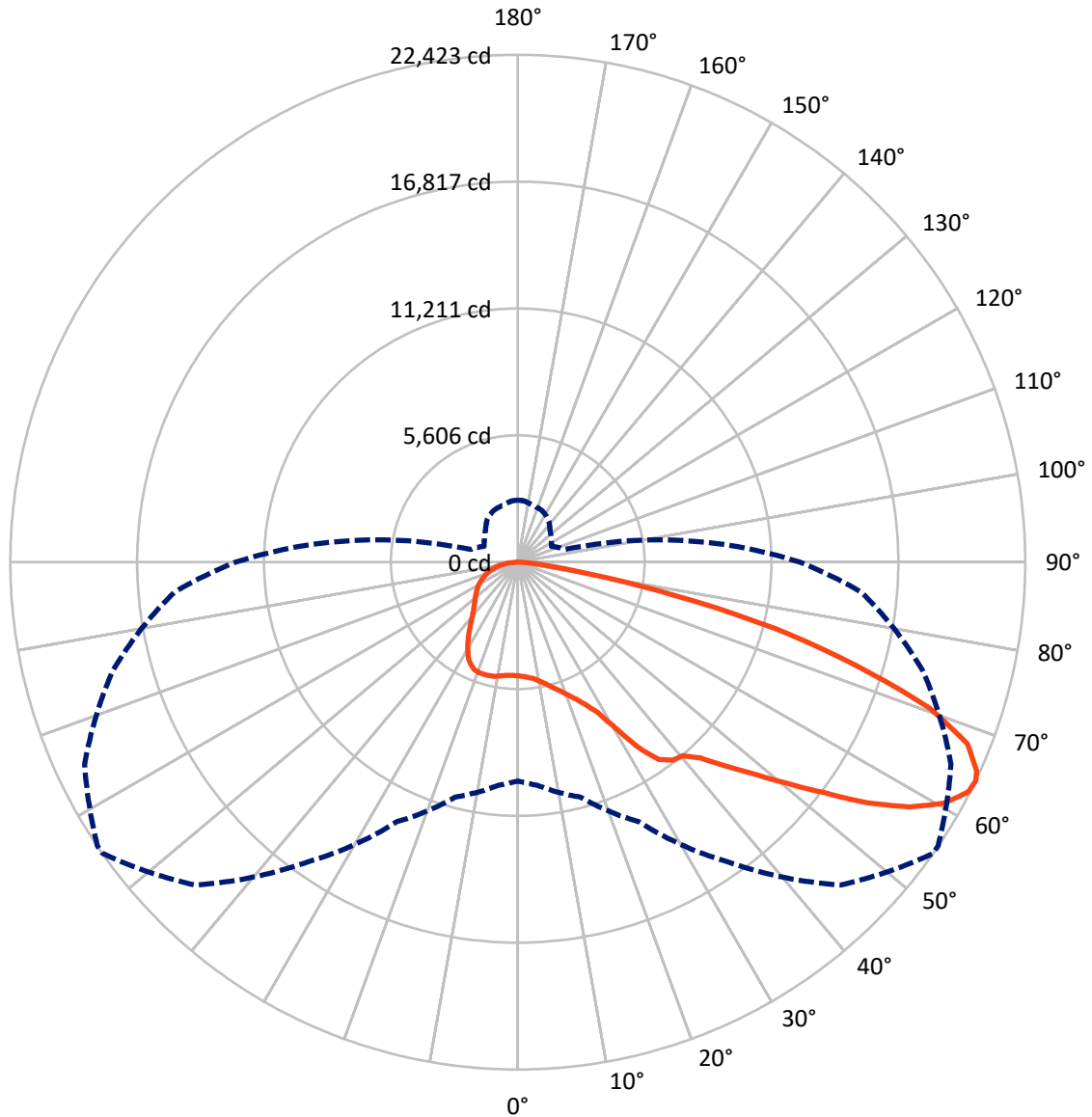
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9095.2	0.0	9095.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	28345.8	0.0	28345.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	37441.0	0.0	37441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.6	1.3
10°-20°	1541.8	4.1
20°-30°	2744.9	7.3
30°-40°	4223.3	11.3
40°-50°	5986.8	16.0
50°-60°	8665.8	23.1
60°-70°	8968.2	24.0
70°-80°	4199.8	11.2
80°-90°	621.7	1.7
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°	37441.0	100.0
0°-180°	37441.0	100.0

Coefficient of Utilization



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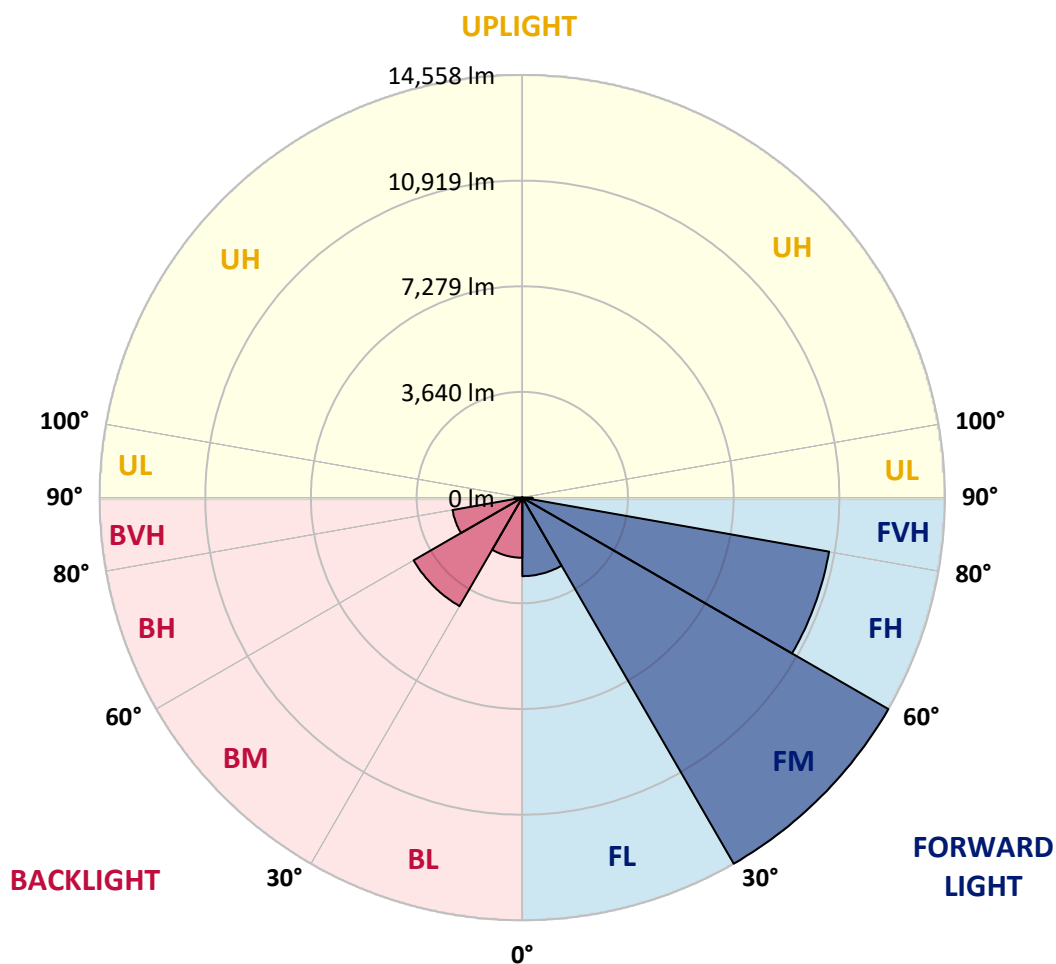
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2703.8	7.2			
FM	(30°-60°)	14558.1	38.9			
FH	(60°-80°)	10727.9	28.7			G4/12000
FVH	(80°-90°)	356.0	1.0			G3/500
BL	(0°-30°)	2071.5	5.5	B3/2500		
BM	(30°-60°)	4317.8	11.5	B3/5000		
BH	(60°-80°)	2440.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	265.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5
2.5°	5079.8	5077.7	5084.0	5077.7	5081.9	5067.3	5061.0	5065.2	5058.9	5048.5	5029.7
5°	5142.4	5140.3	5142.4	5134.1	5138.2	5129.9	5115.3	5119.5	5109.0	5086.1	5058.9
7.5°	5248.9	5240.5	5240.5	5238.4	5230.1	5217.5	5207.1	5202.9	5192.5	5163.3	5121.5
10°	5386.6	5386.6	5388.7	5372.0	5382.4	5359.5	5349.0	5346.9	5311.5	5273.9	5215.5
12.5°	5568.2	5578.6	5572.3	5564.0	5559.8	5551.5	5516.0	5524.3	5484.7	5420.0	5349.0
15°	5793.6	5810.3	5799.8	5795.6	5785.2	5753.9	5739.3	5733.0	5680.9	5586.9	5493.0
17.5°	6092.0	6071.1	6062.8	6052.4	6008.5	5985.6	5960.5	5956.3	5910.4	5799.8	5653.7
20°	6352.9	6382.1	6365.4	6355.0	6311.1	6267.3	6248.5	6242.3	6202.6	6081.6	5847.8
22.5°	6663.8	6670.1	6676.4	6651.3	6630.5	6597.1	6563.7	6553.2	6538.6	6413.4	6127.5
25°	6995.7	7020.7	6999.9	6974.8	6949.8	6947.7	6979.0	6974.8	6968.6	6847.5	6499.0
27.5°	7536.2	7559.2	7565.4	7538.3	7442.3	7450.7	7521.6	7544.6	7640.6	7440.2	6976.9
30°	7840.9	7863.9	7916.1	8018.3	8170.7	8304.2	8475.4	8527.6	8619.4	8241.6	7544.6
32.5°	8028.8	8037.1	8131.0	8320.9	8778.0	9276.8	9742.2	9761.0	9819.4	9289.3	8064.2
35°	8325.1	8331.4	8406.5	8615.2	9151.6	9982.2	10702.2	10725.2	10677.2	9614.9	8306.3
37.5°	8690.3	8707.0	8755.0	8928.3	9569.0	10572.8	11100.8	11084.2	10658.4	9873.7	8734.2
40°	9222.5	9222.5	9166.2	9399.9	10009.3	10910.9	11240.7	11211.5	11098.8	10622.9	9385.3
42.5°	9692.1	9683.8	9817.3	9975.9	10560.3	11432.7	11827.1	11875.1	12060.9	11564.2	10126.2
45°	10303.6	10341.2	10416.3	10704.3	11497.4	12323.8	12833.1	12879.0	13142.0	12672.4	10992.3
47.5°	10921.4	10933.9	11169.7	11553.7	12657.8	13532.2	13949.6	14024.8	14264.8	13968.4	11925.2
50°	11359.6	11478.6	11856.3	12461.6	13853.6	15005.7	15331.2	15421.0	15844.6	15379.2	13012.6
52.5°	11823.0	11939.8	12401.1	13323.5	15226.9	16512.5	16913.2	16973.7	17414.1	16806.8	14124.9
55°	12219.5	12328.0	12851.9	14087.4	16320.5	18050.6	18776.9	18705.9	18916.7	17906.6	14982.7
57.5°	12284.2	12371.8	13031.3	14575.7	17142.8	19369.6	20411.0	20452.8	20208.6	18728.9	15690.2
60°	11783.3	11962.8	12720.4	14523.6	17512.2	20287.9	21629.9	21659.1	20966.2	19150.5	15971.9
62.5°	10896.3	10877.5	11793.7	13684.6	16994.6	20496.6	22347.8	22316.5	21262.5	18948.0	15698.5
64°	9671.2	9896.6	10752.3	12653.6	16159.8	20175.2	22422.9	22406.2	21120.6	18526.5	15233.1
65°	8924.1	8911.6	9756.8	11810.4	15329.1	19691.0	22289.4	22266.4	20824.3	18148.7	14872.1
67.5°	6442.6	6471.8	7306.6	9114.0	12461.6	17798.1	21419.1	21333.5	19655.5	16896.5	13498.8
70°	3902.7	3919.4	4574.7	6046.1	8945.0	14387.9	19307.0	19311.2	17867.0	15026.5	11489.0
72.5°	2055.7	2099.5	2362.5	3433.1	5432.5	10094.9	15663.1	16034.6	15339.6	12824.7	9076.4
75°	1143.7	1149.9	1335.7	1692.6	2771.6	5649.6	11772.9	11879.3	12144.4	10322.4	6711.8
77.5°	872.4	884.9	943.3	1093.6	1508.9	2619.2	7125.1	7659.4	8558.9	7277.4	3829.7
80°	707.5	720.0	770.1	859.9	1003.9	1241.8	3310.0	3598.0	4581.0	3230.7	1494.3
82.5°	551.0	542.6	607.3	665.8	730.5	734.6	1358.6	1502.7	1865.8	1390.0	647.0
85°	409.1	409.1	461.2	448.7	471.7	429.9	599.0	661.6	747.2	590.6	300.5
87.5°	162.8	179.5	302.6	271.3	210.8	169.0	221.2	233.7	258.8	231.7	125.2
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°	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5
2.5°	5031.8	5038.1	5023.5	5013.0	5008.8	5002.6	4996.3	4998.4	5006.8	5015.1	5013.0
5°	5056.8	5058.9	5033.9	5021.4	5013.0	5004.7	5004.7	5010.9	5027.6	5040.1	5040.1
7.5°	5119.5	5119.5	5084.0	5061.0	5048.5	5033.9	5029.7	5031.8	5044.3	5061.0	5063.1
10°	5217.5	5209.2	5163.3	5127.8	5104.8	5069.4	5038.1	5021.4	5027.6	5038.1	5038.1
12.5°	5336.5	5313.5	5255.1	5207.1	5150.8	5084.0	5019.3	4985.9	4983.8	4994.2	4990.1
15°	5463.8	5438.8	5357.4	5269.7	5171.6	5073.5	4996.3	4948.3	4910.8	4900.3	4923.3
17.5°	5612.0	5559.8	5447.1	5326.1	5180.0	5052.7	4931.6	4833.5	4766.7	4748.0	4754.2
20°	5791.5	5722.6	5570.3	5380.3	5173.7	4977.5	4789.7	4658.2	4549.7	4516.3	4520.5
22.5°	6039.8	5920.9	5697.6	5407.5	5121.5	4835.6	4574.7	4403.6	4272.1	4220.0	4251.3
25°	6321.6	6192.2	5818.6	5401.2	4985.9	4608.1	4320.1	4096.8	3977.9	3900.6	3917.3
27.5°	6709.8	6480.2	5948.0	5344.9	4791.8	4330.6	3996.6	3785.9	3677.3	3637.7	3656.5
30°	7206.5	6853.8	6087.8	5192.5	4485.0	3979.9	3671.1	3533.3	3468.6	3418.5	3435.2
32.5°	7565.4	7116.7	6119.1	4935.8	4153.2	3660.6	3449.8	3347.6	3276.6	3228.6	3239.1
35°	7822.1	7340.0	6104.5	4620.7	3806.7	3397.7	3274.5	3191.1	3076.3	2971.9	2953.1
37.5°	8166.5	7619.7	5998.1	4276.3	3464.4	3220.3	3132.6	2978.2	2813.3	2673.5	2667.2
40°	8694.5	7947.4	5770.6	3871.4	3172.3	3088.8	2982.3	2782.0	2604.6	2491.9	2483.6
42.5°	9239.2	8250.0	5461.7	3445.7	2932.3	2951.0	2821.6	2623.4	2514.9	2441.8	2433.5
45°	9905.0	8577.6	5127.8	3076.3	2754.9	2821.6	2681.8	2567.0	2502.3	2454.3	2441.8
47.5°	10625.0	8913.7	4752.1	2744.4	2604.6	2702.7	2623.4	2571.2	2535.7	2502.3	2487.7
50°	11401.4	9289.3	4399.4	2477.3	2468.9	2579.6	2617.1	2598.3	2577.5	2567.0	2554.5
52.5°	12252.9	9673.3	4103.1	2289.5	2350.0	2491.9	2619.2	2633.8	2633.8	2627.6	2619.2
55°	12828.9	9940.5	3802.5	2137.1	2228.9	2420.9	2615.0	2671.4	2692.3	2683.9	2675.6
57.5°	13254.7	10086.6	3424.8	2005.6	2126.7	2352.1	2592.1	2675.6	2696.4	2706.9	2702.7
60°	13342.3	9950.9	2930.2	1867.9	2016.1	2251.9	2508.6	2612.9	2640.1	2704.8	2711.0
62.5°	12947.9	9533.5	2437.6	1732.2	1880.4	2099.5	2395.9	2542.0	2596.3	2696.4	2706.9
64°	12463.7	9066.0	2164.2	1646.7	1792.7	2014.0	2339.5	2523.2	2594.2	2727.7	2736.1
65°	12108.9	8725.8	1993.1	1592.4	1736.4	1957.6	2308.2	2529.5	2612.9	2775.7	2788.3
67.5°	10802.4	7555.0	1648.7	1465.1	1602.8	1861.6	2314.5	2581.6	2608.8	2794.5	2792.4
70°	8938.7	6014.8	1381.6	1348.2	1473.4	1784.4	2289.5	2498.2	2500.2	2623.4	2594.2
72.5°	6693.1	4445.3	1197.9	1227.2	1329.4	1600.7	2162.2	2385.5	2350.0	2366.7	2337.5
75°	4597.7	2940.6	1031.0	1097.8	1179.2	1415.0	1982.7	2166.3	2110.0	2089.1	2068.2
77.5°	2454.3	1625.8	857.8	970.5	1024.7	1223.0	1730.1	1907.5	1849.1	1767.7	1740.6
80°	993.4	765.9	690.8	803.5	834.8	985.1	1440.0	1550.7	1506.8	1364.9	1319.0
82.5°	498.8	459.1	542.6	632.4	634.5	703.3	1070.6	1175.0	1076.9	903.7	864.0
85°	260.9	269.2	373.6	444.5	392.4	379.8	642.8	711.7	653.2	567.7	511.3
87.5°	93.9	108.5	196.2	194.1	137.7	73.0	141.9	68.9	37.6	23.0	29.2
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)