

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: P458243

Luminaire Tested: **GALN-SA9C-827-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47749 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

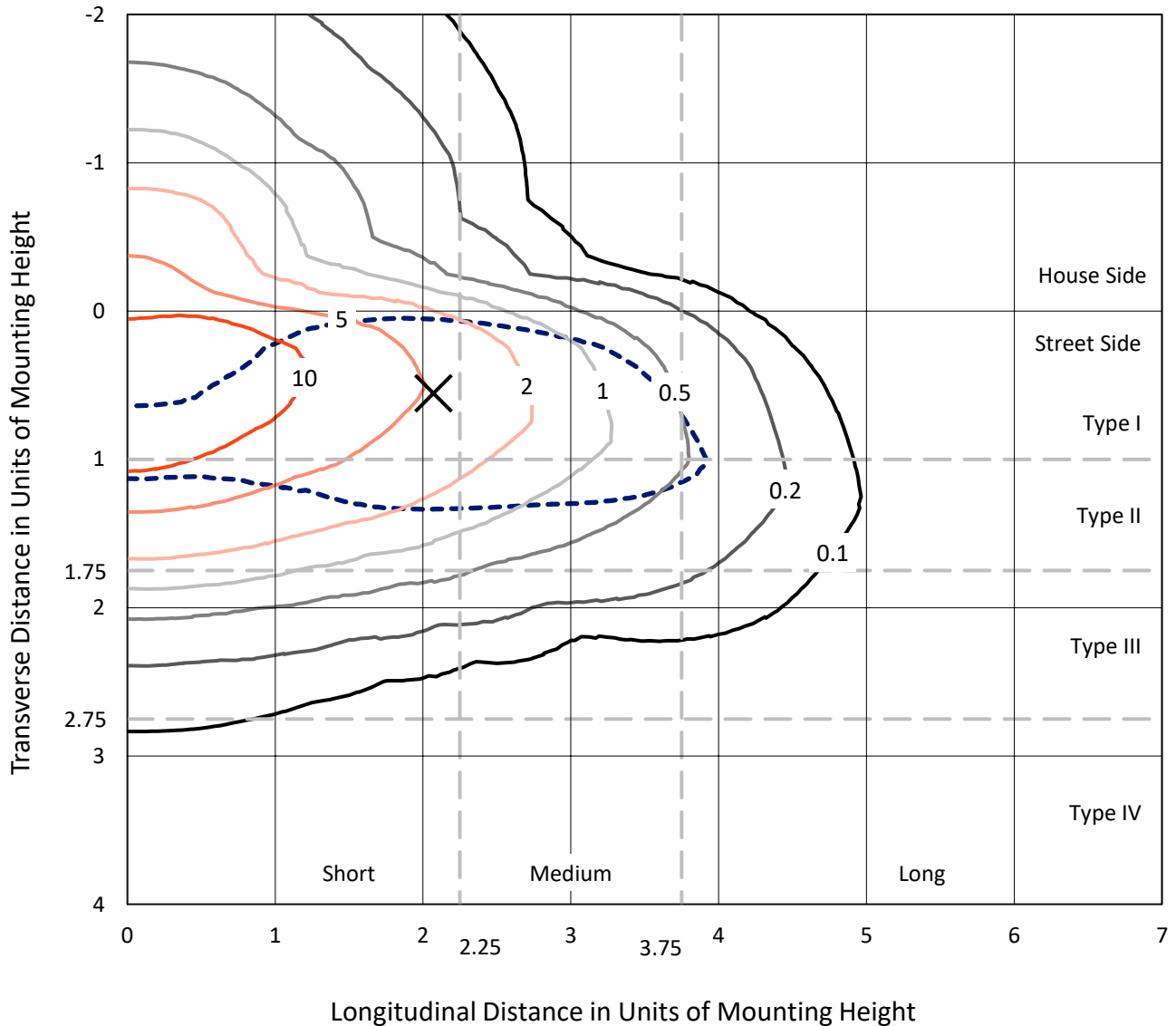
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

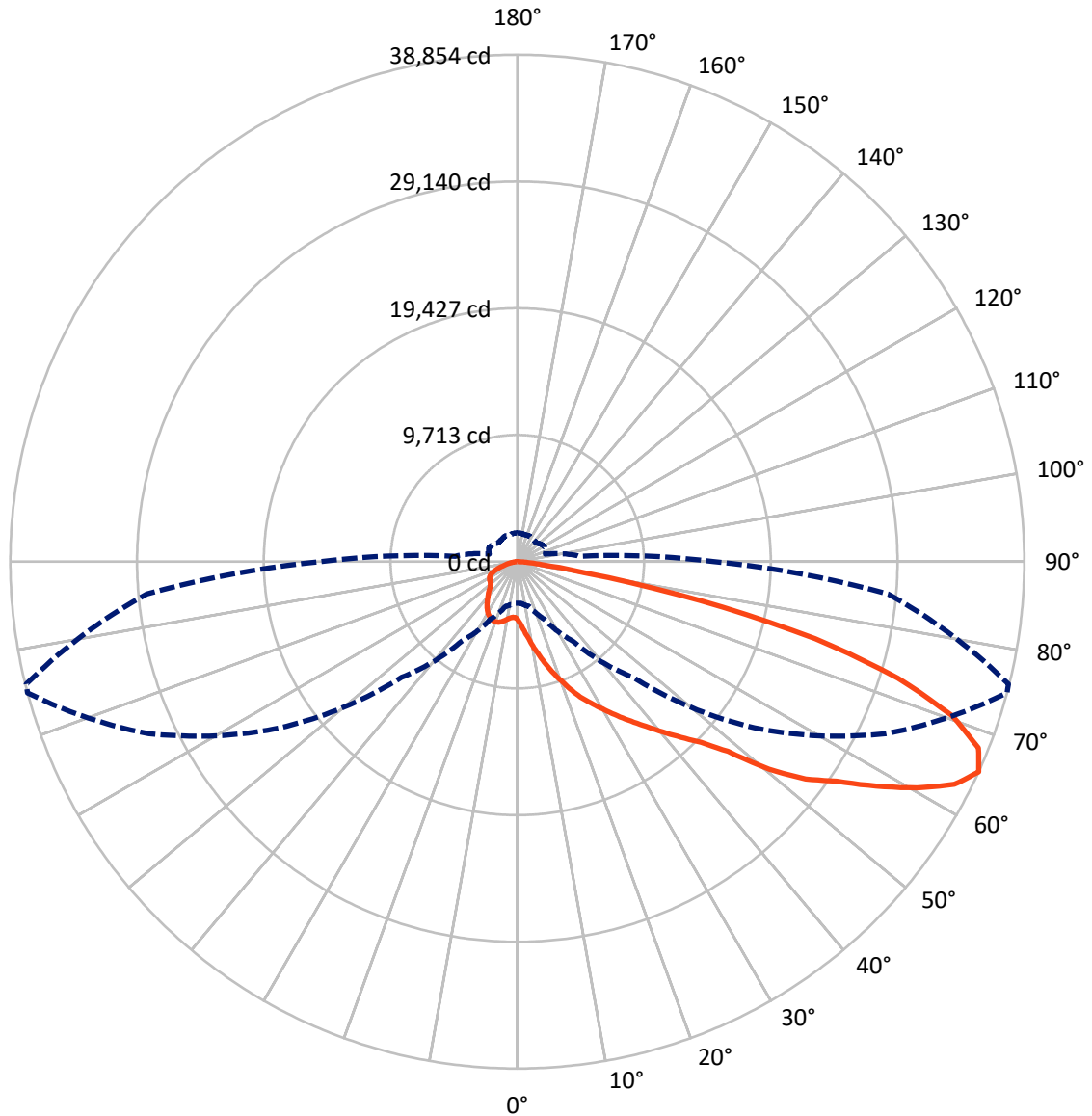
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8027.2	0.0	8027.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	39721.8	0.0	39721.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	47749.0	0.0	47749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.0	1.1
10°-20°	2111.3	4.4
20°-30°	4078.2	8.5
30°-40°	6624.3	13.9
40°-50°	9112.3	19.1
50°-60°	10758.6	22.5
60°-70°	9426.3	19.7
70°-80°	4500.2	9.4
80°-90°	598.8	1.3
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°	47749.0	100.0
0°-180°	47749.0	100.0

Coefficient of Utilization



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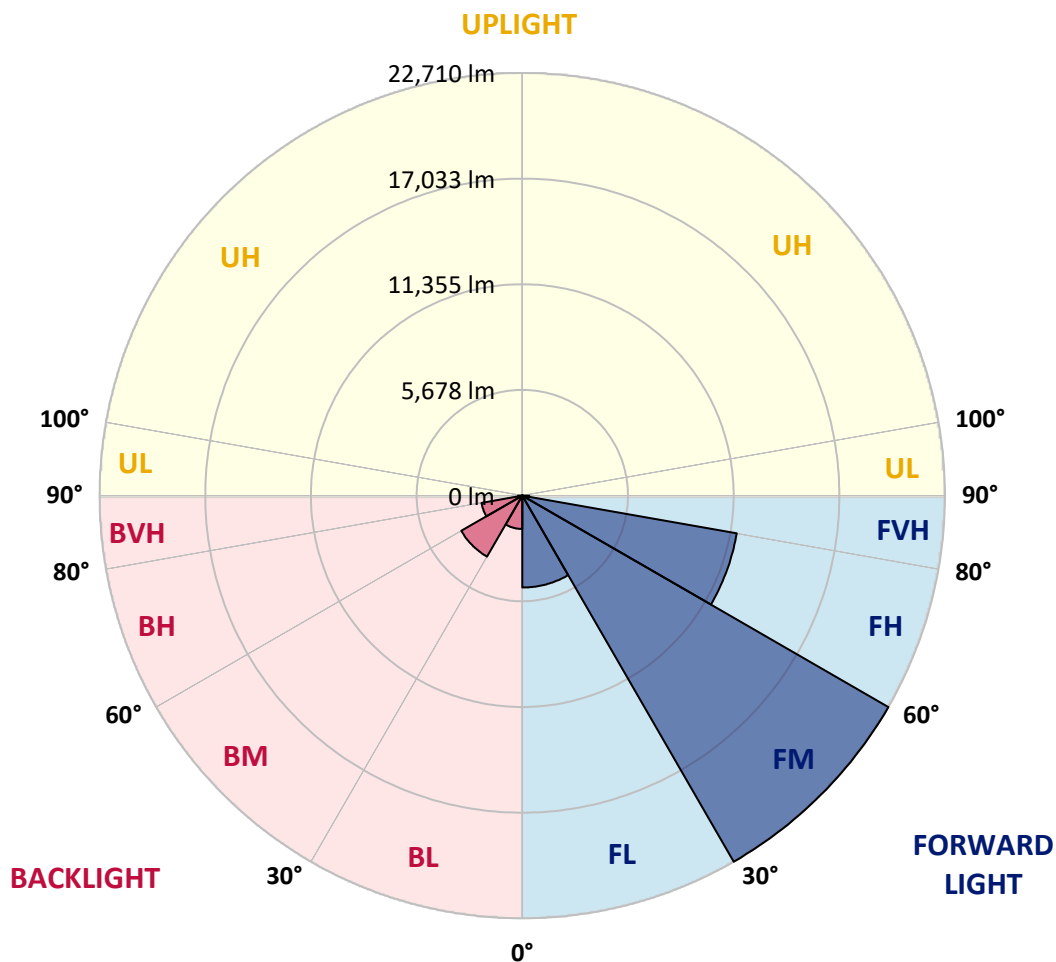
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4936.5	10.3			
FM	(30°-60°)	22710.4	47.6			
FH	(60°-80°)	11700.7	24.5			G4/12000
FVH	(80°-90°)	374.2	0.8			G3/500
BL	(0°-30°)	1792.1	3.8	B3/2500		
BM	(30°-60°)	3784.8	7.9	B3/5000		
BH	(60°-80°)	2225.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	224.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5
2.5°	5894.6	5855.7	5814.3	5700.4	5578.6	5441.4	5244.5	5055.5	4804.2	4796.5	4610.0
5°	7528.8	7502.9	7319.0	7212.8	6930.6	6555.0	6236.5	5741.8	5283.4	5229.0	4866.4
7.5°	9031.0	8929.9	8860.0	8668.4	8388.7	7906.9	7290.5	6622.4	5855.7	5783.2	5182.4
10°	10162.7	10152.4	10116.1	9950.4	9740.6	9261.5	8577.7	7619.5	6580.9	6438.5	5565.7
12.5°	11009.6	11017.4	11012.2	11009.6	10859.4	10452.8	9712.1	8702.0	7313.9	7212.8	6008.5
15°	11566.5	11644.2	11675.2	11804.7	11817.7	11545.7	10908.6	9748.4	8140.0	7989.8	6485.1
17.5°	11934.2	11973.1	12118.1	12338.2	12516.9	12467.7	11900.6	10717.0	8984.3	8733.1	6979.8
20°	12286.4	12353.8	12465.2	12765.6	13081.5	13226.6	12827.7	11708.9	9820.9	9660.3	7526.2
22.5°	13019.4	13115.2	13154.1	13306.9	13576.2	13832.6	13651.3	12659.4	10737.7	10520.1	8106.4
25°	14259.9	14361.0	14252.2	14215.9	14304.0	14430.9	14392.0	13555.5	11602.7	11291.9	8655.4
27.5°	15876.0	15889.0	15676.6	15474.6	15257.1	15192.3	15073.2	14350.6	12353.8	12094.8	9207.1
30°	17611.3	17549.1	17196.9	16831.7	16463.9	16101.4	15759.5	15117.2	13190.3	12892.5	9748.4
32.5°	19222.2	19188.5	18797.4	18230.3	17608.7	17266.8	16575.3	15891.6	14086.4	13798.9	10305.2
35°	20429.1	20478.3	20048.4	19429.4	18750.8	18447.8	17575.0	16704.8	15013.6	14700.2	10911.2
37.5°	21286.3	21260.4	20879.7	20343.6	19747.9	19483.8	18743.0	17593.1	16010.7	15710.3	11574.2
40°	21591.9	21576.4	21294.1	20903.0	20524.9	20431.7	19965.5	18551.4	17152.9	16800.6	12371.9
42.5°	21397.7	21431.4	21244.9	21138.7	21068.8	21136.1	21180.1	19807.5	18398.6	18074.9	13236.9
45°	20802.0	20783.9	20758.0	20931.5	21325.2	21768.0	22381.8	20993.7	19753.1	19494.1	14397.2
47.5°	19737.6	19867.1	19931.8	20410.9	21270.8	22319.7	23764.8	22583.9	21718.8	21493.5	16166.1
50°	18248.4	18352.0	18735.3	19587.4	20869.4	22526.9	25116.8	25184.1	24997.6	24575.5	18087.8
52.5°	15922.7	16083.2	16873.1	18434.9	20045.8	22441.4	25935.2	27414.0	27660.0	27344.1	19981.0
55°	13319.8	13545.1	14379.1	16427.7	18911.4	21975.2	26499.8	28706.4	29687.9	29395.3	21804.3
57.5°	10771.4	11009.6	11866.9	13850.7	16932.7	20944.5	26870.1	30146.3	32448.8	32068.0	24073.0
60°	8072.7	8321.3	9056.9	11100.3	14114.9	18929.5	26618.9	31394.7	35207.0	35043.8	26344.4
62.5°	5208.3	5482.8	6122.5	7813.7	10849.1	16176.5	25274.8	32083.6	37594.9	37398.0	28001.9
65°	3172.6	3203.7	3555.9	4850.9	7425.2	12524.7	22200.6	31169.4	38853.6	38794.0	28506.9
67.5°	2051.2	2100.4	2261.0	2905.9	4452.0	8699.4	17751.1	28152.1	38118.0	38097.3	27463.2
70°	1732.6	1748.2	1820.7	1960.5	2587.3	5275.6	12465.2	23342.7	35323.5	35323.5	24953.6
72.5°	1548.8	1569.5	1595.4	1639.4	1846.6	2988.7	7438.2	18170.7	30498.6	30700.6	21239.7
75°	1406.3	1401.1	1416.7	1424.4	1574.7	1952.8	3846.0	13439.0	23593.9	23189.9	15381.4
77.5°	1204.3	1212.1	1204.3	1238.0	1390.8	1486.6	1952.8	9018.0	14298.8	13775.6	7720.5
80°	989.3	1002.3	1015.2	1036.0	1188.8	1129.2	1173.2	4110.2	5288.6	5177.2	2385.3
82.5°	743.3	761.4	782.1	831.4	935.0	745.9	740.7	1755.9	1908.8	1748.2	878.0
85°	300.4	354.8	536.1	585.3	587.9	409.2	455.8	732.9	779.6	761.4	344.5
87.5°	69.9	82.9	173.5	261.6	240.9	152.8	168.3	238.3	271.9	251.2	116.5
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°	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5	4436.5
2.5°	4524.5	4433.9	4278.5	4159.4	4073.9	3998.8	3952.2	3923.7	3913.3	3910.7	3913.3
5°	4677.3	4516.8	4270.7	4115.3	4029.9	3980.7	3952.2	3949.6	3952.2	3954.8	3947.0
7.5°	4887.1	4656.6	4335.5	4190.4	4125.7	4089.4	4076.5	4071.3	4073.9	4071.3	4071.3
10°	5166.8	4850.9	4462.4	4312.2	4257.8	4216.3	4195.6	4182.7	4172.3	4162.0	4156.8
12.5°	5475.0	5065.8	4599.6	4454.6	4376.9	4312.2	4265.6	4231.9	4208.6	4185.3	4180.1
15°	5819.5	5293.7	4752.5	4550.4	4439.1	4343.2	4263.0	4208.6	4167.1	4133.5	4130.9
17.5°	6148.4	5508.7	4856.0	4594.5	4431.3	4296.6	4190.4	4115.3	4063.5	4019.5	4014.3
20°	6500.6	5713.3	4902.7	4566.0	4353.6	4190.4	4050.6	3959.9	3900.4	3851.2	3843.4
22.5°	6855.4	5886.8	4897.5	4475.3	4218.9	4027.3	3879.7	3783.8	3713.9	3664.7	3646.6
25°	7194.7	6026.7	4832.7	4330.3	4032.5	3833.0	3682.8	3594.8	3532.6	3473.0	3473.0
27.5°	7500.3	6109.6	4711.0	4154.2	3840.8	3631.0	3511.9	3431.6	3374.6	3335.8	3312.5
30°	7800.8	6148.4	4545.3	3931.5	3638.8	3460.1	3364.3	3317.7	3265.9	3221.8	3216.6
32.5°	8070.1	6140.6	4338.1	3713.9	3447.1	3320.2	3281.4	3245.1	3190.7	3128.6	3113.1
35°	8331.7	6088.8	4092.0	3475.6	3286.6	3237.4	3247.7	3195.9	3097.5	3019.8	3006.9
37.5°	8616.6	5995.6	3822.7	3281.4	3151.9	3198.5	3224.4	3110.5	2949.9	2828.2	2799.7
40°	8945.5	5889.4	3543.0	3087.2	3045.7	3162.3	3162.3	2952.5	2732.3	2657.2	2636.5
42.5°	9331.4	5801.4	3309.9	2924.0	2957.7	3074.2	3061.3	2742.7	2652.0	2613.2	2602.8
45°	9942.6	5770.3	3069.0	2781.5	2885.1	2970.6	2864.4	2670.2	2618.4	2587.3	2576.9
47.5°	10908.6	5806.5	2856.7	2675.4	2802.3	2867.0	2644.3	2621.0	2584.7	2540.7	2535.5
50°	11804.7	5772.9	2706.4	2615.8	2729.7	2742.7	2553.6	2561.4	2540.7	2491.5	2481.1
52.5°	12537.7	5666.7	2610.6	2584.7	2667.6	2525.1	2468.2	2496.7	2488.9	2426.7	2416.4
55°	13343.1	5601.9	2564.0	2584.7	2626.2	2336.1	2387.9	2429.3	2419.0	2374.9	2372.3
57.5°	14319.5	5614.9	2530.3	2592.5	2584.7	2240.3	2307.6	2356.8	2354.2	2341.3	2341.3
60°	15319.2	5620.1	2478.5	2589.9	2535.5	2165.1	2224.7	2294.6	2299.8	2307.6	2307.6
62.5°	15650.7	5394.7	2377.5	2543.3	2426.7	2092.6	2147.0	2242.8	2237.7	2258.4	2261.0
65°	15031.7	4770.6	2227.3	2437.1	2286.9	2040.8	2087.5	2175.5	2147.0	2201.4	2211.8
67.5°	13682.4	3947.0	1994.2	2245.4	2131.5	1986.4	2048.6	2082.3	2030.5	2136.7	2139.3
70°	11825.4	3082.0	1699.0	1973.5	1955.4	1929.5	2017.5	1965.7	1893.2	2022.7	1996.8
72.5°	9888.2	2354.2	1357.1	1613.5	1719.7	1844.0	1963.1	1815.5	1714.5	1753.4	1706.7
75°	7427.8	1740.4	1090.3	1263.9	1432.2	1722.3	1913.9	1634.2	1478.8	1442.6	1432.2
77.5°	3786.4	1137.0	815.8	945.3	1074.8	1556.5	1846.6	1421.9	1225.0	1168.0	1142.1
80°	1351.9	707.0	575.0	652.7	725.2	1339.0	1613.5	1175.8	950.5	940.1	950.5
82.5°	626.8	455.8	385.9	427.3	429.9	893.5	1230.2	878.0	722.6	1098.1	927.2
85°	269.3	227.9	217.6	212.4	196.8	398.8	691.5	471.4	735.5	328.9	303.0
87.5°	80.3	90.6	80.3	59.6	44.0	44.0	69.9	25.9	18.1	12.9	12.9
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)