

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: P457317

Luminaire Tested: **GALN-SA8C-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457317
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-SA8C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41385 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

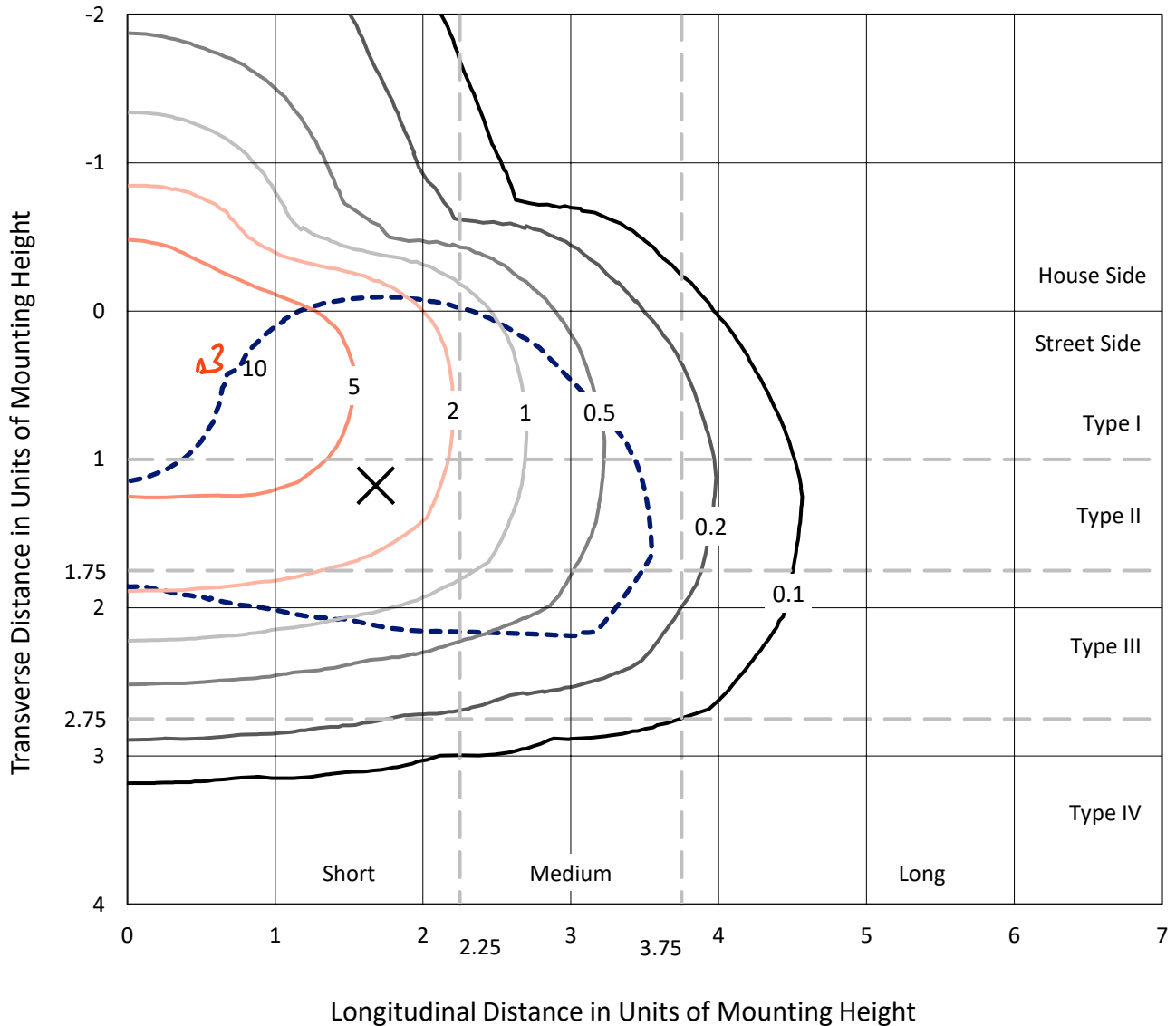
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

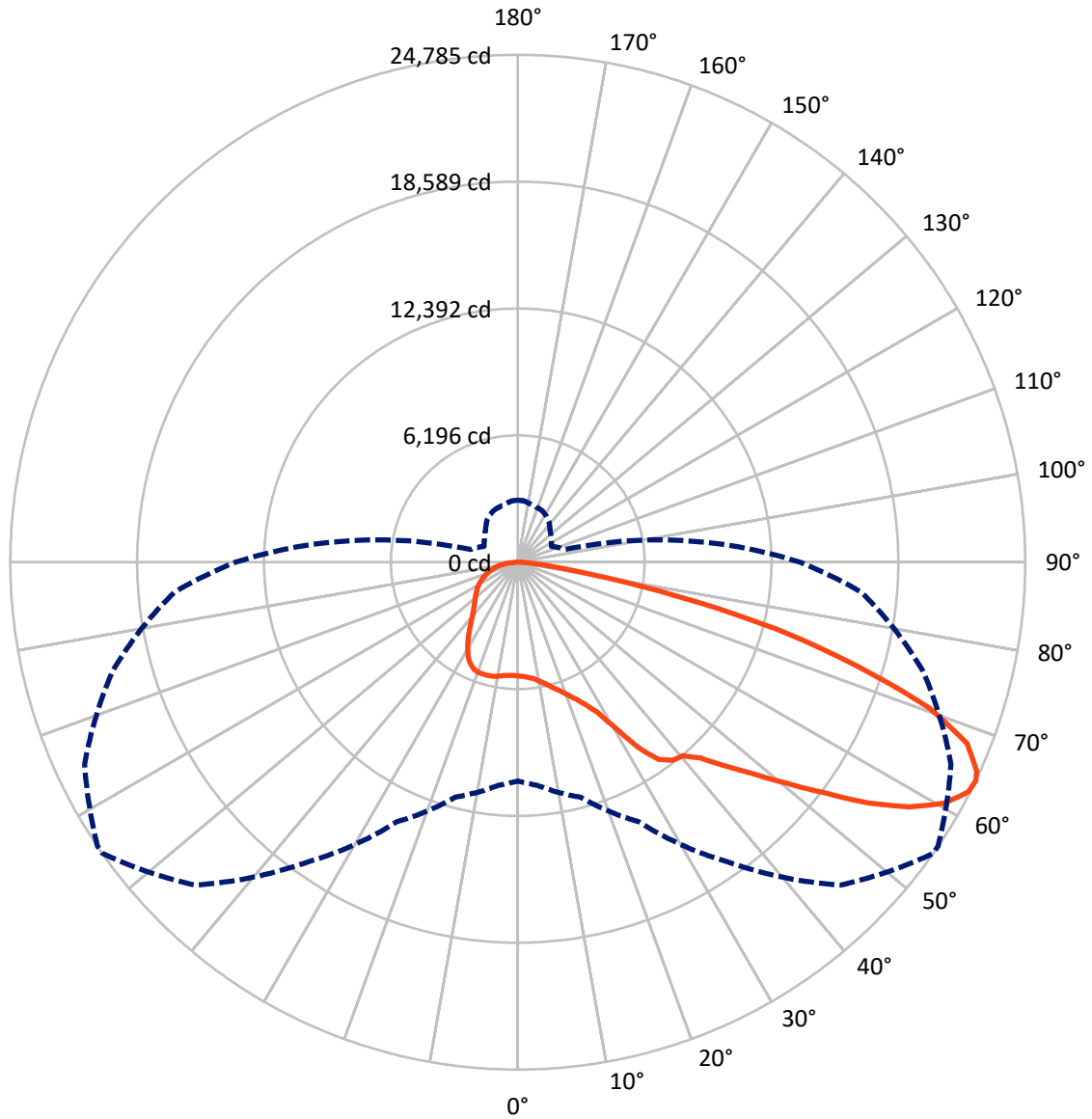
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	10053.2	0.0	10053.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	31331.8	0.0	31331.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	41385.0	0.0	41385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.1	1.3
10°-20°	1704.2	4.1
20°-30°	3034.0	7.3
30°-40°	4668.2	11.3
40°-50°	6617.5	16.0
50°-60°	9578.7	23.1
60°-70°	9912.9	24.0
70°-80°	4642.2	11.2
80°-90°	687.2	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°	41385.0	100.0
0°-180°	41385.0	100.0

Coefficient of Utilization



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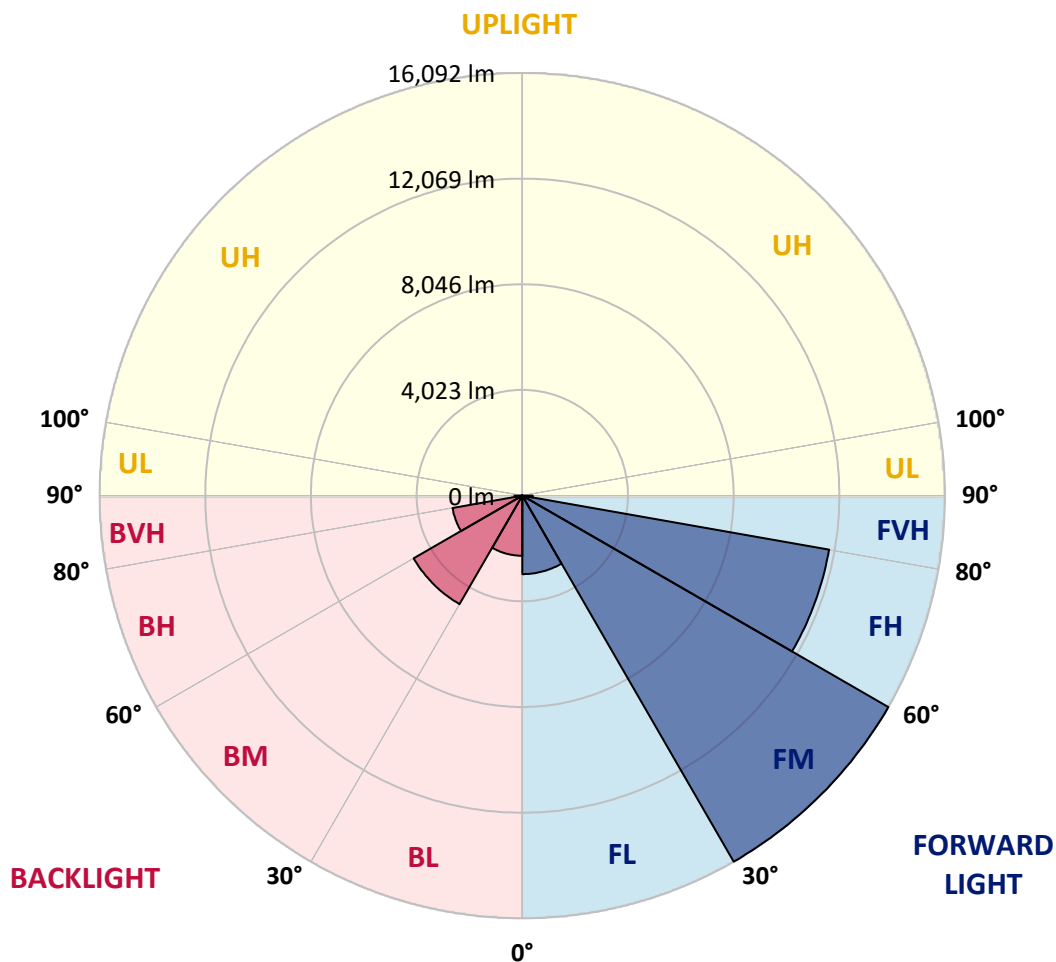
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2988.7	7.2			
FM	(30°-60°)	16091.6	38.9			
FH	(60°-80°)	11858.0	28.7			G4/12000
FVH	(80°-90°)	393.5	1.0			G3/500
BL	(0°-30°)	2289.7	5.5	B3/2500		
BM	(30°-60°)	4772.7	11.5	B3/5000		
BH	(60°-80°)	2697.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	293.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6
2.5°	5614.9	5612.6	5619.5	5612.6	5617.2	5601.1	5594.1	5598.8	5591.8	5580.3	5559.5
5°	5684.1	5681.8	5684.1	5674.9	5679.5	5670.3	5654.1	5658.7	5647.2	5621.8	5591.8
7.5°	5801.8	5792.5	5792.5	5790.2	5781.0	5767.2	5755.6	5751.0	5739.5	5707.2	5661.0
10°	5954.0	5954.0	5956.3	5937.9	5949.4	5924.0	5912.5	5910.2	5871.0	5829.4	5764.8
12.5°	6154.7	6166.2	6159.3	6150.1	6145.5	6136.3	6097.0	6106.3	6062.4	5990.9	5912.5
15°	6403.9	6422.3	6410.8	6406.2	6394.6	6360.0	6343.9	6337.0	6279.3	6175.5	6071.7
17.5°	6733.7	6710.7	6701.4	6689.9	6641.5	6616.1	6588.4	6583.8	6533.0	6410.8	6249.3
20°	7022.1	7054.4	7035.9	7024.4	6976.0	6927.5	6906.7	6899.8	6856.0	6722.2	6463.8
22.5°	7365.8	7372.7	7379.7	7352.0	7328.9	7292.0	7255.1	7243.5	7227.4	7089.0	6772.9
25°	7732.6	7760.3	7737.2	7709.5	7681.9	7679.5	7714.1	7709.5	7702.6	7568.8	7183.6
27.5°	8330.1	8355.5	8362.4	8332.4	8226.3	8235.5	8313.9	8339.3	8445.4	8224.0	7711.8
30°	8666.9	8692.3	8749.9	8863.0	9031.4	9179.0	9368.2	9425.8	9527.3	9109.8	8339.3
32.5°	8874.5	8883.7	8987.5	9197.5	9702.7	10254.0	10768.4	10789.2	10853.8	10267.8	8913.7
35°	9202.1	9209.0	9292.0	9522.7	10115.6	11033.7	11829.6	11855.0	11801.9	10627.7	9181.3
37.5°	9605.8	9624.2	9677.3	9868.8	10577.0	11686.6	12270.2	12251.7	11781.1	10913.8	9654.2
40°	10194.0	10194.0	10131.7	10390.1	11063.7	12060.3	12424.8	12392.5	12267.9	11741.9	10374.0
42.5°	10713.1	10703.8	10851.5	11026.8	11672.7	12637.0	13073.0	13126.0	13331.4	12782.3	11192.9
45°	11389.0	11430.5	11513.6	11831.9	12708.5	13622.0	14184.9	14235.6	14526.3	14007.3	12150.2
47.5°	12071.8	12085.7	12346.3	12770.8	13991.1	14957.7	15419.1	15502.1	15767.4	15439.8	13181.4
50°	12556.3	12687.7	13105.3	13774.3	15313.0	16586.3	16946.2	17045.4	17513.7	16999.3	14383.3
52.5°	13068.4	13197.6	13707.4	14727.0	16830.9	18251.9	18694.8	18761.7	19248.5	18577.2	15612.8
55°	13506.7	13626.6	14205.7	15571.3	18039.7	19952.1	20754.8	20676.4	20909.4	19792.9	16561.0
57.5°	13578.2	13675.1	14404.0	16111.1	18948.6	21410.0	22561.1	22607.3	22337.3	20701.8	17343.0
60°	13024.5	13222.9	14060.3	16053.5	19356.9	22425.0	23908.3	23940.6	23174.7	21167.8	17654.4
62.5°	12044.1	12023.4	13036.1	15126.1	18784.8	22655.7	24701.9	24667.3	23502.3	20944.0	17352.2
64°	10690.0	10939.1	11885.0	13986.5	17862.0	22300.4	24784.9	24766.5	23345.4	20478.0	16837.8
65°	9864.1	9850.3	10784.6	13054.5	16943.9	21765.2	24637.3	24611.9	23017.9	20060.5	16438.7
67.5°	7121.3	7153.6	8076.3	10074.1	13774.3	19672.9	23675.3	23580.7	21726.0	18676.4	14920.8
70°	4313.8	4332.3	5056.6	6683.0	9887.2	15903.5	21340.8	21345.4	19749.0	16609.4	12699.3
72.5°	2272.3	2320.7	2611.4	3794.8	6004.8	11158.3	17313.0	17723.6	16955.4	14175.7	10032.5
75°	1264.2	1271.1	1476.4	1870.9	3063.5	6244.7	13013.0	13130.7	13423.6	11409.7	7418.9
77.5°	964.3	978.1	1042.7	1208.8	1667.9	2895.1	7875.6	8466.2	9460.4	8044.0	4233.1
80°	782.0	795.9	851.2	950.4	1109.6	1372.6	3658.7	3977.0	5063.6	3571.0	1651.7
82.5°	609.0	599.8	671.3	735.9	807.4	812.0	1501.8	1660.9	2062.3	1536.4	715.1
85°	452.1	452.1	509.8	496.0	521.4	475.2	662.1	731.3	825.9	652.8	332.2
87.5°	179.9	198.4	334.5	299.9	233.0	186.9	244.5	258.4	286.1	256.1	138.4
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°	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6	5552.6
2.5°	5561.8	5568.8	5552.6	5541.1	5536.5	5529.5	5522.6	5524.9	5534.2	5543.4	5541.1
5°	5589.5	5591.8	5564.2	5550.3	5541.1	5531.9	5531.9	5538.8	5557.2	5571.1	5571.1
7.5°	5658.7	5658.7	5619.5	5594.1	5580.3	5564.2	5559.5	5561.8	5575.7	5594.1	5596.4
10°	5767.2	5757.9	5707.2	5668.0	5642.6	5603.4	5568.8	5550.3	5557.2	5568.8	5568.8
12.5°	5898.6	5873.3	5808.7	5755.6	5693.3	5619.5	5548.0	5511.1	5508.8	5520.3	5515.7
15°	6039.4	6011.7	5921.7	5824.8	5716.4	5608.0	5522.6	5469.6	5428.0	5416.5	5441.9
17.5°	6203.2	6145.5	6020.9	5887.1	5725.6	5584.9	5451.1	5342.7	5268.9	5248.1	5255.0
20°	6401.5	6325.4	6157.0	5947.1	5718.7	5501.9	5294.2	5148.9	5029.0	4992.1	4996.7
22.5°	6676.1	6544.6	6297.7	5977.1	5661.0	5345.0	5056.6	4867.5	4722.1	4664.5	4699.1
25°	6987.5	6844.5	6431.5	5970.2	5511.1	5093.6	4775.2	4528.4	4396.9	4311.5	4330.0
27.5°	7416.6	7162.8	6574.6	5907.9	5296.6	4786.7	4417.6	4184.6	4064.7	4020.9	4041.6
30°	7965.6	7575.7	6729.1	5739.5	4957.4	4399.2	4057.8	3905.5	3834.0	3778.6	3797.1
32.5°	8362.4	7866.4	6763.7	5455.7	4590.7	4046.2	3813.2	3700.2	3621.8	3568.7	3580.3
35°	8646.1	8113.2	6747.6	5107.4	4207.7	3755.6	3619.5	3527.2	3400.3	3285.0	3264.2
37.5°	9026.8	8422.4	6629.9	4726.8	3829.4	3559.5	3462.6	3291.9	3109.7	2955.1	2948.2
40°	9610.4	8784.5	6378.5	4279.2	3506.4	3414.2	3296.5	3075.0	2879.0	2754.4	2745.2
42.5°	10212.5	9119.0	6037.1	3808.6	3241.1	3261.9	3118.9	2899.7	2779.8	2699.0	2689.8
45°	10948.4	9481.2	5668.0	3400.3	3045.1	3118.9	2964.3	2837.4	2765.9	2712.9	2699.0
47.5°	11744.2	9852.6	5252.7	3033.5	2879.0	2987.4	2899.7	2842.1	2802.8	2765.9	2749.8
50°	12602.4	10267.8	4862.9	2738.2	2729.0	2851.3	2892.8	2872.0	2849.0	2837.4	2823.6
52.5°	13543.6	10692.3	4535.3	2530.6	2597.5	2754.4	2895.1	2911.3	2911.3	2904.3	2895.1
55°	14180.3	10987.6	4203.1	2362.2	2463.7	2676.0	2890.5	2952.8	2975.9	2966.6	2957.4
57.5°	14650.9	11149.1	3785.6	2216.9	2350.7	2599.8	2865.1	2957.4	2980.5	2992.0	2987.4
60°	14747.8	10999.1	3238.8	2064.6	2228.4	2489.1	2772.8	2888.2	2918.2	2989.7	2996.6
62.5°	14311.8	10537.7	2694.4	1914.7	2078.5	2320.7	2648.3	2809.8	2869.7	2980.5	2992.0
64°	13776.6	10021.0	2392.2	1820.1	1981.6	2226.1	2586.0	2789.0	2867.4	3015.1	3024.3
65°	13384.4	9645.0	2203.1	1760.1	1919.3	2163.8	2551.4	2795.9	2888.2	3068.1	3082.0
67.5°	11940.3	8350.8	1822.4	1619.4	1771.7	2057.7	2558.3	2853.6	2883.6	3088.9	3086.6
70°	9880.3	6648.4	1527.1	1490.2	1628.6	1972.4	2530.6	2761.3	2763.6	2899.7	2867.4
72.5°	7398.1	4913.6	1324.1	1356.4	1469.5	1769.4	2389.9	2636.7	2597.5	2616.0	2583.7
75°	5082.0	3250.4	1139.6	1213.4	1303.4	1564.1	2191.5	2394.5	2332.2	2309.2	2286.1
77.5°	2712.9	1797.0	948.1	1072.7	1132.7	1351.8	1912.4	2108.5	2043.9	1953.9	1923.9
80°	1098.1	846.6	763.6	888.1	922.7	1088.8	1591.7	1714.0	1665.6	1508.7	1457.9
82.5°	551.3	507.5	599.8	699.0	701.3	777.4	1183.4	1298.8	1190.3	998.9	955.0
85°	288.4	297.6	412.9	491.4	433.7	419.8	710.5	786.6	722.0	627.5	565.2
87.5°	103.8	120.0	216.8	214.5	152.3	80.7	156.9	76.1	41.5	25.4	32.3
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)