

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: P458388

Luminaire Tested: **GALN-SA9D-740-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458388  
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-SA9D-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 71472 lumens  
Efficiency: N/A  
Efficacy: 129.5 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

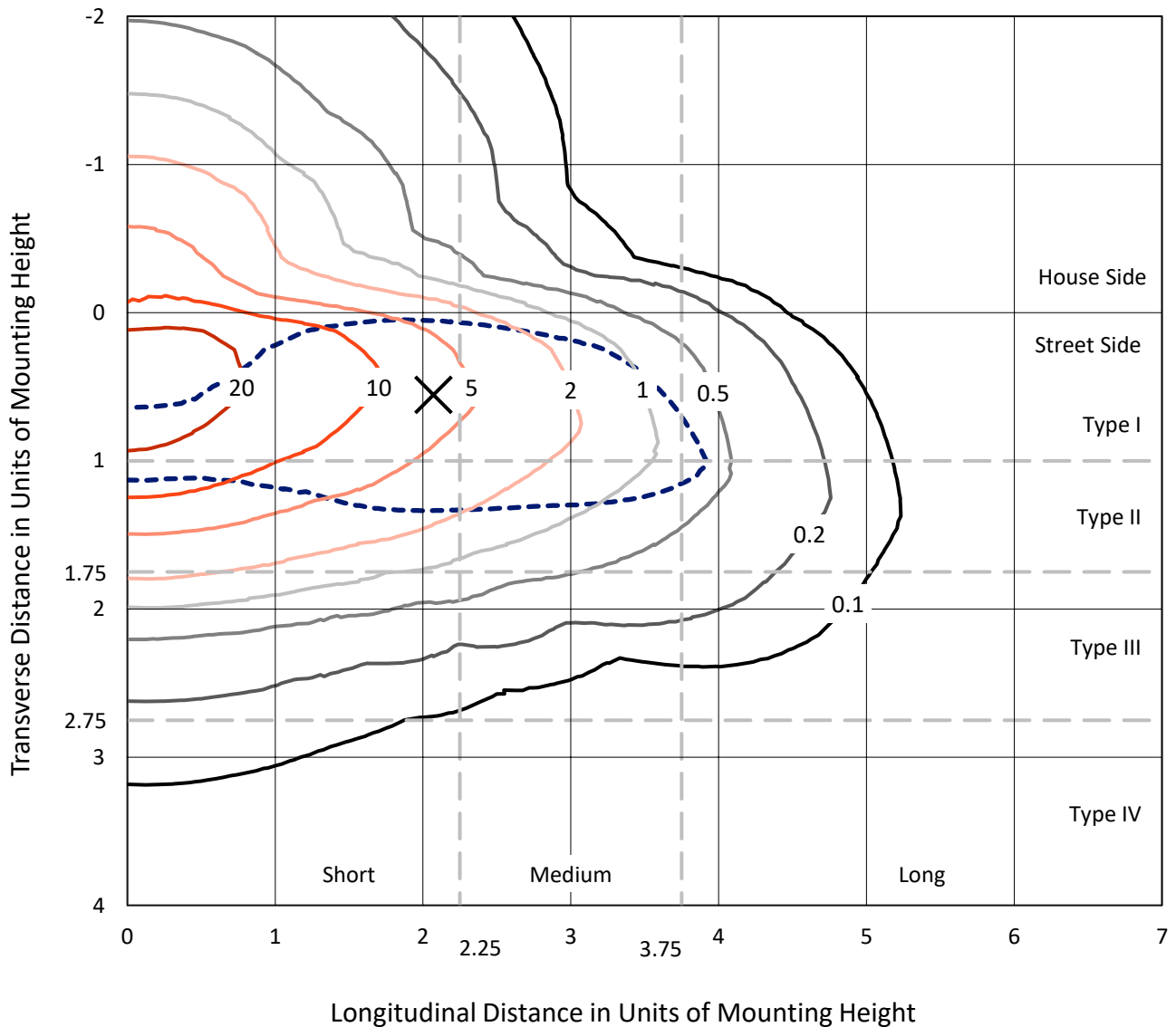
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

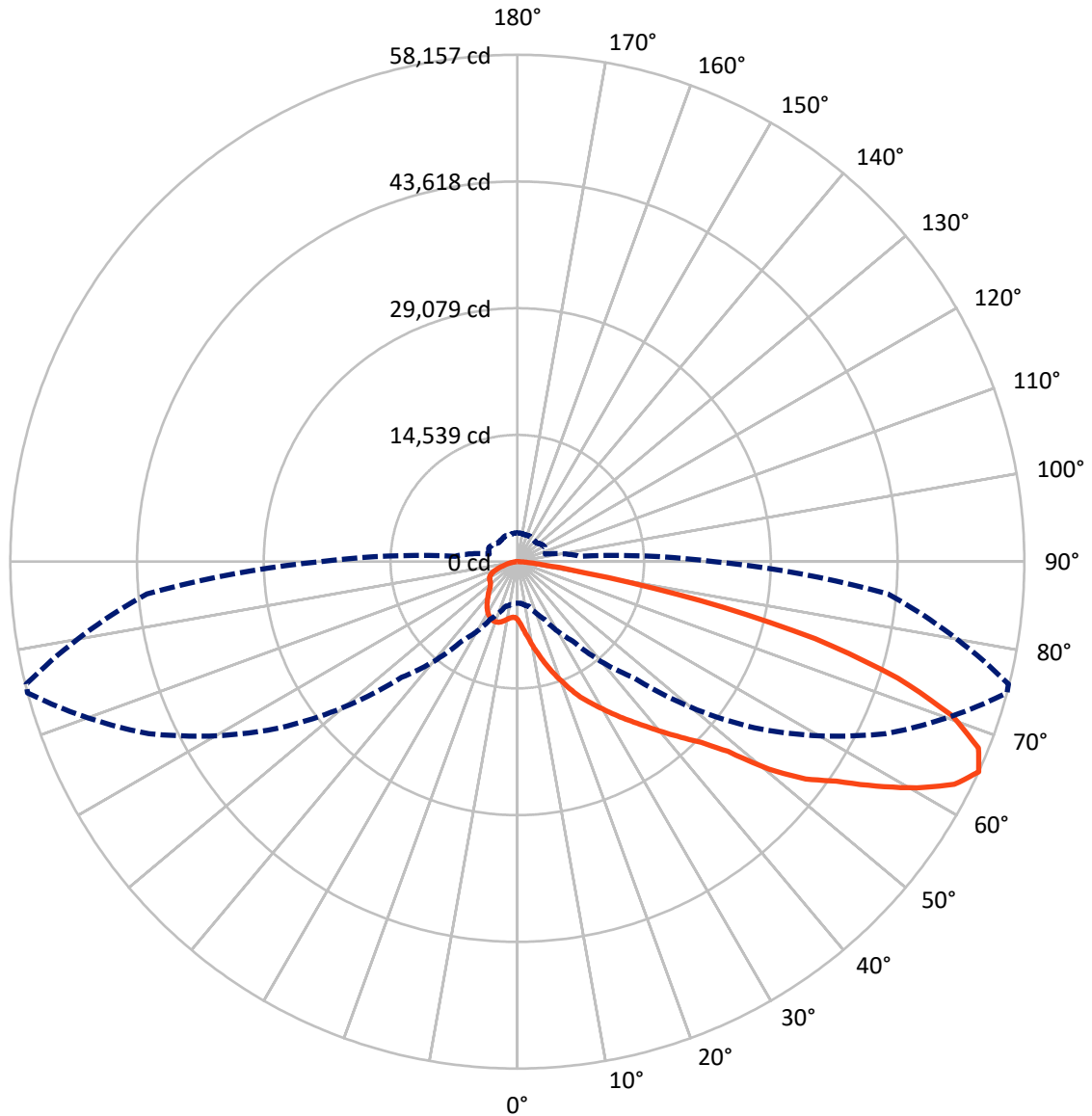
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 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
<b>House Side</b>	Lumens	12015.4	0.0	12015.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	59456.6	0.0	59456.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	71472.0	0.0	71472.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	806.8	1.1
10°-20°	3160.2	4.4
20°-30°	6104.4	8.5
30°-40°	9915.5	13.9
40°-50°	13639.6	19.1
50°-60°	16103.7	22.5
60°-70°	14109.5	19.7
70°-80°	6736.0	9.4
80°-90°	896.3	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°	71472.0	100.0
0°-180°	71472.0	100.0

**Coefficient of Utilization**



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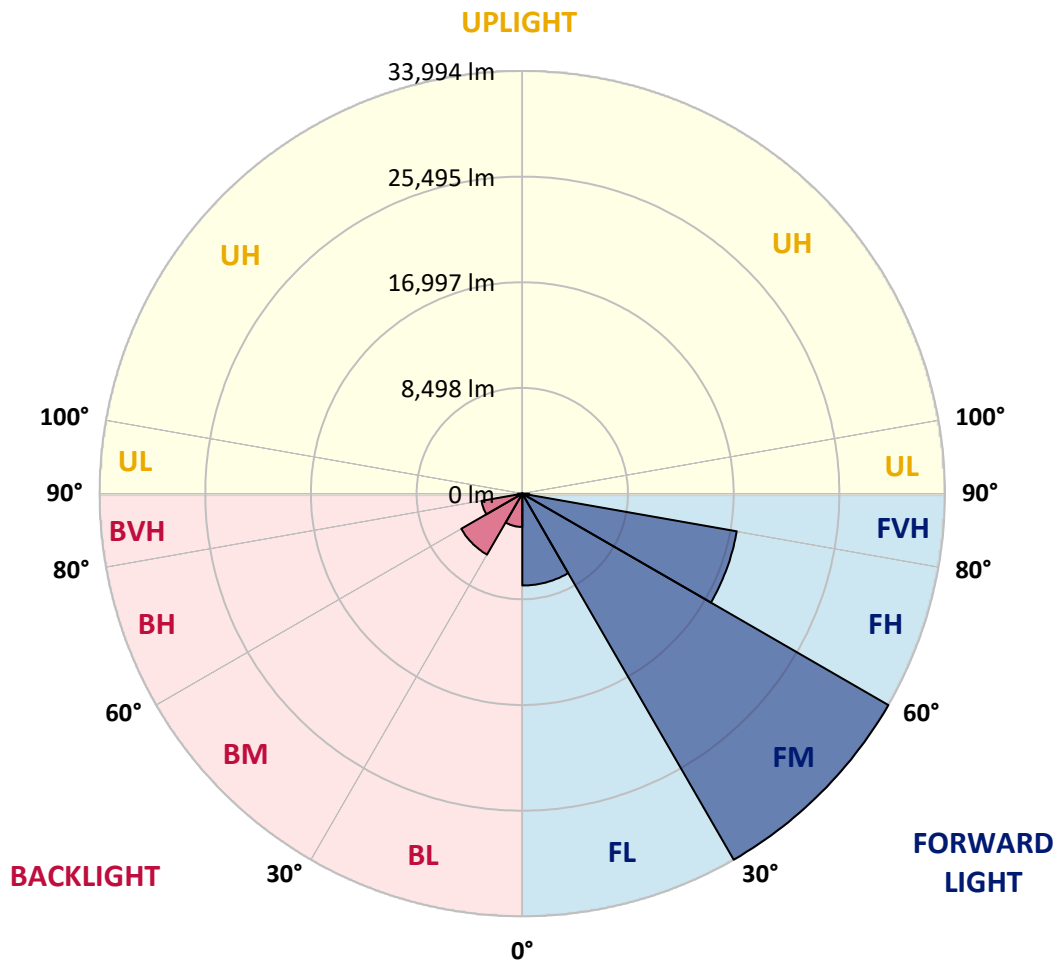
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7389.1	10.3			
FM	(30°-60°)	33993.6	47.6			
FH	(60°-80°)	17513.8	24.5			G5
FVH	(80°-90°)	560.1	0.8			G4/750
BL	(0°-30°)	2682.4	3.8	B4/5000		
BM	(30°-60°)	5665.2	7.9	B4/8500		
BH	(60°-80°)	3331.6	4.7	B4/5000		G4/5000
BVH	(80°-90°)	336.2	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°	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7
2.5°	8823.2	8765.0	8703.0	8532.4	8350.2	8144.8	7850.2	7567.2	7191.1	7179.5	6900.4
5°	11269.3	11230.6	10955.3	10796.4	10373.8	9811.7	9334.9	8594.5	7908.3	7826.9	7284.2
7.5°	13517.8	13366.6	13261.9	12975.0	12556.4	11835.3	10912.7	9912.5	8765.0	8656.5	7757.1
10°	15211.9	15196.4	15142.1	14894.0	14580.0	13862.8	12839.4	11405.0	9850.5	9637.3	8330.9
12.5°	16479.5	16491.1	16483.4	16479.5	16254.7	15646.0	14537.3	13025.4	10947.6	10796.4	8993.8
15°	17313.0	17429.3	17475.8	17669.6	17689.0	17282.0	16328.3	14591.6	12184.2	11959.4	9707.1
17.5°	17863.5	17921.6	18138.7	18468.2	18735.7	18662.1	17813.1	16041.5	13448.0	13072.0	10447.5
20°	18390.7	18491.5	18658.2	19107.9	19580.8	19797.9	19200.9	17526.2	14700.1	14459.8	11265.5
22.5°	19487.8	19631.2	19689.4	19918.1	20321.2	20705.0	20433.7	18948.9	16072.5	15746.8	12133.8
25°	21344.7	21495.9	21333.0	21278.8	21410.6	21600.5	21542.4	20290.2	17367.3	16902.1	12955.7
27.5°	23763.7	23783.1	23465.2	23162.8	22837.2	22740.3	22561.9	21480.4	18491.5	18103.8	13781.4
30°	26361.0	26268.0	25740.8	25194.2	24643.7	24101.0	23589.2	22627.8	19743.6	19297.8	14591.6
32.5°	28772.3	28721.9	28136.5	27287.5	26357.1	25845.4	24810.4	23786.9	21084.9	20654.6	15425.1
35°	30578.8	30652.4	30008.9	29082.4	28066.7	27613.2	26306.7	25004.2	22472.8	22003.7	16332.2
37.5°	31861.9	31823.2	31253.3	30450.9	29559.2	29163.8	28055.1	26333.9	23965.3	23515.6	17324.6
40°	32319.4	32296.1	31873.6	31288.2	30722.2	30582.7	29884.9	27768.2	25674.9	25147.6	18518.6
42.5°	32028.6	32079.0	31799.9	31641.0	31536.3	31637.1	31703.0	29648.4	27539.5	27054.9	19813.4
45°	31137.0	31109.9	31071.1	31330.8	31920.1	32583.0	33501.8	31423.9	29567.0	29179.3	21550.1
47.5°	29543.7	29737.6	29834.5	30551.6	31838.7	33408.7	35571.9	33804.1	32509.3	32172.1	24197.9
50°	27314.7	27469.7	28043.5	29318.9	31237.8	33718.8	37595.5	37696.3	37417.1	36785.3	27074.3
52.5°	23833.5	24073.8	25256.2	27593.8	30005.0	33590.9	38820.5	41034.0	41402.3	40929.4	29908.1
55°	19937.5	20274.7	21523.0	24589.4	28307.1	32893.1	39665.6	42968.5	44437.7	43999.6	32637.3
57.5°	16122.9	16479.5	17762.7	20732.2	25345.3	31350.2	40219.9	45123.9	48570.2	48000.3	36033.2
60°	12083.4	12455.6	13556.5	16615.2	21127.6	28334.2	39843.9	46992.4	52698.8	52454.6	39433.0
62.5°	7795.9	8206.8	9164.3	11695.8	16239.2	24213.4	37831.9	48023.6	56273.0	55978.4	41914.0
65°	4748.9	4795.4	5322.6	7260.9	11114.3	18747.3	33230.4	46655.1	58157.1	58067.9	42670.0
67.5°	3070.3	3143.9	3384.3	4349.6	6663.9	13021.6	26570.4	42138.9	57056.1	57025.1	41107.7
70°	2593.5	2616.7	2725.3	2934.6	3872.7	7896.7	18658.2	34940.0	52873.2	52873.2	37351.2
72.5°	2318.2	2349.2	2388.0	2453.9	2764.0	4473.6	11133.7	27198.4	45651.1	45953.5	31792.2
75°	2105.0	2097.3	2120.5	2132.1	2357.0	2923.0	5756.8	20115.8	35316.0	34711.3	23023.3
77.5°	1802.6	1814.3	1802.6	1853.0	2081.7	2225.2	2923.0	13498.4	21402.8	20619.7	11556.2
80°	1480.9	1500.3	1519.6	1550.6	1779.4	1690.2	1756.1	6152.2	7916.1	7749.4	3570.4
82.5°	1112.6	1139.7	1170.7	1244.4	1399.5	1116.5	1108.7	2628.3	2857.1	2616.7	1314.2
85°	449.7	531.1	802.5	876.1	880.0	612.5	682.3	1097.1	1166.9	1139.7	515.6
87.5°	104.7	124.1	259.7	391.5	360.5	228.7	252.0	356.6	407.0	376.0	174.4
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°	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7	6640.7
2.5°	6772.5	6636.8	6404.2	6225.9	6097.9	5985.5	5915.7	5873.1	5857.6	5853.7	5857.6
5°	7001.2	6760.8	6392.5	6160.0	6032.0	5958.4	5915.7	5911.8	5915.7	5919.6	5908.0
7.5°	7315.2	6970.2	6489.5	6272.4	6175.5	6121.2	6101.8	6094.0	6097.9	6094.0	6094.0
10°	7733.9	7260.9	6679.4	6454.6	6373.2	6311.1	6280.1	6260.7	6245.2	6229.7	6222.0
12.5°	8195.2	7582.7	6884.9	6667.8	6551.5	6454.6	6384.8	6334.4	6299.5	6264.6	6256.9
15°	8710.8	7923.8	7113.6	6811.2	6644.5	6501.1	6380.9	6299.5	6237.5	6187.1	6183.2
17.5°	9203.1	8245.6	7268.7	6877.1	6632.9	6431.3	6272.4	6160.0	6082.4	6016.5	6008.8
20°	9730.3	8551.8	7338.4	6834.5	6516.6	6272.4	6063.0	5927.4	5838.2	5764.5	5752.9
22.5°	10261.4	8811.6	7330.7	6698.8	6315.0	6028.1	5807.2	5663.7	5559.1	5485.4	5458.3
25°	10769.3	9020.9	7233.8	6481.7	6035.9	5737.4	5512.6	5380.7	5287.7	5198.5	5198.5
27.5°	11226.7	9144.9	7051.6	6218.1	5749.0	5435.0	5256.7	5136.5	5051.2	4993.1	4958.2
30°	11676.4	9203.1	6803.5	5884.7	5446.7	5179.2	5035.7	4966.0	4888.4	4822.5	4814.8
32.5°	12079.6	9191.5	6493.3	5559.1	5159.8	4969.8	4911.7	4857.4	4776.0	4683.0	4659.7
35°	12471.1	9113.9	6125.1	5202.4	4919.4	4845.8	4861.3	4783.8	4636.4	4520.1	4500.8
37.5°	12897.5	8974.4	5721.9	4911.7	4717.8	4787.6	4826.4	4655.8	4415.5	4233.3	4190.6
40°	13389.8	8815.4	5303.2	4620.9	4558.9	4733.4	4733.4	4419.3	4089.8	3977.4	3946.4
42.5°	13967.5	8683.6	4954.3	4376.7	4427.1	4601.5	4582.2	4105.3	3969.7	3911.5	3896.0
45°	14882.3	8637.1	4593.8	4163.5	4318.6	4446.5	4287.5	3996.8	3919.3	3872.7	3857.2
47.5°	16328.3	8691.4	4275.9	4004.5	4194.5	4291.4	3958.0	3923.1	3868.9	3803.0	3795.2
50°	17669.6	8641.0	4051.1	3915.4	4086.0	4105.3	3822.3	3834.0	3803.0	3729.3	3713.8
52.5°	18766.7	8482.0	3907.6	3868.9	3992.9	3779.7	3694.4	3737.1	3725.4	3632.4	3616.9
55°	19972.4	8385.1	3837.9	3868.9	3930.9	3496.7	3574.2	3636.3	3620.8	3554.9	3551.0
57.5°	21433.8	8404.5	3787.5	3880.5	3868.9	3353.3	3454.1	3527.7	3523.8	3504.5	3504.5
60°	22930.2	8412.3	3709.9	3876.6	3795.2	3240.9	3330.0	3434.7	3442.4	3454.1	3454.1
62.5°	23426.4	8075.0	3558.7	3806.8	3632.4	3132.3	3213.7	3357.2	3349.4	3380.4	3384.3
65°	22499.9	7140.7	3333.9	3647.9	3423.1	3054.8	3124.6	3256.4	3213.7	3295.1	3310.6
67.5°	20480.2	5908.0	2985.0	3361.0	3190.5	2973.4	3066.4	3116.8	3039.3	3198.2	3202.1
70°	17700.7	4613.2	2543.1	2954.0	2926.8	2888.1	3019.9	2942.4	2833.8	3027.6	2988.9
72.5°	14800.9	3523.8	2031.3	2415.1	2574.1	2760.2	2938.5	2717.5	2566.3	2624.5	2554.7
75°	11118.1	2605.1	1632.1	1891.8	2143.8	2578.0	2864.8	2446.1	2213.6	2159.3	2143.8
77.5°	5667.6	1701.8	1221.1	1415.0	1608.8	2329.8	2764.0	2128.3	1833.6	1748.4	1709.6
80°	2023.6	1058.3	860.6	976.9	1085.5	2004.2	2415.1	1760.0	1422.7	1407.2	1422.7
82.5°	938.1	682.3	577.6	639.6	643.5	1337.4	1841.4	1314.2	1081.6	1643.7	1387.8
85°	403.2	341.1	325.6	317.9	294.6	597.0	1035.1	705.5	1101.0	492.3	453.6
87.5°	120.2	135.7	120.2	89.2	65.9	65.9	104.7	38.8	27.1	19.4	19.4
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)