

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: P457228

Luminaire Tested: **GALN-SA8C-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457228
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-SA8C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 57857 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

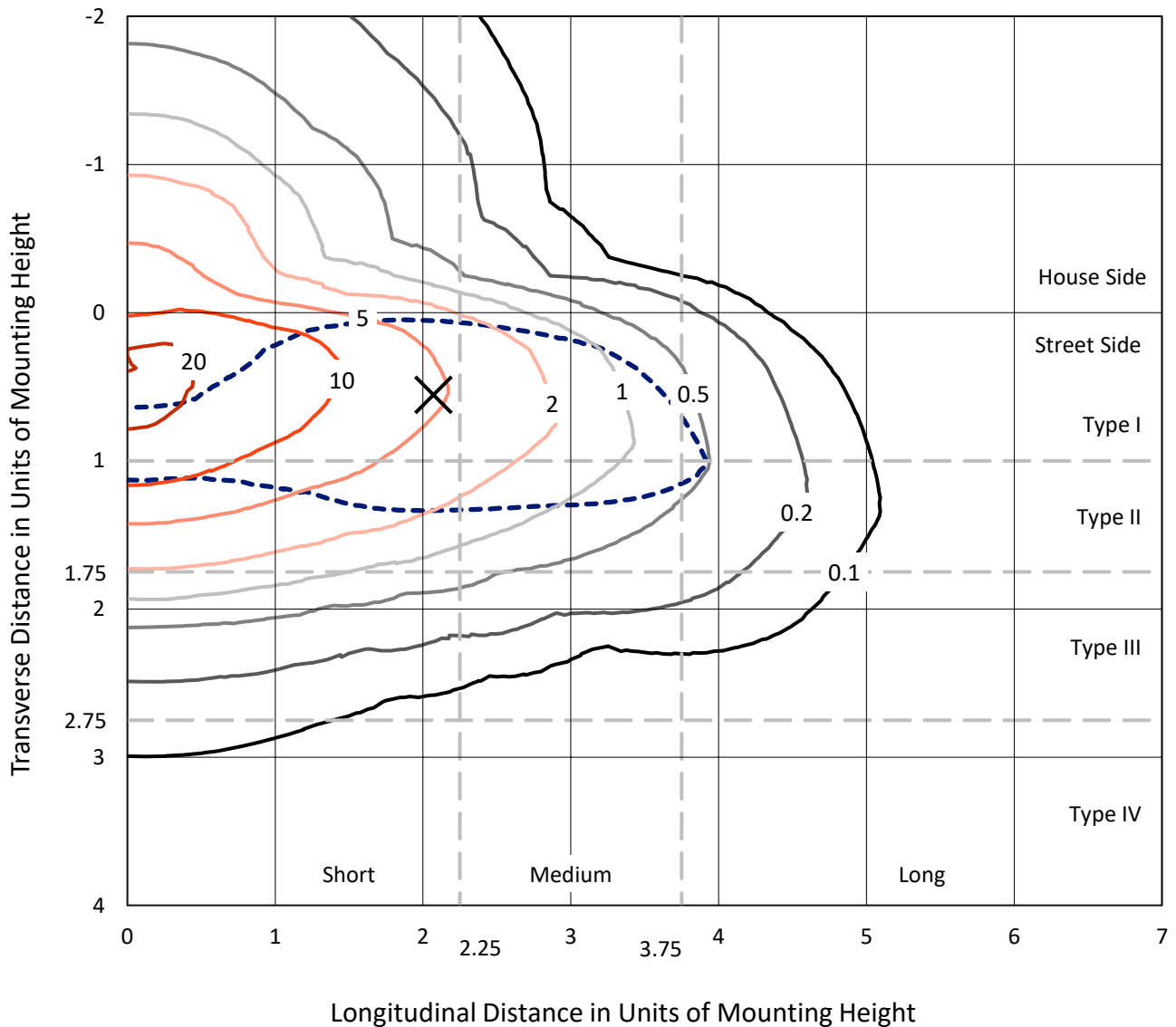
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

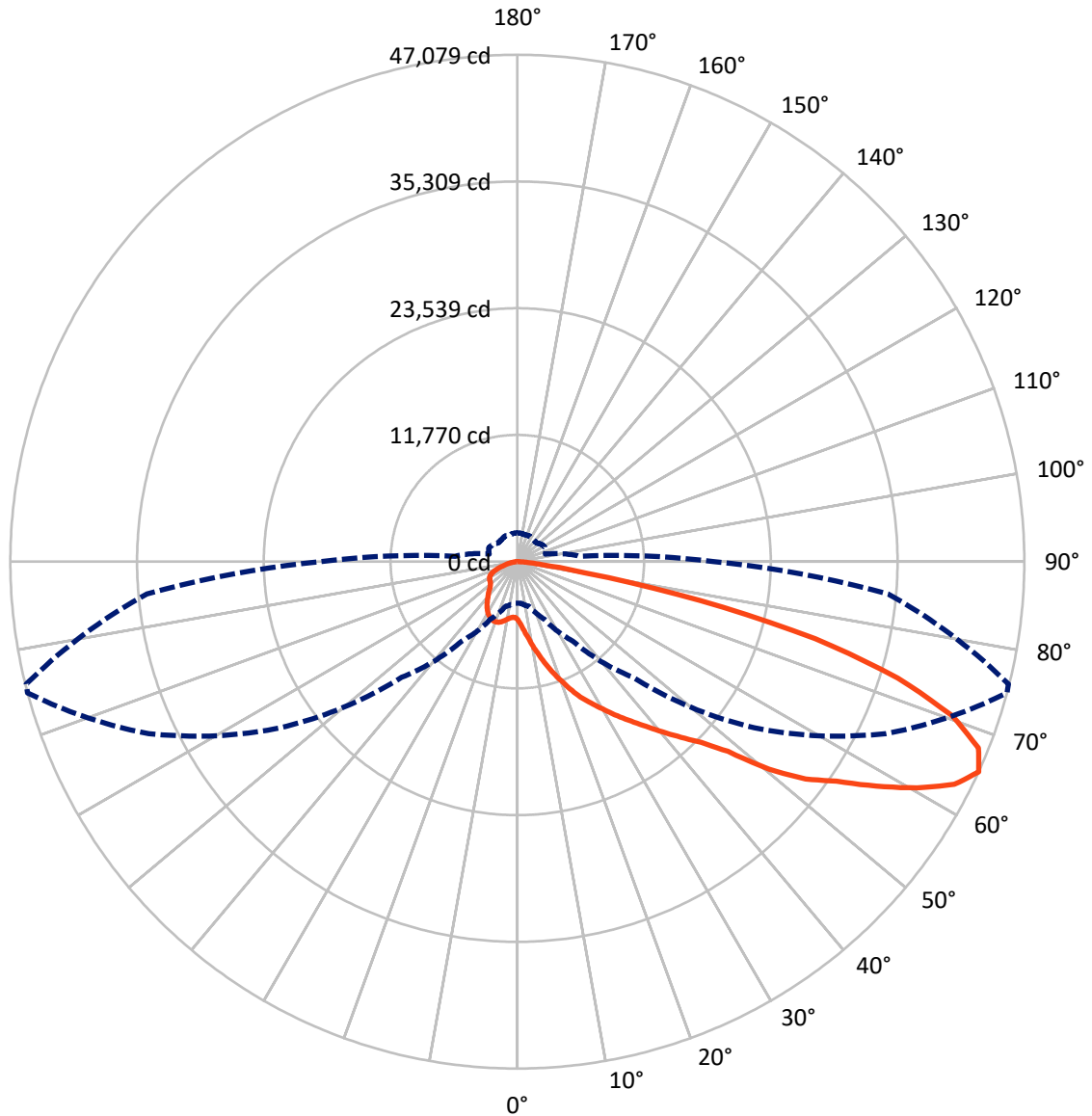
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 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	9726.5	0.0	9726.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	48130.5	0.0	48130.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	57857.0	0.0	57857.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.1	1.1
10°-20°	2558.2	4.4
20°-30°	4941.6	8.5
30°-40°	8026.6	13.9
40°-50°	11041.3	19.1
50°-60°	13036.1	22.5
60°-70°	11421.7	19.7
70°-80°	5452.8	9.4
80°-90°	725.6	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°	57857.0	100.0
0°-180°	57857.0	100.0



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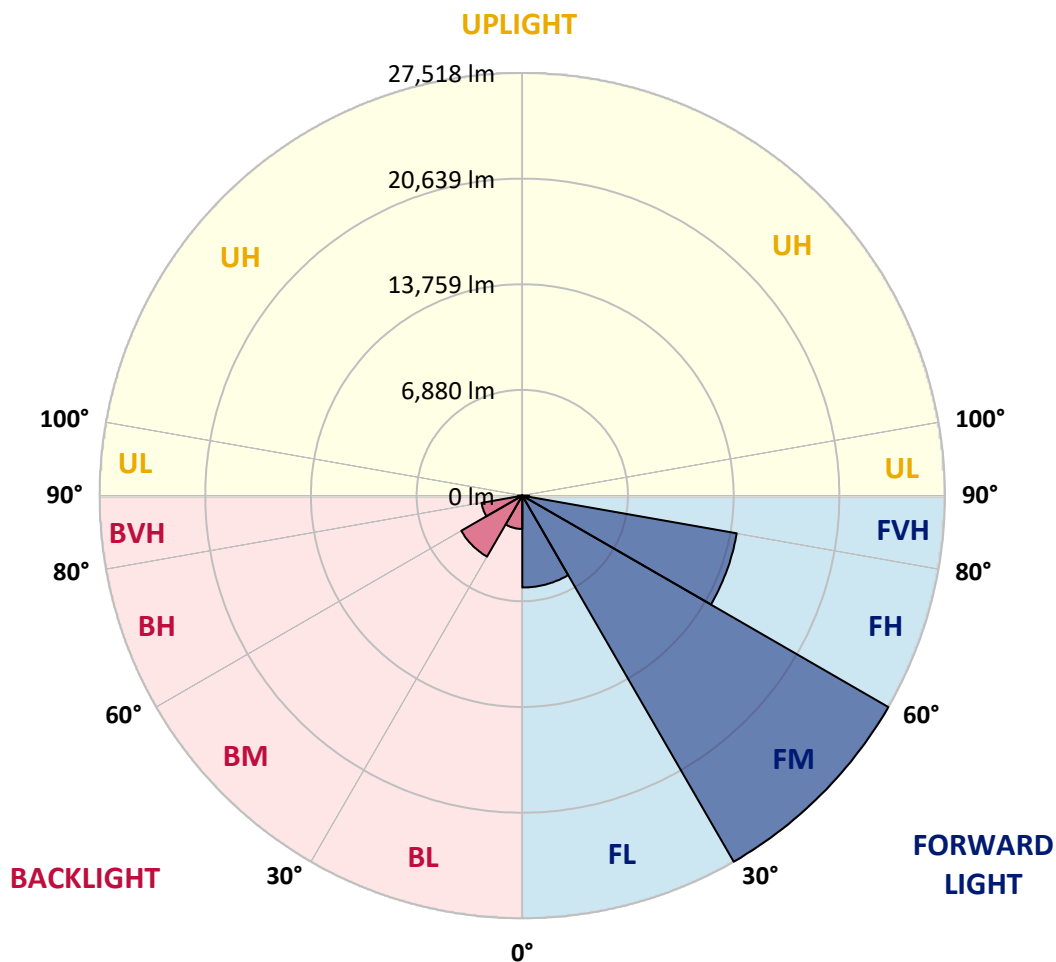
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5981.5	10.3			
FM	(30°-60°)	27518.0	47.6			
FH	(60°-80°)	14177.6	24.5			G5
FVH	(80°-90°)	453.4	0.8			G3/500
BL	(0°-30°)	2171.4	3.8	B3/2500		
BM	(30°-60°)	4586.0	7.9	B3/5000		
BH	(60°-80°)	2697.0	4.7	B4/5000		G4/5000
BVH	(80°-90°)	272.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6
2.5°	7142.4	7095.4	7045.1	6907.1	6759.6	6593.2	6354.7	6125.7	5821.3	5811.8	5585.9
5°	9122.6	9091.2	8868.4	8739.7	8397.7	7942.7	7556.7	6957.3	6401.8	6335.9	5896.6
7.5°	10942.7	10820.3	10735.6	10503.4	10164.5	9580.8	8833.9	8024.2	7095.4	7007.5	6279.4
10°	12314.1	12301.5	12257.6	12056.8	11802.6	11222.0	10393.5	9232.4	7974.0	7801.4	6743.9
12.5°	13340.3	13349.7	13343.4	13340.3	13158.3	12665.6	11768.1	10544.2	8862.1	8739.7	7280.5
15°	14015.0	14109.1	14146.8	14303.7	14319.4	13989.9	13217.9	11812.0	9863.2	9681.2	7857.9
17.5°	14460.6	14507.7	14683.4	14950.1	15166.7	15107.0	14419.8	12985.7	10886.2	10581.8	8457.3
20°	14887.4	14969.0	15103.9	15467.9	15850.8	16026.5	15543.2	14187.6	11899.9	11705.3	9119.5
22.5°	15775.5	15891.6	15938.6	16123.8	16450.2	16760.8	16541.2	15339.3	13010.8	12747.2	9822.4
25°	17278.6	17401.0	17269.2	17225.3	17332.0	17485.8	17438.7	16425.1	14058.9	13682.3	10487.7
27.5°	19236.8	19252.5	18995.2	18750.4	18486.8	18408.4	18264.0	17388.5	14969.0	14655.1	11156.1
30°	21339.4	21264.1	20837.3	20394.8	19949.2	19509.9	19095.6	18317.4	15982.6	15621.7	11812.0
32.5°	23291.3	23250.5	22776.7	22089.4	21336.3	20922.0	20084.1	19255.7	17068.8	16720.0	12486.7
35°	24753.7	24813.3	24292.4	23542.4	22720.2	22353.0	21295.5	20241.0	18191.8	17812.1	13221.0
37.5°	25792.4	25761.0	25299.7	24650.1	23928.4	23608.3	22710.8	21317.4	19400.0	19036.0	14024.4
40°	26162.7	26143.9	25801.8	25328.0	24869.8	24756.8	24192.0	22478.5	20783.9	20357.2	14990.9
42.5°	25927.4	25968.2	25742.2	25613.6	25528.8	25610.4	25663.8	24000.5	22293.4	21901.1	16039.1
45°	25205.6	25183.6	25152.2	25362.5	25839.5	26376.1	27119.9	25437.8	23934.6	23620.8	17445.0
47.5°	23915.8	24072.7	24151.2	24731.7	25773.6	27044.6	28795.6	27364.6	26316.5	26043.5	19588.3
50°	22111.4	22236.9	22701.4	23733.8	25287.2	27295.6	30433.8	30515.3	30289.4	29777.9	21916.8
52.5°	19293.3	19487.9	20445.0	22337.3	24289.3	27192.0	31425.4	33217.3	33515.4	33132.6	24210.8
55°	16139.5	16412.5	17423.0	19905.3	22914.8	26627.2	32109.5	34783.2	35972.6	35618.0	26420.1
57.5°	13051.6	13340.3	14379.0	16782.8	20517.2	25378.2	32558.3	36528.0	39317.8	38856.5	29169.1
60°	9781.6	10082.9	10974.1	13450.1	17102.9	22936.7	32253.9	38040.6	42660.0	42462.3	31921.2
62.5°	6310.8	6643.5	7418.6	9467.8	13145.7	19600.9	30625.2	38875.4	45553.3	45314.8	33929.6
65°	3844.2	3881.9	4308.7	5877.7	8997.1	15176.1	26900.2	37767.6	47078.5	47006.3	34541.6
67.5°	2485.4	2545.0	2739.6	3521.0	5394.5	10541.0	21508.9	34111.7	46187.2	46162.1	33276.9
70°	2099.4	2118.2	2206.1	2375.6	3135.0	6392.4	15103.9	28284.1	42801.2	42801.2	30236.0
72.5°	1876.6	1901.7	1933.1	1986.4	2237.5	3621.4	9012.8	22017.2	36954.8	37199.6	25735.9
75°	1704.0	1697.7	1716.6	1726.0	1908.0	2366.2	4660.1	16283.8	28588.5	28099.0	18637.5
77.5°	1459.2	1468.7	1459.2	1500.0	1685.2	1801.3	2366.2	10927.0	17325.7	16691.8	9354.8
80°	1198.8	1214.5	1230.2	1255.3	1440.4	1368.2	1421.6	4980.2	6408.1	6273.2	2890.2
82.5°	900.6	922.6	947.7	1007.3	1132.9	903.8	897.5	2127.7	2312.8	2118.2	1063.8
85°	364.0	429.9	649.6	709.2	712.4	495.8	552.3	888.1	944.6	922.6	417.4
87.5°	84.7	100.4	210.3	317.0	291.8	185.2	204.0	288.7	329.5	304.4	141.2
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°	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6	5375.6
2.5°	5482.3	5372.5	5184.2	5039.9	4936.3	4845.3	4788.8	4754.3	4741.7	4738.6	4741.7
5°	5667.5	5472.9	5174.8	4986.5	4883.0	4823.3	4788.8	4785.7	4788.8	4792.0	4782.5
7.5°	5921.7	5642.4	5253.3	5077.5	4999.1	4955.1	4939.4	4933.2	4936.3	4933.2	4933.2
10°	6260.6	5877.7	5407.0	5225.0	5159.1	5108.9	5083.8	5068.1	5055.6	5043.0	5036.7
12.5°	6634.0	6138.2	5573.3	5397.6	5303.5	5225.0	5168.5	5127.7	5099.5	5071.2	5065.0
15°	7051.4	6414.4	5758.5	5513.7	5378.8	5262.7	5165.4	5099.5	5049.3	5008.5	5005.3
17.5°	7450.0	6674.8	5884.0	5567.1	5369.4	5206.2	5077.5	4986.5	4923.8	4870.4	4864.1
20°	7876.7	6922.8	5940.5	5532.6	5275.2	5077.5	4908.1	4798.2	4726.0	4666.4	4657.0
22.5°	8306.7	7133.0	5934.2	5422.7	5112.0	4879.8	4700.9	4584.8	4500.1	4440.5	4418.5
25°	8717.8	7302.5	5855.8	5247.0	4886.1	4644.5	4462.4	4355.7	4280.4	4208.3	4208.3
27.5°	9088.1	7402.9	5708.3	5033.6	4653.9	4399.7	4255.3	4158.0	4089.0	4041.9	4013.7
30°	9452.1	7450.0	5507.4	4763.7	4409.1	4192.6	4076.5	4020.0	3957.2	3903.9	3897.6
32.5°	9778.5	7440.5	5256.4	4500.1	4176.9	4023.1	3976.0	3932.1	3866.2	3790.9	3772.1
35°	10095.4	7377.8	4958.3	4211.4	3982.3	3922.7	3935.2	3872.5	3753.2	3659.1	3643.4
37.5°	10440.6	7264.8	4631.9	3976.0	3819.1	3875.6	3907.0	3768.9	3574.3	3426.9	3392.3
40°	10839.2	7136.1	4293.0	3740.7	3690.5	3831.7	3831.7	3577.5	3310.7	3219.7	3194.6
42.5°	11306.7	7029.4	4010.6	3543.0	3583.8	3725.0	3709.3	3323.3	3213.5	3166.4	3153.8
45°	12047.3	6991.8	3718.7	3370.4	3495.9	3599.5	3470.8	3235.4	3172.7	3135.0	3122.5
47.5°	13217.9	7035.7	3461.4	3241.7	3395.5	3473.9	3204.0	3175.8	3131.9	3078.5	3072.2
50°	14303.7	6994.9	3279.4	3169.5	3307.6	3323.3	3094.2	3103.6	3078.5	3018.9	3006.3
52.5°	15191.8	6866.3	3163.3	3131.9	3232.3	3059.7	2990.7	3025.2	3015.8	2940.4	2927.9
55°	16167.7	6787.8	3106.8	3131.9	3182.1	2830.6	2893.4	2943.6	2931.0	2877.7	2874.5
57.5°	17350.8	6803.5	3066.0	3141.3	3131.9	2714.5	2796.1	2855.7	2852.6	2836.9	2836.9
60°	18562.1	6809.8	3003.2	3138.1	3072.2	2623.5	2695.7	2780.4	2786.7	2796.1	2796.1
62.5°	18963.8	6536.8	2880.8	3081.7	2940.4	2535.6	2601.5	2717.6	2711.4	2736.5	2739.6
65°	18213.8	5780.5	2698.8	2953.0	2771.0	2472.9	2529.3	2636.0	2601.5	2667.4	2680.0
67.5°	16578.8	4782.5	2416.4	2720.8	2582.7	2407.0	2482.3	2523.1	2460.3	2589.0	2592.1
70°	14328.8	3734.4	2058.6	2391.3	2369.3	2337.9	2444.6	2381.9	2294.0	2450.9	2419.5
72.5°	11981.4	2852.6	1644.4	1955.1	2083.7	2234.4	2378.7	2199.8	2077.5	2124.5	2068.0
75°	9000.2	2108.8	1321.2	1531.4	1735.4	2086.9	2319.1	1980.2	1791.9	1747.9	1735.4
77.5°	4588.0	1377.6	988.5	1145.4	1302.3	1886.0	2237.5	1722.8	1484.3	1415.3	1383.9
80°	1638.1	856.7	696.7	790.8	878.7	1622.4	1955.1	1424.7	1151.7	1139.1	1151.7
82.5°	759.4	552.3	467.6	517.8	520.9	1082.7	1490.6	1063.8	875.5	1330.6	1123.5
85°	326.4	276.2	263.6	257.3	238.5	483.3	837.9	571.1	891.2	398.5	367.2
87.5°	97.3	109.8	97.3	72.2	53.3	53.3	84.7	31.4	22.0	15.7	15.7
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)