

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: P531860

Luminaire Tested: **GALN-SA7A-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22096 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 215
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



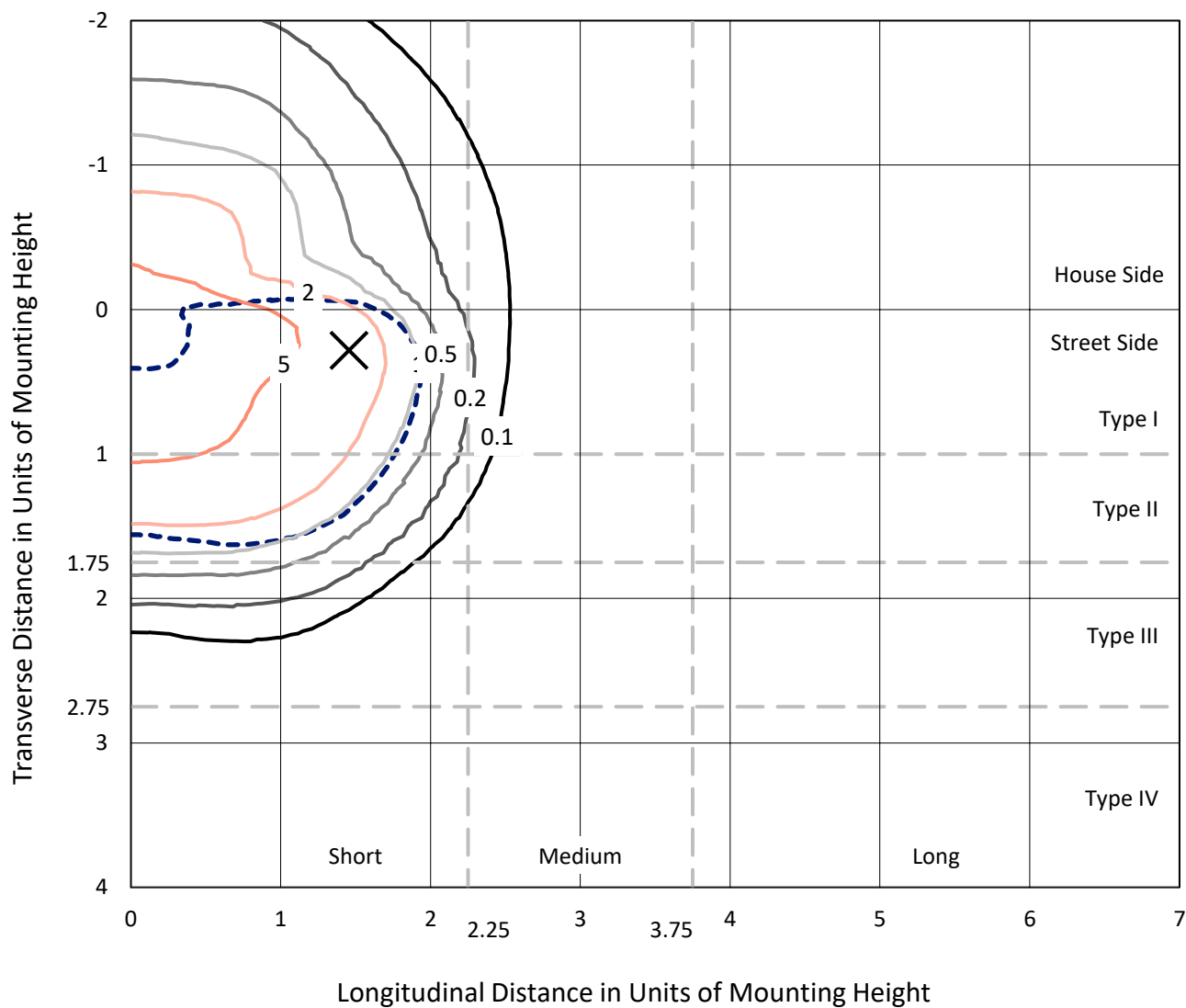
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

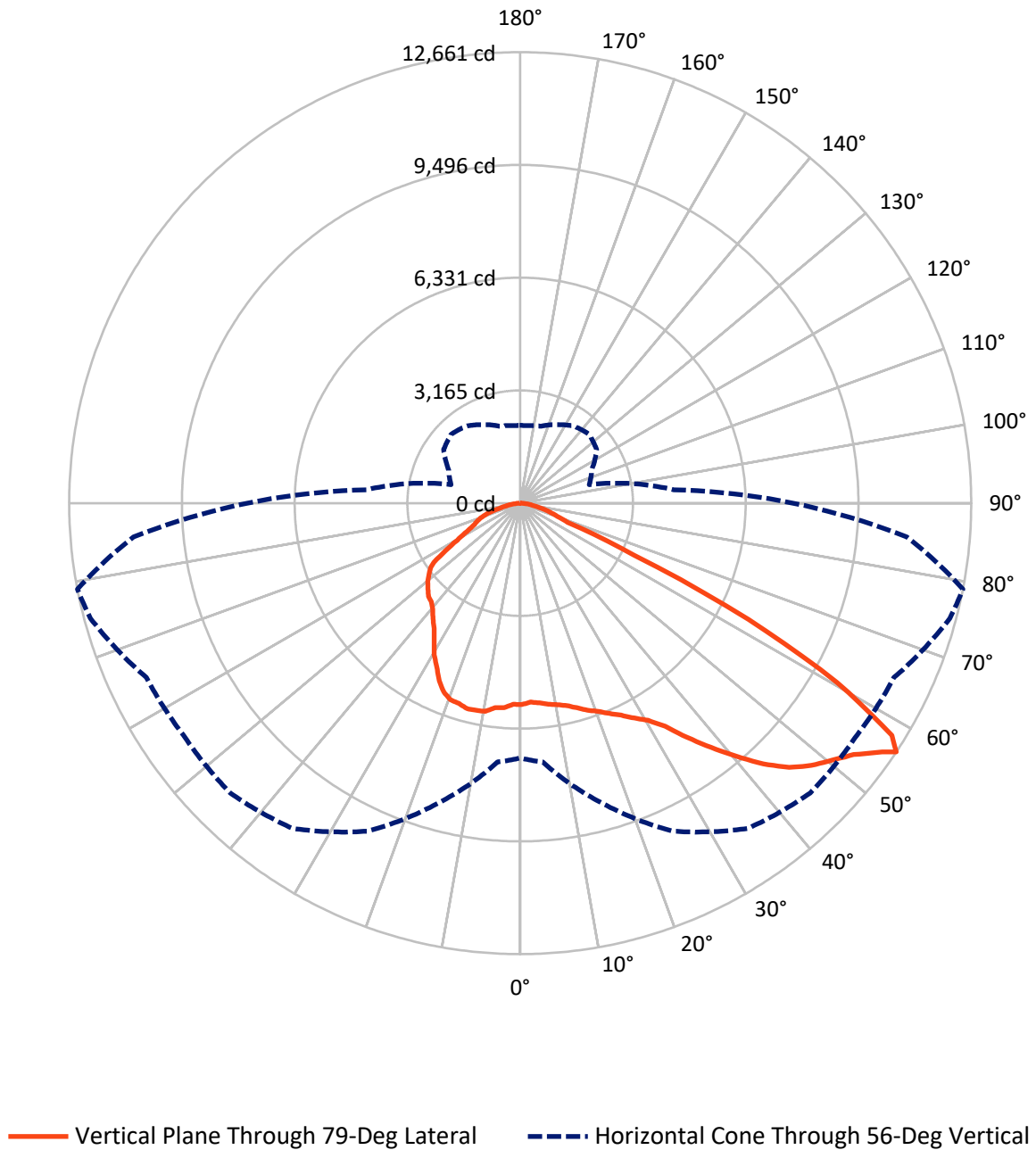
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6525.4	0.0	6525.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	15570.6	0.0	15570.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	22096.0	0.0	22096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.0	2.3
10°-20°	1406.7	6.4
20°-30°	2406.6	10.9
30°-40°	3688.4	16.7
40°-50°	4984.9	22.6
50°-60°	5725.3	25.9
60°-70°	2609.8	11.8
70°-80°	643.4	2.9
80°-90°	116.9	0.5
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°	22096.0	100.0
0°-180°	22096.0	100.0

Coefficient of Utilization



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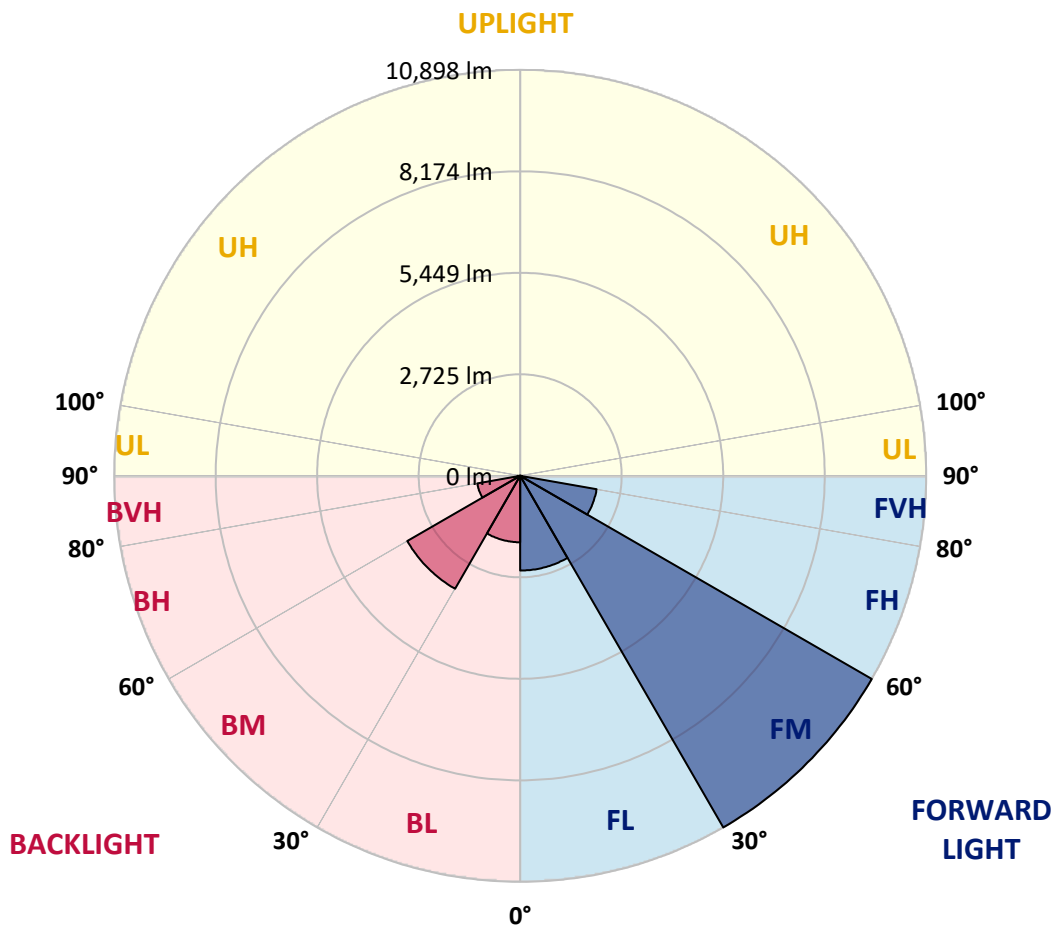
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2542.3	11.5			
FM	(30°-60°)	10898.4	49.3			
FH	(60°-80°)	2083.2	9.4			G2/5000
FVH	(80°-90°)	46.7	0.2			G1/100
BL	(0°-30°)	1785.0	8.1	B3/2500		
BM	(30°-60°)	3500.1	15.8	B3/5000		
BH	(60°-80°)	1170.0	5.3	B3/2500		G3/2500
BVH	(80°-90°)	70.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5
2.5°	5378.2	5364.5	5397.5	5422.3	5452.6	5491.1	5510.4	5521.4	5617.7	5592.9	5667.3
5°	5262.6	5226.9	5251.6	5270.9	5323.2	5370.0	5422.3	5504.9	5592.9	5631.5	5722.3
7.5°	5160.8	5141.5	5136.0	5149.8	5221.4	5281.9	5372.7	5493.9	5637.0	5700.3	5752.6
10°	4992.9	4965.4	5006.7	5097.5	5116.8	5243.4	5348.0	5521.4	5645.2	5755.3	5909.5
12.5°	4918.6	4891.1	4899.3	4951.6	5086.5	5207.6	5331.5	5526.9	5788.4	5832.4	6038.8
15°	5036.9	5009.4	5017.7	5003.9	5133.3	5196.6	5392.0	5637.0	5887.4	5961.8	6182.0
17.5°	5306.7	5309.4	5273.7	5243.4	5213.1	5348.0	5482.8	5703.0	5926.0	6113.1	6278.3
20°	5821.4	5730.6	5659.0	5488.3	5441.6	5499.4	5670.0	5881.9	6082.9	6237.0	6424.2
22.5°	6217.7	6226.0	6124.2	5843.4	5741.6	5766.3	5912.2	6085.6	6305.8	6415.9	6630.6
25°	6793.0	6735.2	6625.1	6402.2	6173.7	6193.0	6300.3	6457.2	6517.8	6594.8	6828.8
27.5°	7318.7	7335.2	7117.8	6908.6	6625.1	6570.1	6762.7	6790.2	6688.4	6834.3	6914.1
30°	7852.7	7838.9	7695.8	7450.8	7172.8	7183.8	7269.2	7134.3	6993.9	7073.7	7128.8
32.5°	8405.9	8249.0	8243.5	8023.3	7811.4	7709.6	7605.0	7671.0	7453.6	7470.1	7417.8
35°	8849.1	8871.1	8744.5	8587.6	8483.0	8304.1	8017.8	8136.2	8094.9	8075.6	7849.9
37.5°	9171.1	9085.8	9149.1	9096.8	8997.7	8774.7	8477.5	8590.3	8609.6	8703.2	8441.7
40°	9435.3	9399.5	9567.4	9595.0	9526.2	9044.5	8510.5	8846.3	9135.3	9339.0	9028.0
42.5°	9561.9	9639.0	9815.2	10027.1	9873.0	9358.3	8681.2	9041.7	9685.8	10007.8	9584.0
45°	9732.6	9633.5	9895.0	10283.1	10285.8	9622.5	8846.3	9306.0	10115.2	10583.1	9963.8
47.5°	9559.2	9608.7	9878.5	10371.2	10497.8	9900.5	9292.2	9680.3	10588.6	11004.2	10316.1
50°	9171.1	9270.2	9762.9	10274.8	10657.4	10195.0	9804.2	10084.9	11026.2	11342.8	10373.9
52.5°	8766.5	8821.5	9592.2	10349.1	10729.0	10574.8	10489.5	10643.6	11560.2	11725.4	10445.5
55°	7665.5	7927.0	9028.0	10316.1	11078.5	11260.2	11194.1	11419.8	12165.7	12330.9	10836.3
56°	7156.3	7293.9	8689.4	10162.0	11147.3	11510.7	11477.6	11579.5	12487.8	12661.2	10896.9
57.5°	6215.0	6226.0	7409.5	9479.4	10888.6	11585.0	11551.9	11631.8	12424.5	12306.1	10365.7
60°	3889.2	4059.8	5042.5	7291.2	9259.2	10748.2	10935.4	10294.1	10475.7	10225.3	8064.6
62.5°	2014.8	1990.0	2642.3	4263.5	6146.2	7695.8	7869.2	7838.9	7558.2	7192.1	5268.2
65°	1004.6	1010.1	1381.7	2111.1	3148.8	4029.6	4514.0	4566.3	3820.4	3514.9	2499.2
67.5°	729.4	756.9	993.6	1290.9	1483.6	1659.7	2034.0	1995.5	1511.1	1436.8	1332.2
70°	567.0	591.8	806.5	985.4	894.5	894.5	974.4	1007.4	1076.2	1106.5	1142.3
72.5°	412.9	432.1	616.5	679.9	586.3	630.3	729.4	806.5	878.0	889.0	930.3
75°	283.5	300.0	404.6	374.3	352.3	434.9	534.0	605.5	657.8	685.4	710.1
77.5°	184.4	189.9	231.2	195.4	225.7	280.7	346.8	407.4	459.7	481.7	487.2
80°	82.6	90.8	99.1	123.9	156.9	200.9	247.7	297.3	330.3	338.5	355.1
82.5°	46.8	46.8	60.6	88.1	115.6	145.9	178.9	214.7	253.2	261.5	258.7
85°	24.8	24.8	35.8	52.3	71.6	85.3	82.6	85.3	90.8	104.6	101.8
87.5°	8.3	8.3	11.0	11.0	13.8	16.5	13.8	19.3	24.8	24.8	24.8
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°	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5
2.5°	5645.2	5670.0	5637.0	5708.5	5708.5	5694.8	5626.0	5648.0	5664.5	5664.5	5678.3
5°	5752.6	5744.3	5766.3	5681.0	5628.7	5609.5	5496.6	5441.6	5394.8	5392.0	5350.7
7.5°	5813.1	5791.1	5782.9	5719.5	5488.3	5348.0	5105.8	4965.4	4935.1	4827.8	4869.0
10°	5909.5	5950.8	5909.5	5565.4	5243.4	4921.3	4684.6	4467.2	4381.9	4313.1	4271.8
12.5°	6107.6	6088.4	5848.9	5383.8	4932.4	4549.8	4197.5	3969.0	3883.7	3823.1	3817.6
15°	6275.5	6179.2	5813.1	5097.5	4447.9	4040.6	3751.6	3589.2	3550.6	3556.1	3580.9
17.5°	6333.3	6267.3	5626.0	4800.2	4087.4	3608.4	3473.6	3448.8	3484.6	3525.9	3536.9
20°	6424.2	6319.6	5548.9	4395.6	3641.5	3338.7	3330.4	3418.5	3484.6	3545.1	3553.4
22.5°	6614.1	6349.9	5298.4	4013.0	3335.9	3258.9	3338.7	3413.0	3514.9	3564.4	3520.4
25°	6669.1	6283.8	4946.1	3553.4	3143.3	3209.3	3294.7	3396.5	3468.1	3495.6	3514.9
27.5°	6715.9	6182.0	4469.9	3247.9	3082.7	3206.6	3294.7	3380.0	3418.5	3443.3	3465.3
30°	6848.0	6151.7	4057.1	3044.2	3044.2	3151.5	3264.4	3286.4	3338.7	3369.0	3407.5
32.5°	6914.1	5942.5	3633.2	2914.8	3005.7	3179.1	3187.3	3228.6	3231.4	3256.1	3214.8
35°	7087.5	5793.9	3239.6	2821.2	3022.2	3151.5	3192.8	3168.0	3033.2	2967.1	2980.9
37.5°	7214.1	5719.5	2956.1	2810.2	3024.9	3181.8	3203.8	3016.7	2876.3	2766.2	2793.7
40°	7555.4	5535.1	2741.4	2791.0	3049.7	3214.8	3154.3	2950.6	2697.4	2584.5	2565.3
42.5°	7816.9	5403.0	2606.6	2768.9	3069.0	3261.6	3129.5	2818.5	2559.8	2455.2	2482.7
45°	8119.7	5372.7	2535.0	2774.4	3102.0	3286.4	3099.2	2716.6	2441.4	2400.1	2391.9
47.5°	8227.0	5155.3	2457.9	2727.7	3093.7	3278.1	2997.4	2639.6	2397.4	2402.9	2424.9
50°	8048.1	4932.4	2400.1	2631.3	3038.7	3203.8	2837.8	2537.7	2372.6	2441.4	2479.9
52.5°	7819.7	4703.9	2281.8	2502.0	2925.8	3088.2	2763.4	2532.2	2347.8	2325.8	2334.1
55°	7888.5	4516.7	2116.6	2325.8	2744.2	2873.5	2680.9	2479.9	2287.3	2204.7	2232.2
56°	7665.5	4324.1	2009.3	2215.7	2620.3	2735.9	2639.6	2433.1	2237.7	2182.7	2182.7
57.5°	7035.2	3677.2	1868.9	2039.6	2358.8	2496.5	2559.8	2405.6	2182.7	2086.3	2089.1
60°	5188.3	2614.8	1676.2	1797.3	1954.2	2064.3	2358.8	2328.6	2045.1	1979.0	1954.2
62.5°	3198.3	1910.2	1538.6	1585.4	1665.2	1756.1	2058.8	2108.4	1899.2	1827.6	1811.1
65°	1791.8	1461.5	1434.0	1453.3	1491.8	1538.6	1709.3	1819.4	1676.2	1566.1	1560.6
67.5°	1310.2	1307.4	1329.4	1345.9	1362.5	1362.5	1403.7	1447.8	1428.5	1340.4	1332.2
70°	1164.3	1172.5	1189.0	1191.8	1197.3	1178.0	1145.0	1131.2	1153.3	1098.2	1087.2
72.5°	960.6	988.1	1007.4	1010.1	979.9	955.1	911.1	864.3	847.7	836.7	834.0
75°	737.7	756.9	765.2	762.4	751.4	715.6	663.3	616.5	586.3	553.2	569.8
77.5°	498.2	525.7	539.5	539.5	523.0	467.9	443.1	407.4	377.1	341.3	346.8
80°	349.6	368.8	390.8	388.1	360.6	333.0	297.3	264.2	239.5	211.9	209.2
82.5°	261.5	272.5	283.5	278.0	258.7	231.2	206.4	176.2	148.6	129.4	129.4
85°	93.6	101.8	123.9	129.4	140.4	140.4	118.4	99.1	79.8	66.1	66.1
87.5°	27.5	27.5	30.3	30.3	27.5	30.3	24.8	27.5	30.3	19.3	19.3
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)