

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: P458245

Luminaire Tested: **GALN-SA9C-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458245
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-SA9C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 46462 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

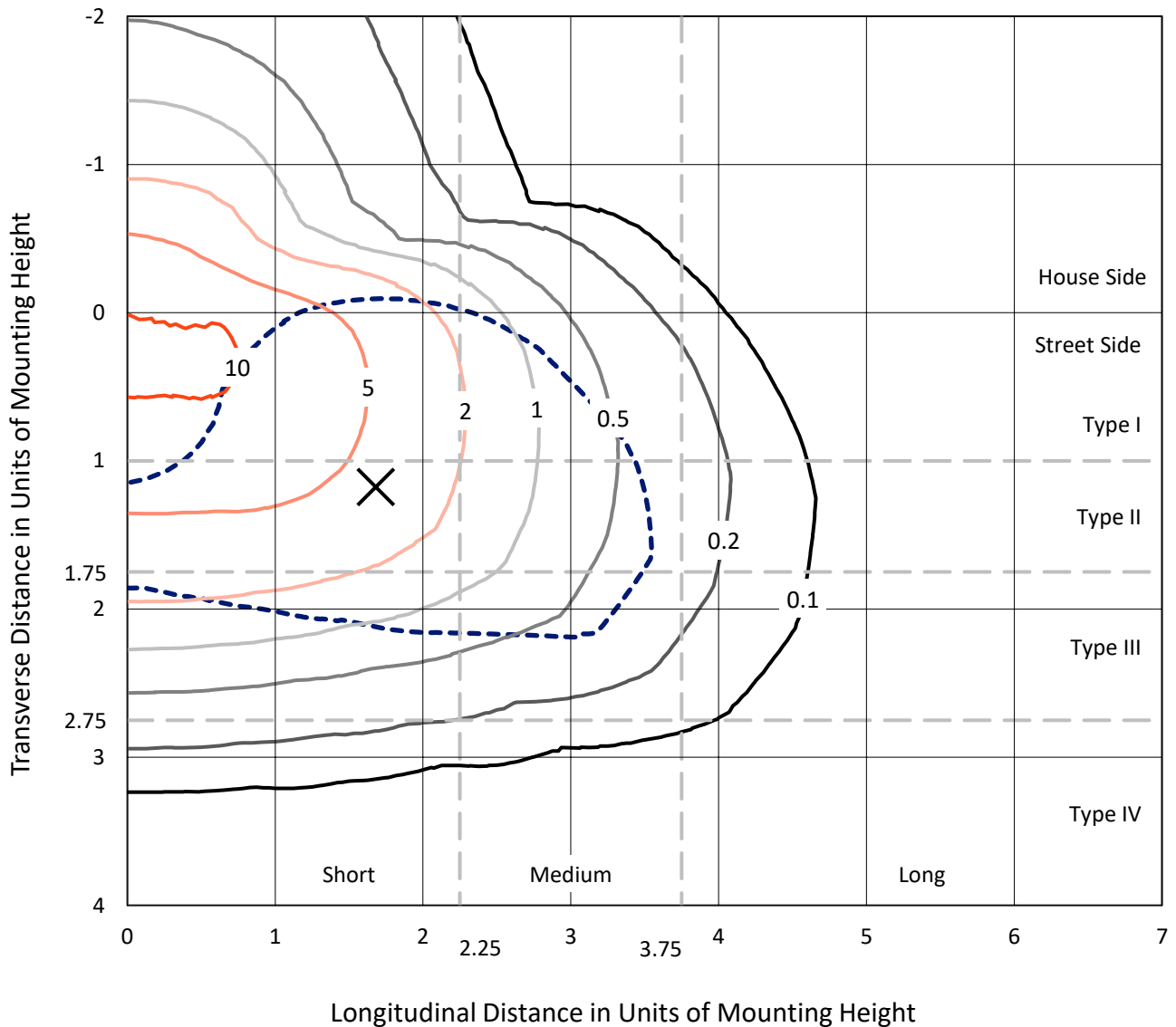
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

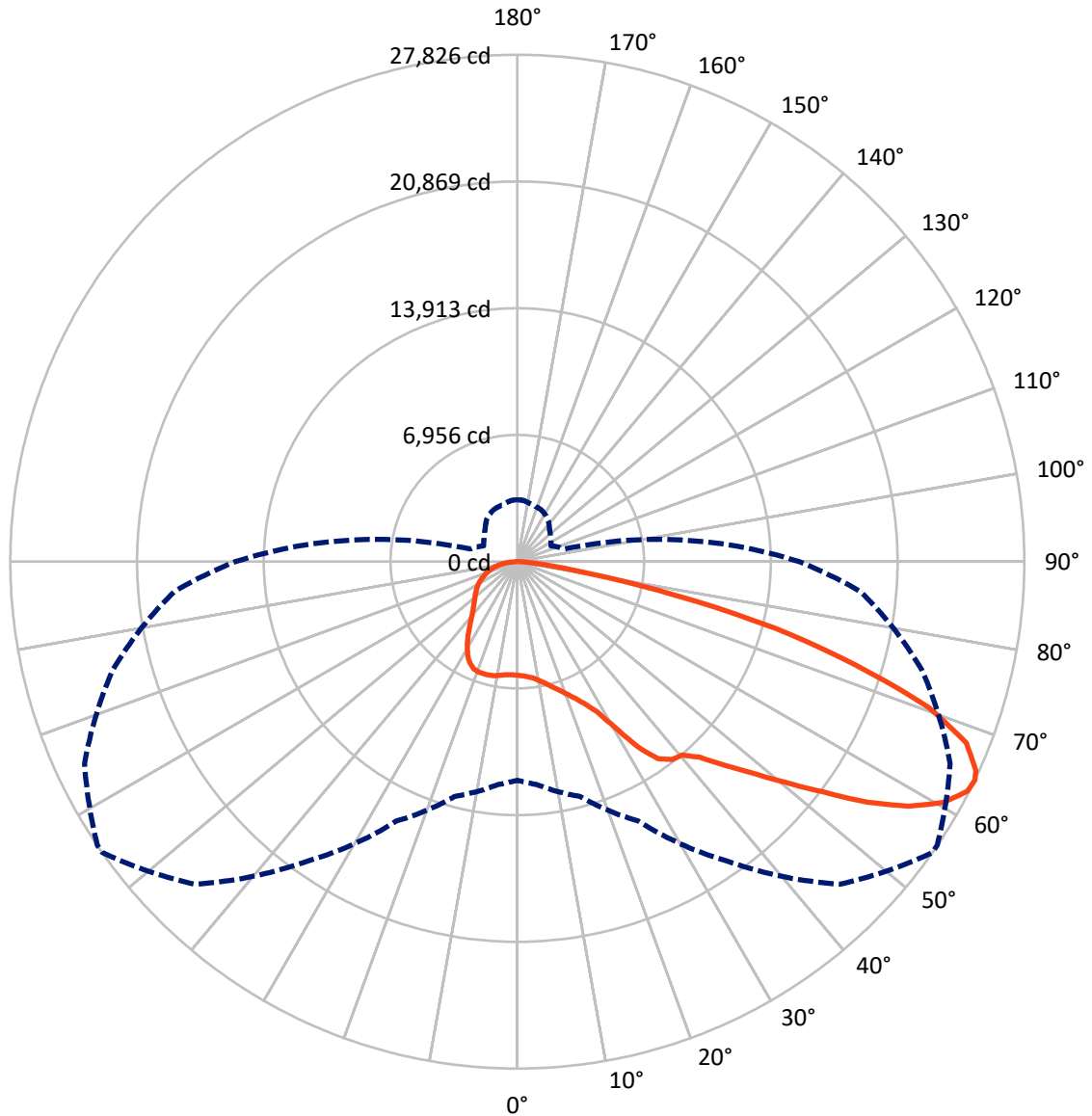
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	11286.5	0.0	11286.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	35175.5	0.0	35175.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	46462.0	0.0	46462.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.4	1.3
10°-20°	1913.3	4.1
20°-30°	3406.2	7.3
30°-40°	5240.8	11.3
40°-50°	7429.3	16.0
50°-60°	10753.7	23.1
60°-70°	11129.0	24.0
70°-80°	5211.7	11.2
80°-90°	771.5	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°	46462.0	100.0
0°-180°	46462.0	100.0



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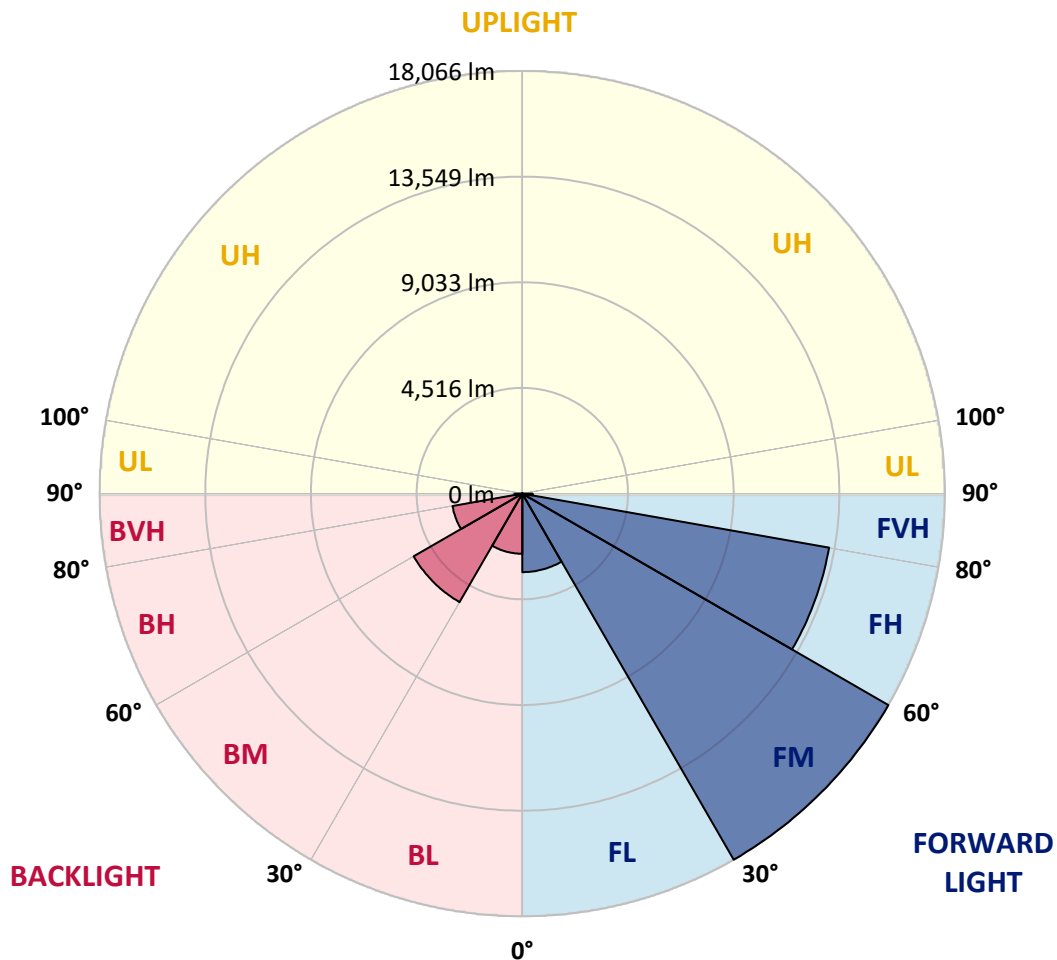
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3355.3	7.2			
FM	(30°-60°)	18065.7	38.9			
FH	(60°-80°)	13312.7	28.7			G5
FVH	(80°-90°)	441.8	1.0			G3/500
BL	(0°-30°)	2570.6	5.5	B4/5000		
BM	(30°-60°)	5358.2	11.5	B4/8500		
BH	(60°-80°)	3028.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	329.8	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8
2.5°	6303.7	6301.1	6308.9	6301.1	6306.3	6288.2	6280.4	6285.6	6277.8	6264.9	6241.6
5°	6381.4	6378.8	6381.4	6371.1	6376.2	6365.9	6347.8	6352.9	6340.0	6311.5	6277.8
7.5°	6513.5	6503.1	6503.1	6500.6	6490.2	6474.7	6461.7	6456.5	6443.6	6407.3	6355.5
10°	6684.4	6684.4	6687.0	6666.3	6679.3	6650.8	6637.8	6635.2	6591.2	6544.6	6472.1
12.5°	6909.8	6922.7	6914.9	6904.6	6899.4	6889.0	6845.0	6855.4	6806.2	6725.9	6637.8
15°	7189.5	7210.2	7197.2	7192.0	7179.1	7140.2	7122.1	7114.4	7049.6	6933.1	6816.5
17.5°	7559.8	7533.9	7523.5	7510.6	7456.2	7427.7	7396.6	7391.5	7334.5	7197.2	7015.9
20°	7883.5	7919.8	7899.1	7886.1	7831.7	7777.4	7754.0	7746.3	7697.1	7546.9	7256.8
22.5°	8269.4	8277.2	8285.0	8253.9	8228.0	8186.6	8145.1	8132.2	8114.0	7958.6	7603.8
25°	8681.2	8712.3	8686.4	8655.3	8624.2	8621.7	8660.5	8655.3	8647.5	8497.3	8064.8
27.5°	9352.0	9380.5	9388.3	9354.6	9235.4	9245.8	9333.9	9362.4	9481.5	9232.9	8657.9
30°	9730.1	9758.6	9823.3	9950.3	10139.3	10305.1	10517.4	10582.2	10696.1	10227.4	9362.4
32.5°	9963.2	9973.6	10090.1	10325.8	10893.0	11511.9	12089.5	12112.8	12185.3	11527.5	10007.2
35°	10331.0	10338.7	10432.0	10691.0	11356.5	12387.3	13280.8	13309.3	13249.7	11931.5	10307.7
37.5°	10784.2	10804.9	10864.5	11079.4	11874.5	13120.2	13775.5	13754.8	13226.4	12252.6	10838.6
40°	11444.6	11444.6	11374.7	11664.7	12421.0	13539.8	13949.0	13912.7	13772.9	13182.4	11646.6
42.5°	12027.3	12017.0	12182.7	12379.5	13104.7	14187.3	14676.7	14736.3	14966.8	14350.4	12566.0
45°	12786.1	12832.8	12926.0	13283.4	14267.6	15293.1	15925.1	15982.0	16308.4	15725.6	13640.8
47.5°	13552.7	13568.3	13860.9	14337.5	15707.5	16792.7	17310.6	17403.9	17701.7	17333.9	14798.5
50°	14096.6	14244.2	14713.0	15464.1	17191.5	18621.1	19025.1	19136.5	19662.2	19084.7	16147.8
52.5°	14671.6	14816.6	15389.0	16533.7	18895.6	20491.0	20988.2	21063.3	21609.8	20856.2	17528.2
55°	15163.6	15298.3	15948.4	17481.6	20252.7	22399.7	23301.0	23212.9	23474.5	22221.0	18592.6
57.5°	15243.9	15352.7	16171.1	18087.6	21273.1	24036.5	25328.9	25380.6	25077.6	23241.4	19470.6
60°	14622.4	14845.1	15785.2	18022.9	21731.5	25176.0	26841.3	26877.6	26017.8	23764.6	19820.2
62.5°	13521.7	13498.4	14635.3	16981.7	21089.2	25435.0	27732.2	27693.4	26385.5	23513.4	19480.9
64°	12001.4	12281.1	13343.0	15702.3	20053.3	25036.2	27825.5	27804.8	26209.4	22990.2	18903.4
65°	11074.3	11058.7	12107.6	14656.0	19022.5	24435.3	27659.7	27631.2	25841.6	22521.4	18455.4
67.5°	7994.9	8031.2	9067.1	11309.9	15464.1	22086.3	26579.8	26473.6	24391.3	20967.5	16751.2
70°	4843.0	4863.8	5677.0	7502.8	11100.1	17854.5	23958.8	23964.0	22171.8	18647.0	14257.2
72.5°	2551.0	2605.4	2931.7	4260.3	6741.4	12527.2	19436.9	19897.9	19035.5	15914.7	11263.3
75°	1419.2	1427.0	1657.5	2100.4	3439.3	7010.8	14609.4	14741.5	15070.4	12809.5	8329.0
77.5°	1082.6	1098.1	1170.6	1357.1	1872.5	3250.3	8841.8	9504.8	10621.0	9030.8	4752.4
80°	878.0	893.5	955.7	1067.0	1245.7	1541.0	4107.5	4464.9	5684.7	4009.1	1854.3
82.5°	683.7	673.4	753.6	826.2	906.5	911.6	1686.0	1864.7	2315.3	1724.8	802.9
85°	507.6	507.6	572.4	556.8	585.3	533.5	743.3	821.0	927.2	732.9	372.9
87.5°	202.0	222.7	375.5	336.7	261.6	209.8	274.5	290.1	321.1	287.5	155.4
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°	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8
2.5°	6244.2	6251.9	6233.8	6220.8	6215.7	6207.9	6200.1	6202.7	6213.1	6223.4	6220.8
5°	6275.2	6277.8	6246.7	6231.2	6220.8	6210.5	6210.5	6218.3	6239.0	6254.5	6254.5
7.5°	6352.9	6352.9	6308.9	6280.4	6264.9	6246.7	6241.6	6244.2	6259.7	6280.4	6283.0
10°	6474.7	6464.3	6407.3	6363.3	6334.8	6290.8	6251.9	6231.2	6239.0	6251.9	6251.9
12.5°	6622.3	6593.8	6521.3	6461.7	6391.8	6308.9	6228.6	6187.2	6184.6	6197.5	6192.4
15°	6780.3	6749.2	6648.2	6539.4	6417.7	6296.0	6200.1	6140.6	6093.9	6081.0	6109.5
17.5°	6964.1	6899.4	6759.5	6609.3	6428.0	6270.1	6119.8	5998.1	5915.2	5891.9	5899.7
20°	7186.9	7101.4	6912.3	6676.7	6420.3	6176.8	5943.7	5780.6	5645.9	5604.5	5609.6
22.5°	7495.1	7347.4	7070.3	6710.3	6355.5	6000.7	5677.0	5464.6	5301.4	5236.7	5275.5
25°	7844.7	7684.1	7220.5	6702.6	6187.2	5718.4	5361.0	5083.9	4936.3	4840.5	4861.2
27.5°	8326.4	8041.5	7381.1	6632.6	5946.3	5374.0	4959.6	4698.0	4563.3	4514.1	4537.4
30°	8942.8	8505.1	7554.6	6443.6	5565.6	4938.9	4555.6	4384.6	4304.4	4242.2	4262.9
32.5°	9388.3	8831.4	7593.5	6125.0	5153.8	4542.6	4281.0	4154.1	4066.1	4006.5	4019.5
35°	9706.8	9108.5	7575.3	5734.0	4723.9	4216.3	4063.5	3959.9	3817.5	3688.0	3664.7
37.5°	10134.1	9455.6	7443.3	5306.6	4299.2	3996.2	3887.4	3695.7	3491.1	3317.6	3309.8
40°	10789.4	9862.2	7161.0	4804.2	3936.6	3833.0	3700.9	3452.3	3232.1	3092.3	3081.9
42.5°	11465.3	10237.7	6777.7	4275.9	3638.8	3662.1	3501.5	3255.5	3120.8	3030.1	3019.8
45°	12291.5	10644.3	6363.3	3817.5	3418.6	3501.5	3328.0	3185.5	3105.2	3045.7	3030.1
47.5°	13185.0	11061.3	5897.1	3405.7	3232.1	3353.9	3255.5	3190.7	3146.7	3105.2	3087.1
50°	14148.4	11527.5	5459.4	3074.2	3063.8	3201.1	3247.7	3224.4	3198.5	3185.5	3170.0
52.5°	15205.1	12004.0	5091.7	2841.1	2916.2	3092.3	3250.3	3268.4	3268.4	3260.6	3250.3
55°	15919.9	12335.5	4718.7	2652.0	2766.0	3004.2	3245.1	3315.0	3340.9	3330.6	3320.2
57.5°	16448.2	12516.8	4250.0	2488.9	2639.1	2918.8	3216.6	3320.2	3346.1	3359.1	3353.9
60°	16557.0	12348.5	3636.2	2317.9	2501.8	2794.5	3113.0	3242.5	3276.2	3356.5	3364.2
62.5°	16067.5	11830.5	3025.0	2149.6	2333.5	2605.4	2973.2	3154.5	3221.8	3346.1	3359.1
64°	15466.7	11250.4	2685.7	2043.4	2224.7	2499.2	2903.2	3131.1	3219.2	3384.9	3395.3
65°	15026.4	10828.2	2473.3	1976.1	2154.8	2429.3	2864.4	3138.9	3242.5	3444.5	3460.1
67.5°	13405.1	9375.3	2046.0	1818.1	1989.0	2310.2	2872.2	3203.7	3237.3	3467.8	3465.2
70°	11092.4	7464.0	1714.5	1673.1	1828.4	2214.3	2841.1	3100.1	3102.7	3255.5	3219.2
72.5°	8305.7	5516.4	1486.6	1522.8	1649.7	1986.4	2683.1	2960.2	2916.2	2936.9	2900.6
75°	5705.5	3649.1	1279.4	1362.3	1463.3	1755.9	2460.4	2688.3	2618.4	2592.5	2566.6
77.5°	3045.7	2017.5	1064.4	1204.3	1271.6	1517.7	2147.0	2367.1	2294.6	2193.6	2159.9
80°	1232.8	950.5	857.2	997.1	1035.9	1222.4	1787.0	1924.3	1869.9	1693.8	1636.8
82.5°	619.0	569.8	673.4	784.7	787.3	872.8	1328.6	1458.1	1336.4	1121.4	1072.2
85°	323.7	334.1	463.6	551.6	486.9	471.4	797.7	883.1	810.6	704.4	634.5
87.5°	116.5	134.7	243.4	240.9	170.9	90.6	176.1	85.5	46.6	28.5	36.3
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)