

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: P459401

Luminaire Tested: **GALN-SA8C-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53186 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

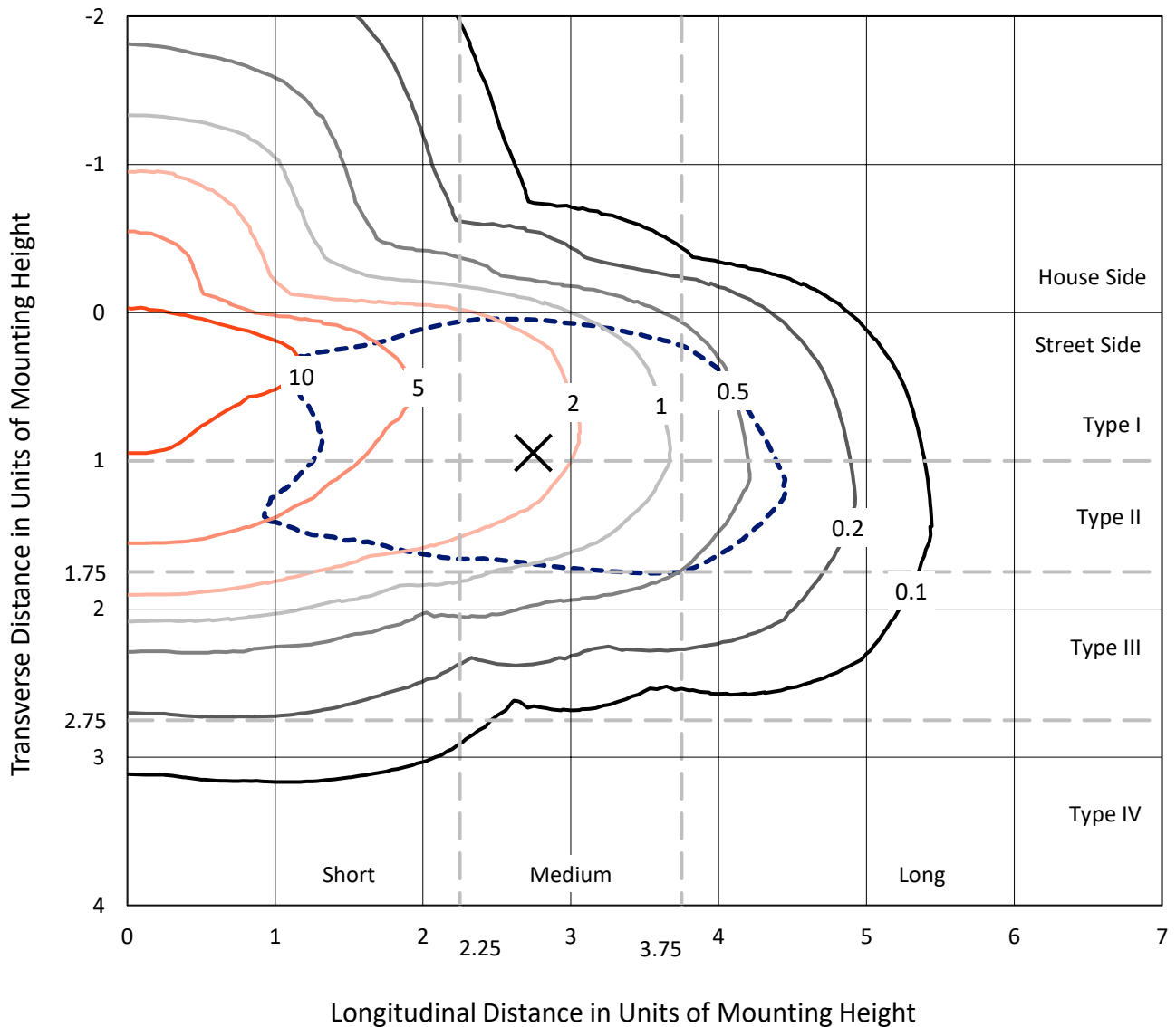
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

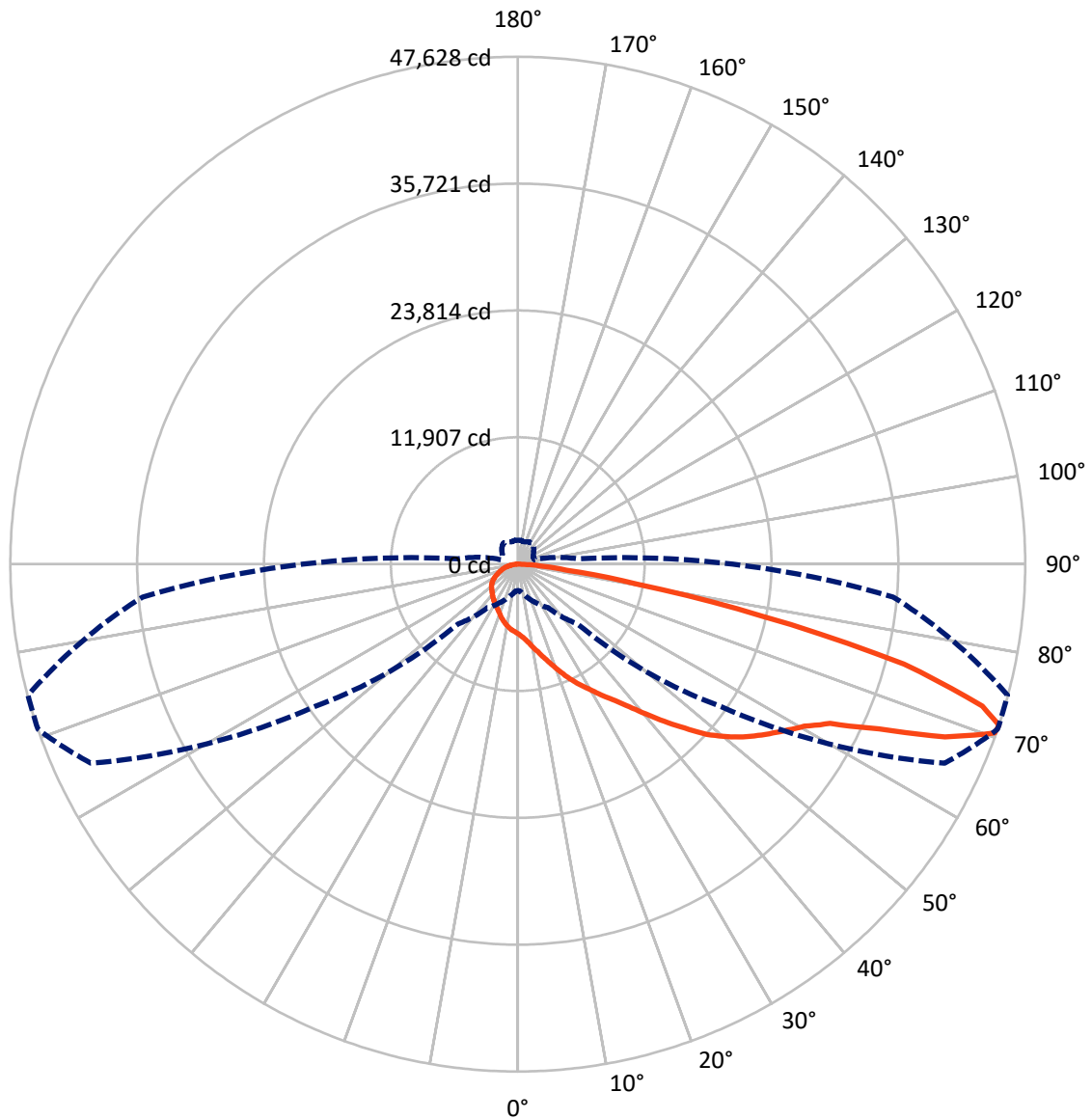
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9565.4	0.0	9565.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	43620.6	0.0	43620.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	53186.0	0.0	53186.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.4	1.2
10°-20°	2129.4	4.0
20°-30°	3721.2	7.0
30°-40°	5534.9	10.4
40°-50°	8154.9	15.3
50°-60°	11417.0	21.5
60°-70°	12769.6	24.0
70°-80°	7800.2	14.7
80°-90°	1003.4	1.9
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°	53186.0	100.0
0°-180°	53186.0	100.0



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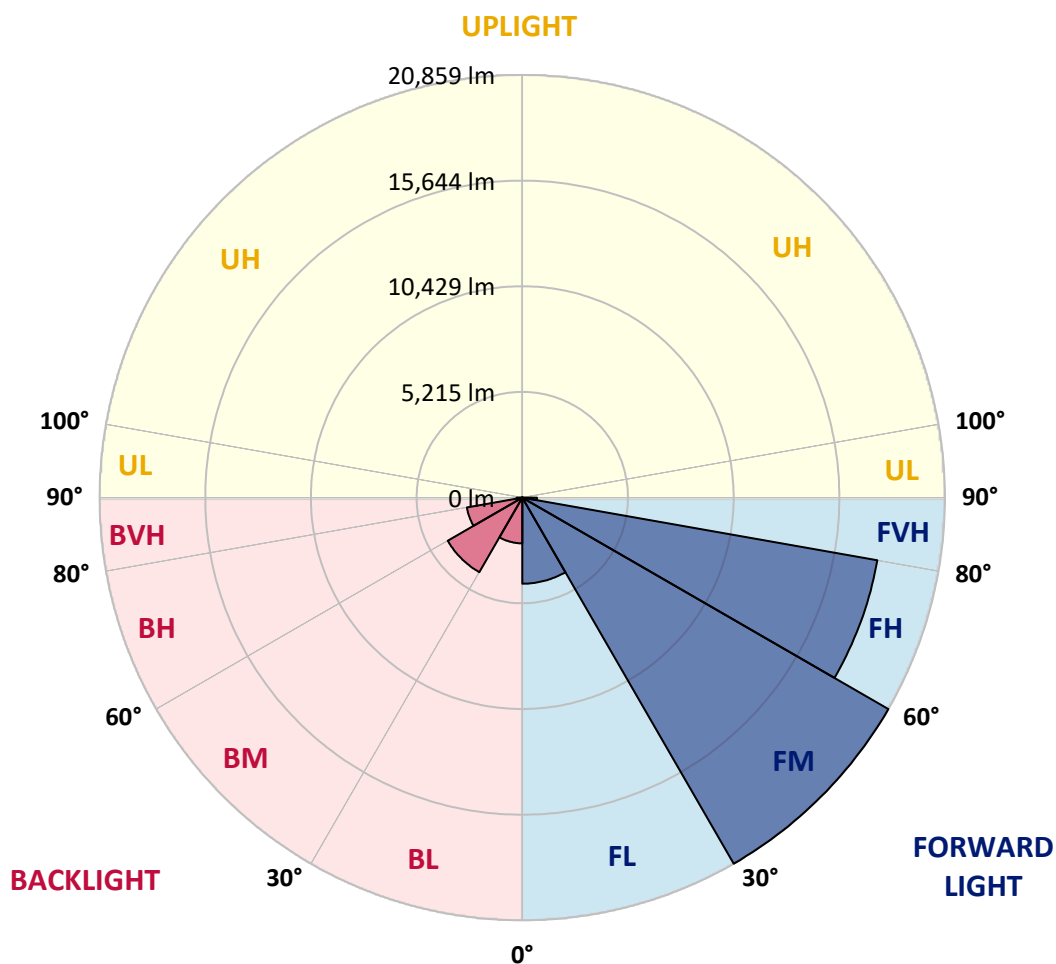
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4249.6	8.0			
FM	(30°-60°)	20858.5	39.2			
FH	(60°-80°)	17790.6	33.4			G5
FVH	(80°-90°)	722.0	1.4			G4/750
BL	(0°-30°)	2256.4	4.2	B3/2500		
BM	(30°-60°)	4248.3	8.0	B3/5000		
BH	(60°-80°)	2779.2	5.2	B4/5000		G4/5000
BVH	(80°-90°)	281.4	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5
2.5°	7246.6	7211.6	7214.5	7164.8	7100.5	7030.3	6930.9	6843.2	6773.1	6732.2	6612.3
5°	8030.1	7995.0	7951.1	7843.0	7796.2	7623.7	7404.5	7205.7	7053.7	6968.9	6729.2
7.5°	8664.4	8655.6	8643.9	8582.6	8462.7	8223.0	8035.9	7691.0	7465.9	7305.1	6895.9
10°	9056.1	9070.7	9079.5	9091.2	9041.5	8915.8	8658.6	8223.0	7936.5	7731.9	7112.2
12.5°	9254.9	9269.5	9319.2	9427.4	9494.6	9480.0	9269.5	8842.7	8448.1	8179.1	7343.1
15°	9377.7	9401.0	9488.7	9632.0	9857.1	10000.3	9898.0	9503.4	9070.7	8752.1	7617.9
17.5°	9512.1	9538.4	9634.9	9839.5	10134.8	10444.6	10555.7	10216.6	9746.0	9366.0	7924.8
20°	9588.1	9623.2	9760.6	10029.5	10374.5	10824.7	11193.0	11014.7	10500.2	10079.2	8278.5
22.5°	9710.9	9740.1	9857.1	10143.5	10555.7	11119.9	11830.2	11792.2	11339.1	10795.4	8667.3
25°	10044.2	10090.9	10149.4	10321.9	10719.4	11421.0	12359.3	12622.4	12151.8	11543.8	9024.0
27.5°	10672.6	10710.6	10707.7	10731.1	10956.2	11681.2	12818.3	13443.9	12958.6	12300.9	9368.9
30°	11388.8	11403.5	11415.1	11362.5	11412.2	11947.2	13239.2	14256.5	13771.3	13078.5	9670.0
32.5°	12260.0	12289.2	12189.8	12055.3	12014.4	12341.8	13587.1	15069.2	14733.0	13867.7	9968.2
35°	13288.9	13364.9	13163.2	12926.4	12759.8	12908.9	14054.8	15899.4	15718.1	14876.2	10362.8
37.5°	14464.1	14557.6	14370.5	13905.7	13668.9	13709.9	14665.8	16925.4	16963.4	16025.0	10950.4
40°	15425.8	15548.6	15554.4	14896.7	14537.1	14583.9	15440.4	18030.4	18465.9	17445.7	11643.2
42.5°	16060.1	16180.0	16305.7	15919.8	15542.7	15808.7	16343.7	19228.9	20155.5	19170.4	12610.7
45°	16755.9	16864.0	16934.2	16758.8	16548.3	17238.2	17434.0	20503.4	21956.2	21096.8	13668.9
47.5°	17562.7	17682.5	17749.7	17583.1	17504.2	18492.2	18609.2	21693.2	23879.7	22967.7	14838.2
50°	18638.4	18729.0	18693.9	18588.7	18571.2	19454.0	19737.5	22806.9	25467.0	24981.8	16051.4
52.5°	19977.2	20085.4	20123.4	19974.3	19907.1	20140.9	20646.6	23821.3	26911.1	26712.3	17346.3
55°	20787.0	20959.4	21538.2	21772.1	21932.9	21029.6	21625.9	24940.8	28206.1	28536.4	18737.8
57.5°	19749.2	19971.4	21266.4	22435.7	23947.0	23251.2	23014.4	26110.1	29501.1	30304.9	20404.0
60°	17217.7	17267.4	18936.6	21091.0	24131.1	26107.2	25911.4	27969.3	30904.2	32088.1	22599.4
62.5°	11944.2	12049.5	14022.6	17460.3	21856.9	27136.2	30839.9	31179.0	32915.4	34757.0	25817.8
65°	6159.2	6021.8	7819.6	10973.7	16478.1	24692.4	34833.0	37080.9	37276.8	38931.3	30348.8
67.5°	3791.4	3852.8	4694.7	6407.7	9743.1	17945.6	34415.0	44292.5	43260.6	44055.7	34555.3
70°	2847.2	2923.2	3502.0	4384.8	5940.0	10260.5	27677.0	46040.6	47481.7	47277.1	35835.7
71°	2476.0	2554.9	3157.1	3990.2	4989.9	7919.0	23318.5	44210.7	47627.9	47592.8	35353.3
72.5°	2110.6	2160.3	2630.9	3379.2	4206.5	5551.2	17518.8	39650.4	45596.3	46762.6	33631.6
75°	1657.5	1695.5	1905.9	2578.3	3312.0	3408.5	9401.0	29726.1	37449.3	39670.9	27998.5
77.5°	1350.5	1376.8	1485.0	1914.7	2554.9	2414.6	4931.5	19348.7	23461.7	25698.0	16492.8
80°	1072.8	1102.1	1166.4	1297.9	1914.7	1721.8	2353.2	9804.5	11333.3	11309.9	6583.1
82.5°	833.1	841.9	917.9	953.0	1309.6	1221.9	1274.5	4151.0	4598.2	4750.2	2376.6
85°	526.2	552.5	812.7	730.8	783.4	716.2	628.5	1648.7	2031.6	2002.4	950.0
87.5°	160.8	169.5	274.8	309.9	347.9	312.8	230.9	485.3	593.4	643.1	236.8
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°	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5
2.5°	6565.5	6533.4	6419.4	6325.8	6238.1	6141.7	6059.8	6036.4	6016.0	6007.2	6004.3
5°	6626.9	6530.5	6305.4	6121.2	5975.0	5840.6	5755.8	5717.8	5679.8	5679.8	5691.5
7.5°	6714.6	6539.2	6191.4	5916.6	5732.4	5606.7	5545.3	5539.5	5548.3	5557.0	5559.9
10°	6811.1	6533.4	6024.7	5682.7	5519.0	5460.6	5463.5	5513.2	5559.9	5595.0	5600.9
12.5°	6904.6	6498.3	5828.9	5463.5	5358.2	5369.9	5451.8	5562.9	5653.5	5703.2	5706.1
15°	7009.9	6442.8	5592.1	5255.9	5220.9	5311.5	5463.5	5633.0	5770.4	5852.3	5861.0
17.5°	7097.6	6349.2	5343.6	5054.2	5098.1	5264.7	5475.2	5694.4	5861.0	5963.4	5980.9
20°	7196.9	6229.4	5086.4	4861.3	4987.0	5212.1	5451.8	5688.6	5861.0	5960.4	5983.8
22.5°	7275.9	6059.8	4840.8	4703.4	4887.6	5147.8	5372.9	5562.9	5703.2	5755.8	5790.9
25°	7308.0	5846.4	4609.9	4574.8	4808.7	5042.5	5194.5	5302.7	5346.6	5340.7	5355.3
27.5°	7290.5	5600.9	4411.1	4472.5	4709.3	4878.8	4954.8	4946.1	4867.1	4794.1	4829.1
30°	7217.4	5308.6	4244.5	4367.3	4580.7	4674.2	4662.5	4548.5	4399.4	4262.0	4270.8
32.5°	7085.9	4992.8	4089.6	4247.4	4399.4	4440.4	4361.4	4212.3	3999.0	3820.6	3794.3
35°	6974.8	4691.8	3952.2	4110.0	4218.2	4197.7	4121.7	3928.8	3735.9	3578.0	3551.7
37.5°	6957.2	4434.5	3820.6	3955.1	4016.5	3987.3	3893.7	3730.0	3659.9	3540.0	3525.4
40°	7050.8	4253.3	3686.2	3791.4	3820.6	3797.3	3694.9	3601.4	3665.7	3636.5	3636.5
42.5°	7305.1	4156.8	3566.3	3627.7	3651.1	3668.6	3595.6	3516.6	3595.6	3461.1	3417.2
45°	7708.5	4159.7	3458.2	3466.9	3537.1	3598.5	3548.8	3431.9	3390.9	3122.0	3069.4
47.5°	8301.9	4259.1	3370.5	3314.9	3440.6	3542.9	3472.8	3303.2	3122.0	2943.7	2911.5
50°	8994.7	4437.4	3291.5	3157.1	3312.0	3472.8	3420.2	3221.4	3034.3	2926.1	2905.7
52.5°	9763.5	4662.5	3195.1	2981.7	3154.1	3440.6	3431.9	3209.7	2952.4	2879.4	2861.8
55°	10713.6	4884.7	3075.2	2777.1	3013.8	3414.3	3399.7	3113.2	2934.9	2882.3	2876.4
57.5°	11818.5	5206.2	2902.7	2569.5	2853.1	3306.2	3274.0	3054.8	2876.4	2838.4	2835.5
60°	13598.8	5706.1	2657.2	2379.5	2689.4	3116.1	3157.1	2955.4	2782.9	2774.1	2771.2
62.5°	15940.3	6407.7	2402.9	2183.6	2499.3	2870.6	2987.5	2820.9	2683.5	2727.4	2733.2
65°	19173.3	6998.2	2139.8	2017.0	2288.9	2633.8	2826.7	2695.2	2572.4	2657.2	2657.2
67.5°	21281.0	7009.9	1900.1	1844.5	2075.5	2435.0	2657.2	2546.1	2429.2	2572.4	2578.3
70°	20842.5	6141.7	1701.3	1663.3	1867.9	2221.6	2470.1	2382.4	2248.0	2376.6	2329.8
71°	20135.1	5659.3	1622.4	1593.2	1786.1	2119.3	2382.4	2309.3	2174.9	2259.6	2233.3
72.5°	19006.7	4913.9	1493.8	1499.6	1663.3	1990.7	2259.6	2183.6	2049.2	2095.9	2087.2
75°	16066.0	4291.3	1277.4	1303.8	1429.5	1771.5	2014.1	1955.6	1818.2	1818.2	1809.5
77.5°	10044.2	2999.2	1061.1	1075.7	1213.1	1517.1	1730.5	1680.8	1549.3	1505.5	1493.8
80°	3747.6	1549.3	830.2	847.7	932.5	1195.6	1432.4	1385.6	1251.1	1201.4	1154.7
82.5°	1417.8	777.6	611.0	596.3	687.0	912.0	1122.5	1067.0	961.7	841.9	806.8
85°	534.9	385.9	374.2	362.5	403.4	540.8	695.7	684.0	572.9	488.2	479.4
87.5°	140.3	125.7	146.2	108.2	114.0	102.3	105.2	43.8	20.5	8.8	5.8
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)