

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: P533732

Luminaire Tested: **GALN-SA9A-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533732
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-SA9A-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 28759 lumens
Efficiency: N/A
Efficacy: 105.0 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

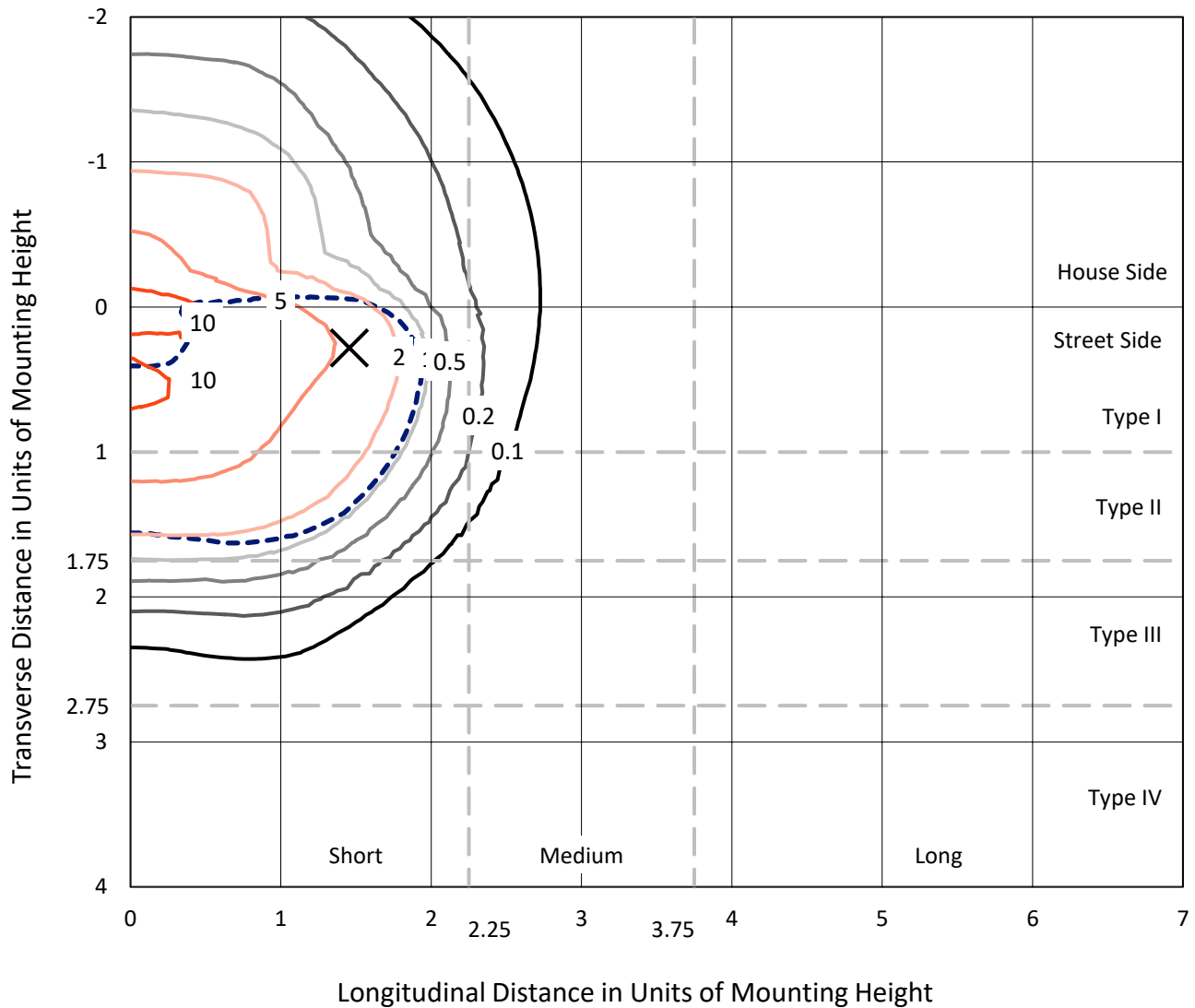
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

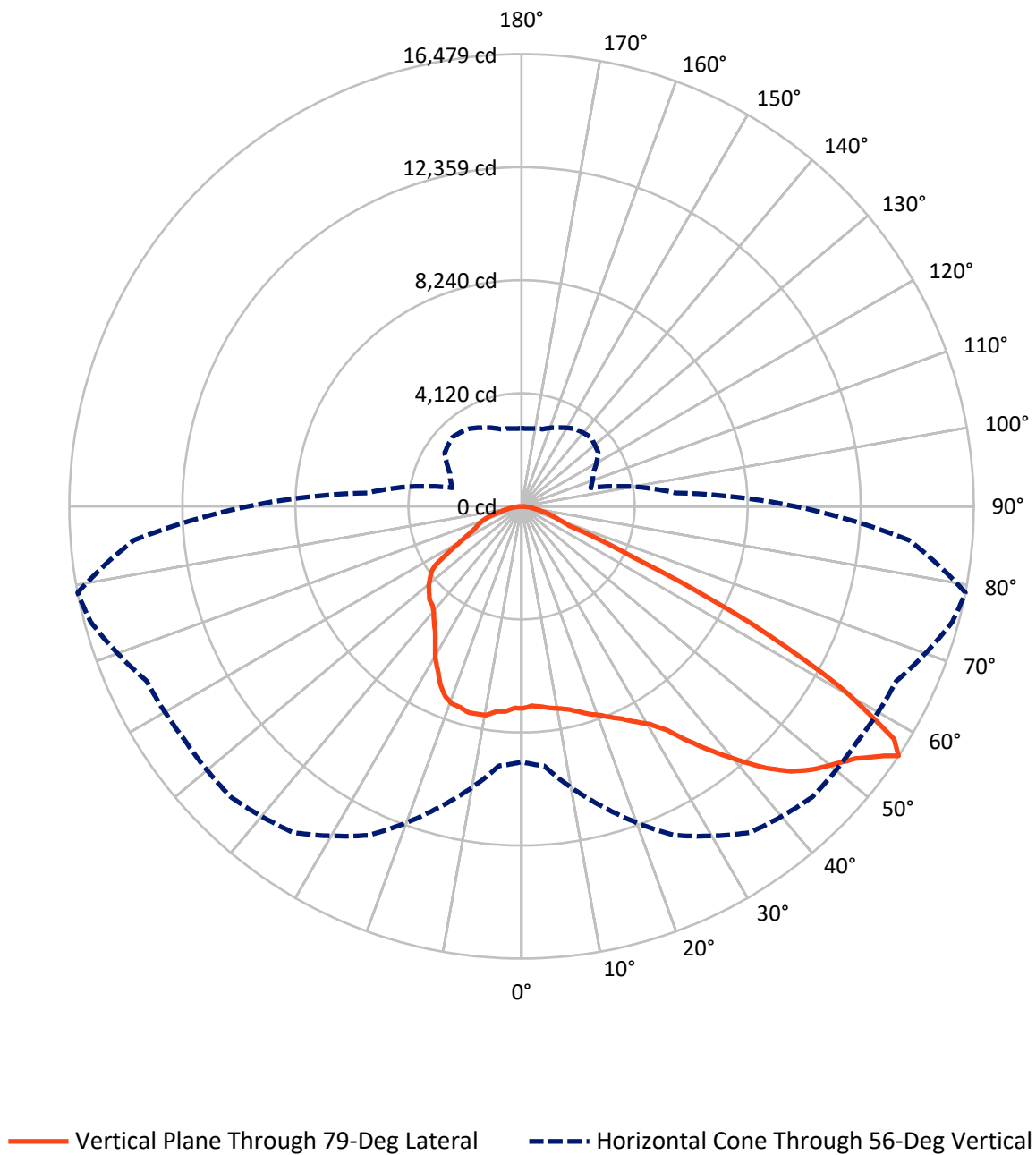


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8493.2	0.0	8493.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	20265.8	0.0	20265.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	28759.0	0.0	28759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.0	2.3
10°-20°	1830.9	6.4
20°-30°	3132.3	10.9
30°-40°	4800.6	16.7
40°-50°	6488.0	22.6
50°-60°	7451.7	25.9
60°-70°	3396.7	11.8
70°-80°	837.5	2.9
80°-90°	152.2	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°	28759.0	100.0
0°-180°	28759.0	100.0

Coefficient of Utilization



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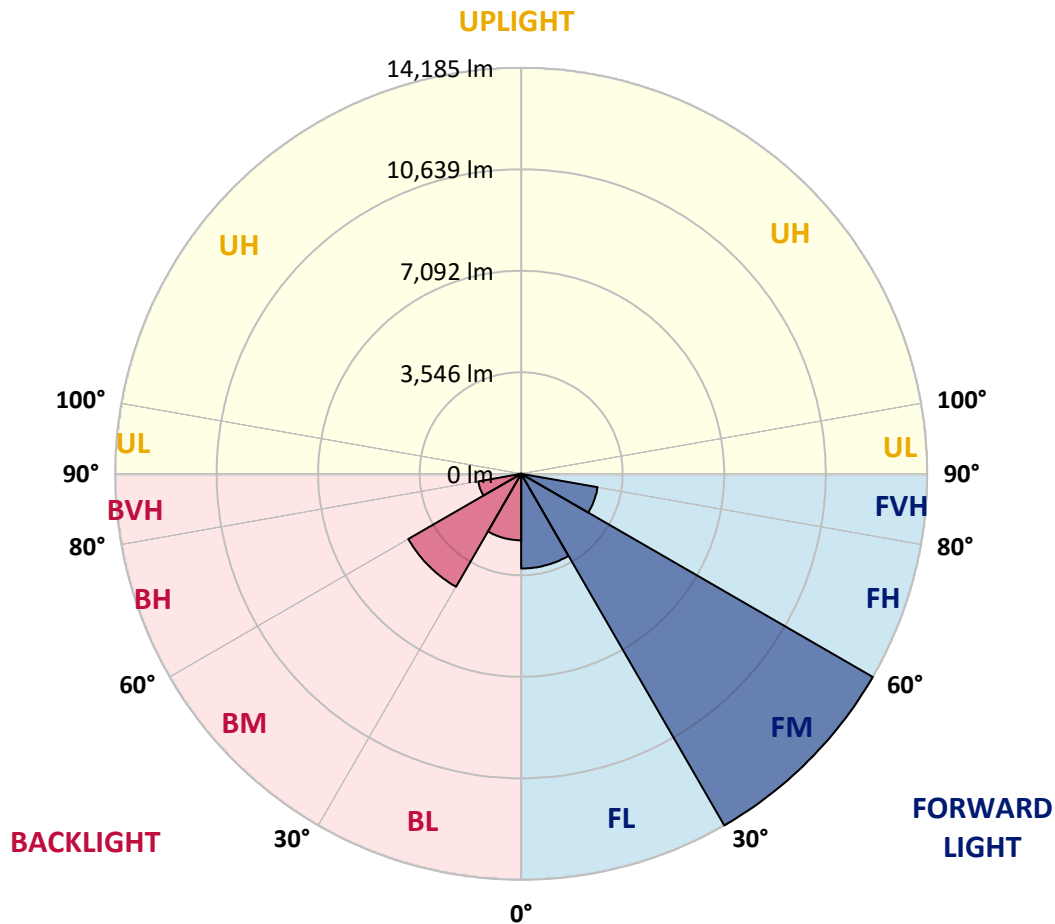
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3309.0	11.5			
FM	(30°-60°)	14184.8	49.3			
FH	(60°-80°)	2711.3	9.4			G2/5000
FVH	(80°-90°)	60.8	0.2			G1/100
BL	(0°-30°)	2323.2	8.1	B3/2500		
BM	(30°-60°)	4555.6	15.8	B3/5000		
BH	(60°-80°)	1522.9	5.3	B3/2500		G3/2500
BVH	(80°-90°)	91.4	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°	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3
2.5°	7000.0	6982.1	7025.1	7057.4	7096.8	7146.9	7172.0	7186.3	7311.7	7279.5	7376.2
5°	6849.6	6803.0	6835.3	6860.3	6928.4	6989.3	7057.4	7164.8	7279.5	7329.6	7447.8
7.5°	6717.0	6692.0	6684.8	6702.7	6795.8	6874.7	6992.9	7150.5	7336.8	7419.2	7487.3
10°	6498.5	6462.7	6516.4	6634.6	6659.7	6824.5	6960.6	7186.3	7347.5	7490.8	7691.5
12.5°	6401.8	6366.0	6376.7	6444.8	6620.3	6777.9	6939.1	7193.5	7533.8	7591.1	7859.8
15°	6555.8	6520.0	6530.8	6512.8	6681.2	6763.6	7018.0	7336.8	7662.8	7759.5	8046.1
17.5°	6906.9	6910.5	6863.9	6824.5	6785.1	6960.6	7136.2	7422.8	7712.9	7956.6	8171.5
20°	7576.8	7458.6	7365.5	7143.3	7082.4	7157.7	7379.8	7655.6	7917.1	8117.8	8361.4
22.5°	8092.7	8103.4	7970.9	7605.5	7472.9	7505.2	7695.0	7920.7	8207.3	8350.6	8630.0
25°	8841.4	8766.2	8622.9	8332.7	8035.4	8060.4	8200.2	8404.4	8483.2	8583.5	8888.0
27.5°	9525.7	9547.1	9264.1	8991.9	8622.9	8551.2	8802.0	8837.8	8705.3	8895.1	8999.0
30°	10220.6	10202.7	10016.4	9697.6	9335.8	9350.1	9461.2	9285.6	9102.9	9206.8	9278.5
32.5°	10940.7	10736.5	10729.3	10442.8	10166.9	10034.4	9898.2	9984.2	9701.2	9722.7	9654.6
35°	11517.5	11546.1	11381.3	11177.1	11041.0	10808.2	10435.6	10589.6	10535.9	10510.8	10217.1
37.5°	11936.6	11825.6	11908.0	11839.9	11710.9	11420.8	11033.9	11180.7	11205.8	11327.6	10987.3
40°	12280.5	12234.0	12452.5	12488.3	12398.8	11771.8	11076.8	11513.9	11890.0	12155.1	11750.3
42.5°	12445.3	12545.6	12774.9	13050.8	12850.1	12180.2	11299.0	11768.2	12606.5	13025.7	12474.0
45°	12667.4	12538.5	12878.8	13383.9	13387.5	12524.1	11513.9	12112.2	13165.4	13774.4	12968.4
47.5°	12441.7	12506.2	12857.3	13498.6	13663.3	12886.0	12094.2	12599.4	13781.6	14322.5	13426.9
50°	11936.6	12065.6	12706.8	13373.2	13871.1	13269.3	12760.6	13126.0	14351.2	14763.1	13502.1
52.5°	11410.0	11481.7	12484.7	13469.9	13964.3	13763.7	13652.6	13853.2	15046.2	15261.1	13595.3
55°	9977.0	10317.4	11750.3	13426.9	14419.2	14655.7	14569.7	14863.5	15834.3	16049.2	14104.0
56°	9314.3	9493.4	11309.7	13226.3	14508.8	14981.7	14938.7	15071.2	16253.4	16479.1	14182.8
57.5°	8089.1	8103.4	9643.9	12337.9	14172.1	15078.4	15035.4	15139.3	16171.0	16017.0	13491.4
60°	5062.0	5284.1	6563.0	9489.8	12051.3	13989.3	14233.0	13398.2	13634.7	13308.7	10496.5
62.5°	2622.3	2590.1	3439.1	5549.2	7999.5	10016.4	10242.1	10202.7	9837.3	9360.9	6856.8
65°	1307.6	1314.7	1798.4	2747.7	4098.3	5244.7	5875.2	5943.2	4972.4	4574.7	3252.8
67.5°	949.3	985.2	1293.3	1680.2	1930.9	2160.2	2647.4	2597.3	1966.7	1870.0	1733.9
70°	738.0	770.2	1049.6	1282.5	1164.3	1164.3	1268.2	1311.2	1400.7	1440.1	1486.7
72.5°	537.4	562.4	802.5	884.9	763.1	820.4	949.3	1049.6	1142.8	1157.1	1210.9
75°	369.0	390.5	526.6	487.2	458.5	566.0	695.0	788.1	856.2	892.0	924.3
77.5°	240.0	247.2	300.9	254.4	293.8	365.4	451.4	530.2	598.3	626.9	634.1
80°	107.5	118.2	129.0	161.2	204.2	261.5	322.4	386.9	429.9	440.6	462.1
82.5°	60.9	60.9	78.8	114.6	150.5	189.9	232.9	279.4	329.6	340.3	336.7
85°	32.2	32.2	46.6	68.1	93.1	111.1	107.5	111.1	118.2	136.1	132.5
87.5°	10.7	10.7	14.3	14.3	17.9	21.5	17.9	25.1	32.2	32.2	32.2
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°	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3	7358.3
2.5°	7347.5	7379.8	7336.8	7429.9	7429.9	7412.0	7322.5	7351.1	7372.6	7372.6	7390.5
5°	7487.3	7476.5	7505.2	7394.1	7326.0	7301.0	7154.1	7082.4	7021.5	7018.0	6964.2
7.5°	7566.1	7537.4	7526.7	7444.3	7143.3	6960.6	6645.4	6462.7	6423.3	6283.6	6337.3
10°	7691.5	7745.2	7691.5	7243.7	6824.5	6405.4	6097.3	5814.3	5703.2	5613.7	5559.9
12.5°	7949.4	7924.3	7612.6	7007.2	6419.7	5921.7	5463.2	5165.8	5054.8	4976.0	4968.8
15°	8167.9	8042.5	7566.1	6634.6	5789.2	5259.0	4882.8	4671.5	4621.3	4628.5	4660.7
17.5°	8243.1	8157.2	7322.5	6247.7	5319.9	4696.6	4521.0	4488.8	4535.3	4589.1	4603.4
20°	8361.4	8225.2	7222.2	5721.1	4739.5	4345.5	4334.7	4449.4	4535.3	4614.2	4624.9
22.5°	8608.6	8264.6	6896.2	5223.2	4341.9	4241.6	4345.5	4442.2	4574.7	4639.2	4581.9
25°	8680.2	8178.7	6437.6	4624.9	4091.1	4177.1	4288.2	4420.7	4513.8	4549.7	4574.7
27.5°	8741.1	8046.1	5817.8	4227.3	4012.3	4173.5	4288.2	4399.2	4449.4	4481.6	4510.3
30°	8913.1	8006.7	5280.5	3962.2	3962.2	4101.9	4248.7	4277.4	4345.5	4384.9	4435.0
32.5°	8999.0	7734.4	4728.8	3793.8	3912.0	4137.7	4148.4	4202.2	4205.8	4238.0	4184.3
35°	9224.7	7541.0	4216.5	3672.0	3933.5	4101.9	4155.6	4123.4	3947.8	3861.8	3879.8
37.5°	9389.5	7444.3	3847.5	3657.7	3937.1	4141.3	4169.9	3926.3	3743.6	3600.3	3636.2
40°	9833.7	7204.2	3568.1	3632.6	3969.3	4184.3	4105.5	3840.4	3510.8	3363.9	3338.8
42.5°	10174.1	7032.3	3392.6	3603.9	3994.4	4245.2	4073.2	3668.4	3331.6	3195.5	3231.3
45°	10568.1	6992.9	3299.4	3611.1	4037.4	4277.4	4033.8	3535.8	3177.6	3123.9	3113.1
47.5°	10707.9	6709.9	3199.1	3550.2	4026.6	4266.7	3901.3	3435.5	3120.3	3127.5	3156.1
50°	10475.0	6419.7	3123.9	3424.8	3955.0	4169.9	3693.5	3303.0	3088.0	3177.6	3227.8
52.5°	10177.7	6122.4	2969.8	3256.4	3808.1	4019.5	3596.7	3295.8	3055.8	3027.1	3037.9
55°	10267.2	5878.8	2754.9	3027.1	3571.7	3740.0	3489.3	3227.8	2977.0	2869.5	2905.3
56°	9977.0	5628.0	2615.2	2883.8	3410.5	3560.9	3435.5	3166.9	2912.5	2840.9	2840.9
57.5°	9156.7	4786.1	2432.5	2654.6	3070.1	3249.3	3331.6	3131.0	2840.9	2715.5	2719.1
60°	6752.9	3403.3	2181.7	2339.3	2543.5	2686.8	3070.1	3030.7	2661.7	2575.8	2543.5
62.5°	4162.8	2486.2	2002.6	2063.5	2167.4	2285.6	2679.6	2744.1	2471.9	2378.7	2357.2
65°	2332.2	1902.3	1866.4	1891.5	1941.7	2002.6	2224.7	2368.0	2181.7	2038.4	2031.2
67.5°	1705.2	1701.6	1730.3	1751.8	1773.3	1773.3	1827.0	1884.4	1859.3	1744.6	1733.9
70°	1515.4	1526.1	1547.6	1551.2	1558.4	1533.3	1490.3	1472.4	1501.0	1429.4	1415.1
72.5°	1250.3	1286.1	1311.2	1314.7	1275.3	1243.1	1185.8	1124.9	1103.4	1089.1	1085.5
75°	960.1	985.2	995.9	992.3	978.0	931.4	863.4	802.5	763.1	720.1	741.6
77.5°	648.4	684.2	702.2	702.2	680.7	609.0	576.8	530.2	490.8	444.2	451.4
80°	455.0	480.0	508.7	505.1	469.3	433.5	386.9	343.9	311.7	275.8	272.3
82.5°	340.3	354.7	369.0	361.8	336.7	300.9	268.7	229.3	193.5	168.4	168.4
85°	121.8	132.5	161.2	168.4	182.7	182.7	154.0	129.0	103.9	86.0	86.0
87.5°	35.8	35.8	39.4	39.4	35.8	39.4	32.2	35.8	39.4	25.1	25.1
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)