

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: P531651

Luminaire Tested: **GALN-SA7A-722-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-722-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14241 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

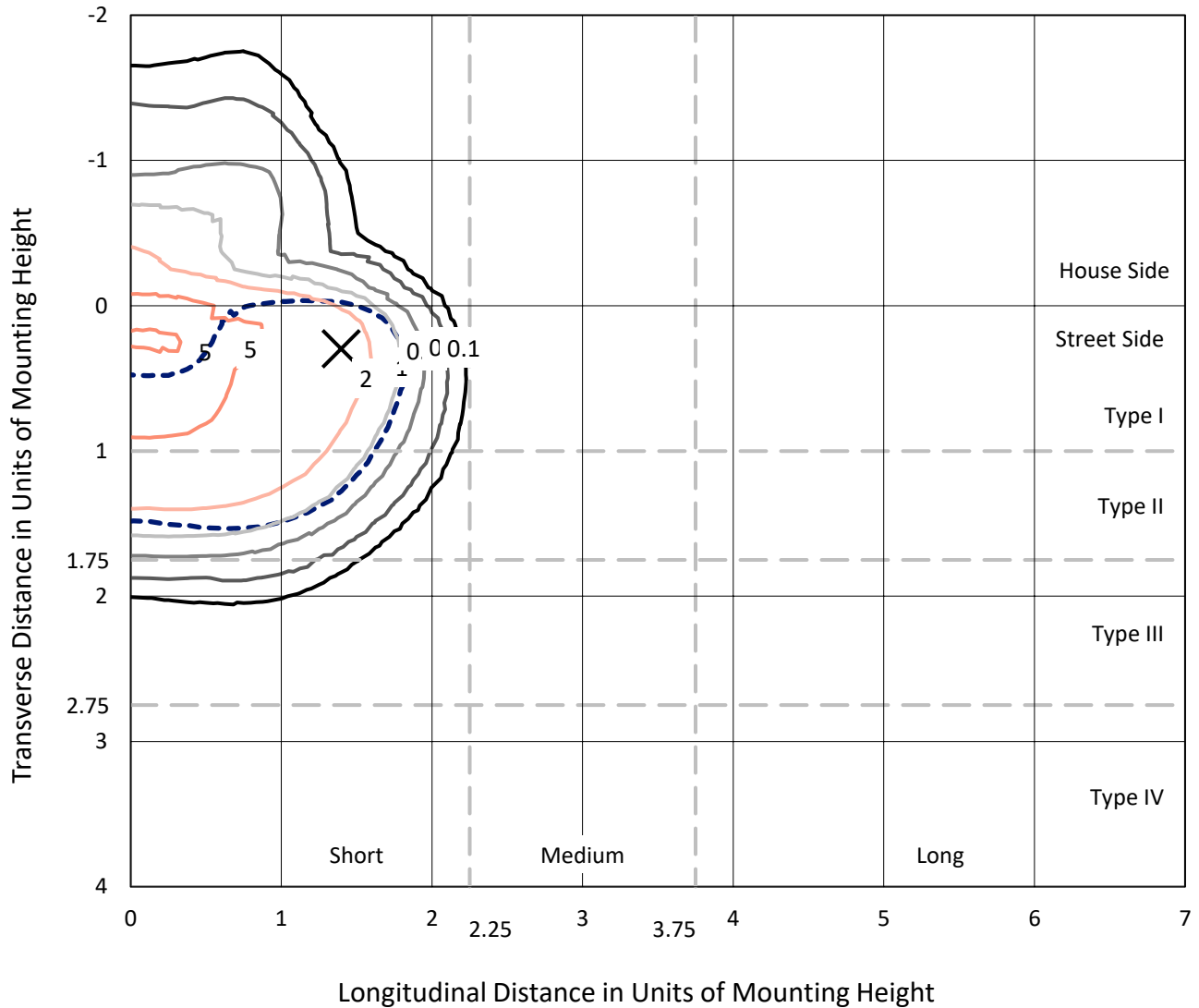
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

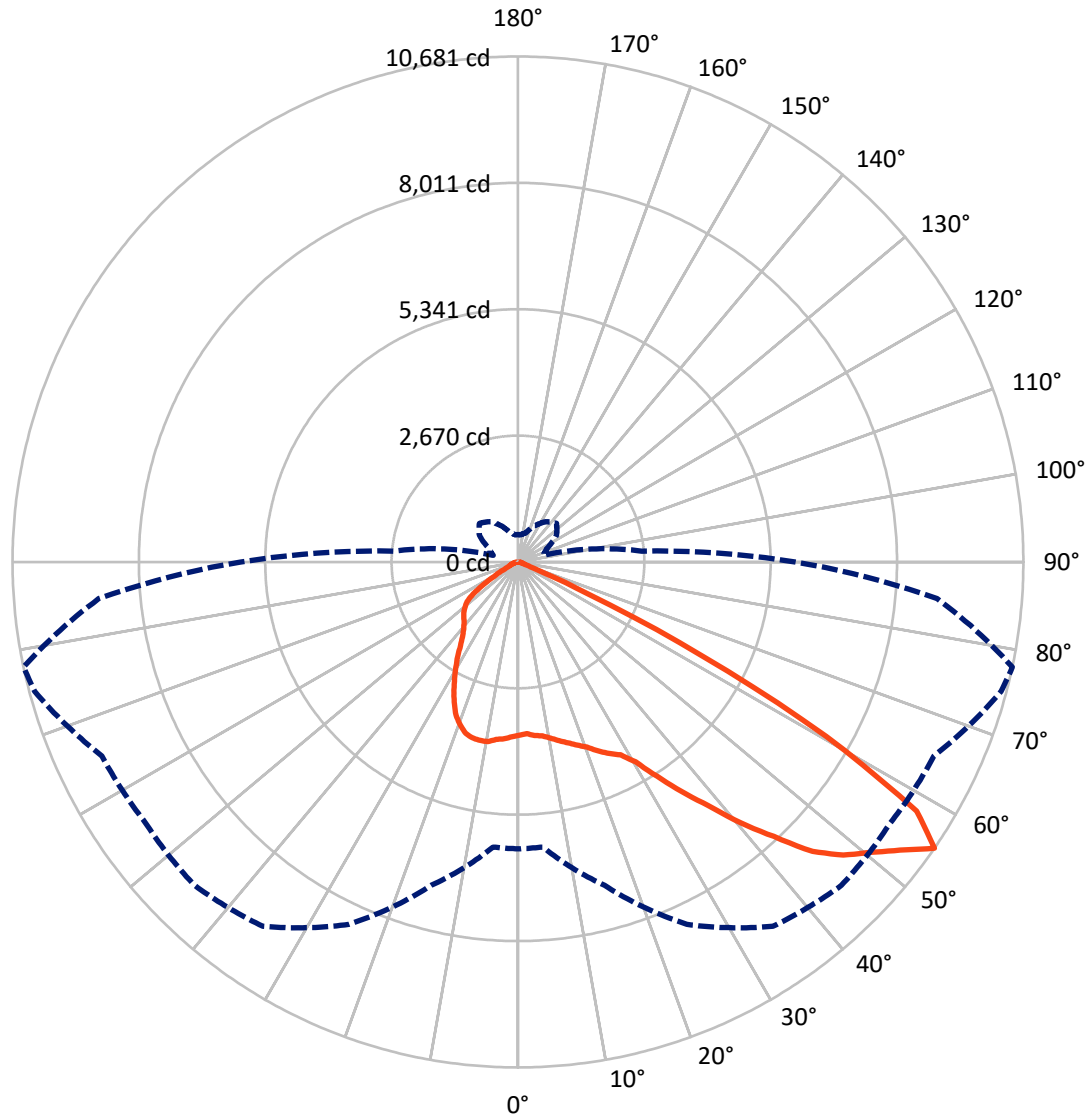
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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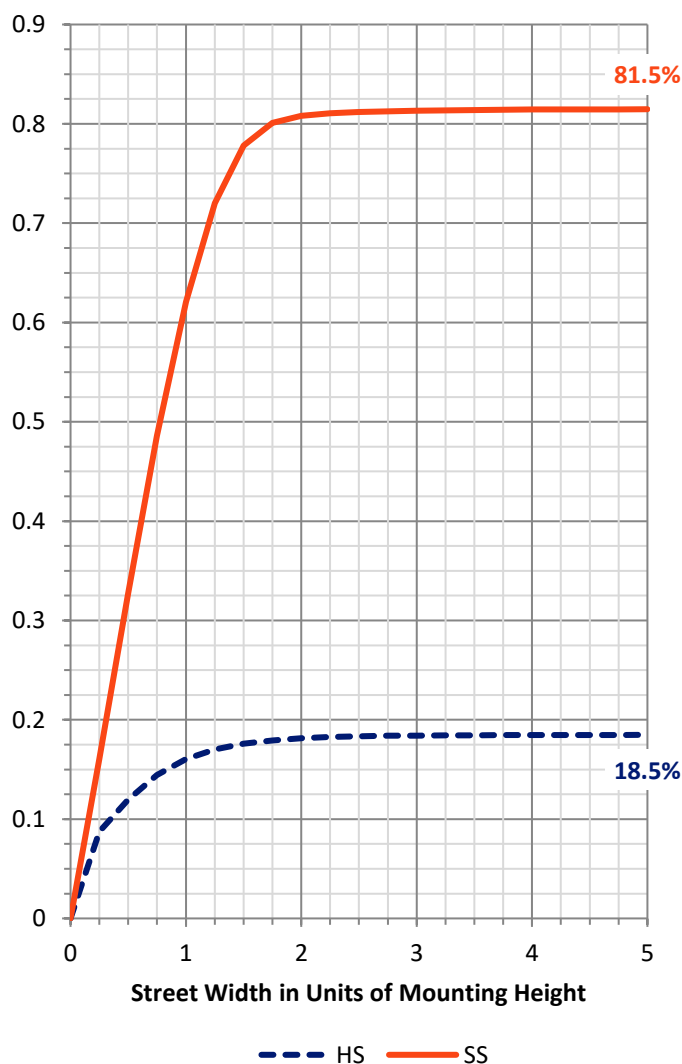
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2645.1	0.0	2645.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11595.9	0.0	11595.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	14241.0	0.0	14241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.5	2.3
10°-20°	864.0	6.1
20°-30°	1514.5	10.6
30°-40°	2497.2	17.5
40°-50°	3633.7	25.5
50°-60°	4117.4	28.9
60°-70°	1177.2	8.3
70°-80°	91.4	0.6
80°-90°	19.0	0.1
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°	14241.0	100.0
0°-180°	14241.0	100.0

Coefficient of Utilization



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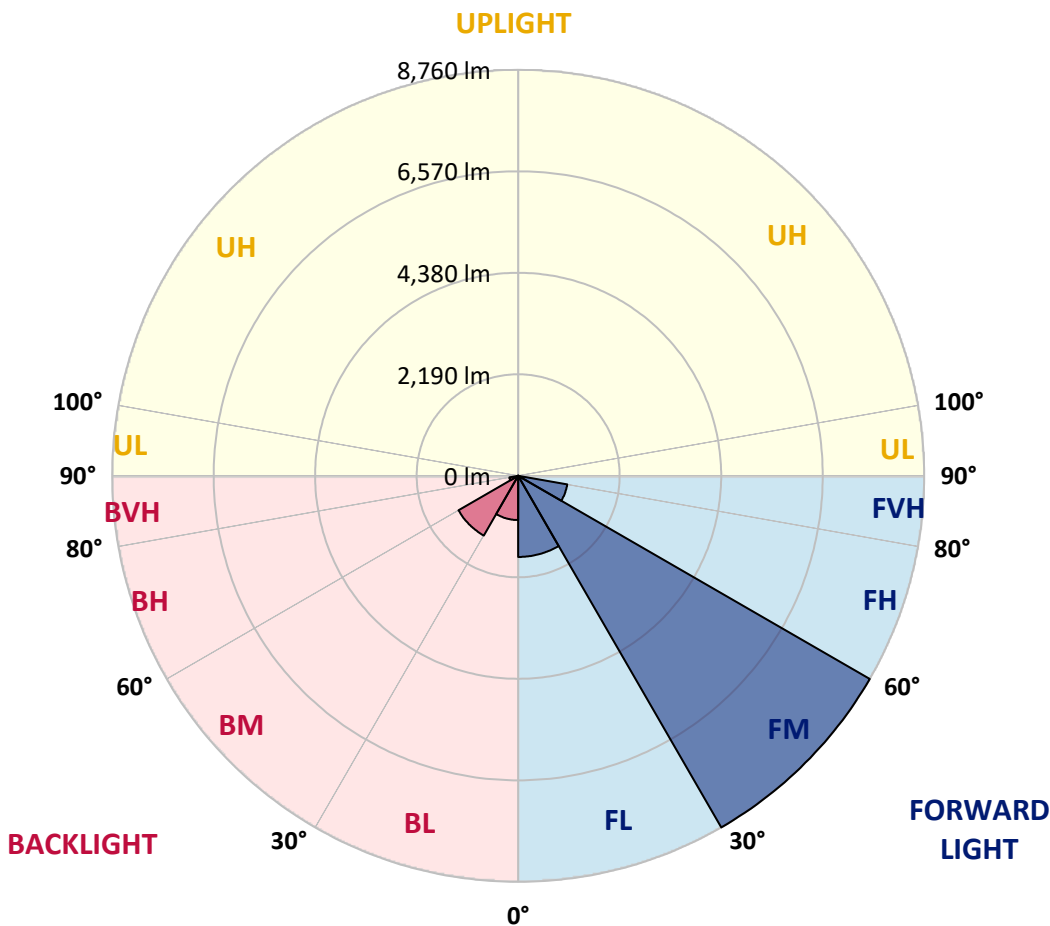
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1750.6	12.3			
FM (30°-60°)	8760.4	61.5			
FH (60°-80°)	1075.6	7.6			G1/1800
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	954.4	6.7	B2/1000		
BM (30°-60°)	1487.9	10.4	B2/2500		
BH (60°-80°)	193.1	1.4	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4
2.5°	3442.4	3475.5	3480.6	3521.3	3518.8	3587.5	3607.9	3610.4	3656.3	3633.4	3691.9
5°	3345.6	3327.8	3320.2	3391.5	3411.8	3473.0	3523.9	3554.4	3648.6	3681.7	3742.8
7.5°	3259.1	3259.1	3264.2	3327.8	3320.2	3399.1	3452.6	3546.8	3684.3	3712.3	3786.1
10°	3175.1	3144.5	3182.7	3248.9	3304.9	3340.6	3452.6	3541.7	3702.1	3783.6	3885.4
12.5°	3131.8	3147.0	3152.1	3200.5	3261.6	3368.6	3429.7	3577.3	3829.4	3877.8	3987.3
15°	3404.2	3373.7	3299.8	3256.5	3307.5	3358.4	3511.1	3661.4	3895.6	3964.4	4086.6
17.5°	3719.9	3694.5	3633.4	3516.2	3401.7	3495.9	3615.5	3753.0	3966.9	4068.8	4249.5
20°	4132.4	4091.7	4030.6	3801.4	3702.1	3600.3	3727.6	3890.5	4084.0	4175.7	4361.6
22.5°	4623.8	4623.8	4486.3	4208.8	4002.6	3905.8	3959.3	4053.5	4213.9	4338.6	4522.0
25°	5135.6	5120.3	4995.6	4707.8	4359.0	4244.4	4305.5	4371.7	4415.0	4483.8	4606.0
27.5°	5721.2	5632.1	5474.2	5156.0	4847.9	4626.4	4692.6	4634.0	4580.5	4616.2	4791.9
30°	6118.4	6174.4	5973.3	5667.7	5377.5	5130.5	5143.2	5092.3	4847.9	4898.8	5003.2
32.5°	6530.9	6566.5	6454.5	6286.5	5996.2	5708.5	5604.1	5560.8	5377.5	5400.4	5298.5
35°	6874.6	6943.4	6844.1	6770.2	6686.2	6454.5	6166.8	6306.8	6011.5	5955.5	5690.7
37.5°	7190.3	7170.0	7287.1	7210.7	7192.9	7029.9	6714.2	6742.2	6543.6	6530.9	6225.3
40°	7473.0	7478.1	7638.5	7674.1	7602.8	7312.6	6854.2	7075.8	7236.2	7251.4	6859.3
42.5°	7707.2	7776.0	7913.4	8201.2	8094.2	7610.5	6999.4	7241.3	7837.1	7931.3	7460.2
45°	7910.9	8050.9	8221.5	8478.7	8417.6	8033.1	7360.9	7582.4	8478.7	8725.7	8025.5
47.5°	7923.6	8107.0	8292.8	8674.7	8751.1	8259.7	7735.2	8122.2	8987.9	9255.3	8438.0
50°	7872.7	7969.5	8341.2	8756.2	8929.4	8628.9	8259.7	8575.4	9481.9	9649.9	8646.7
52.5°	7269.3	7343.1	8089.1	8832.6	9250.2	9046.5	8954.8	9206.9	9986.0	10110.8	8842.8
55°	6059.8	6047.1	7073.2	8448.1	9397.9	9665.2	9609.2	9698.3	10569.1	10681.1	8891.2
57.5°	4145.1	4376.8	5262.9	7035.0	8494.0	9520.1	9578.6	9431.0	9889.3	9932.5	7750.5
60°	2235.5	2332.3	3045.2	4695.1	6467.2	7758.1	7910.9	7643.6	7607.9	7485.7	5532.8
62.5°	888.6	937.0	1341.8	2324.6	3523.9	4715.5	5043.9	4934.4	4700.2	4379.4	2864.4
65°	422.7	453.2	667.1	1087.2	1563.3	1965.6	2294.1	2395.9	1767.0	1591.3	944.6
67.5°	287.7	310.6	486.3	621.3	557.6	583.1	758.8	705.3	415.0	353.9	262.3
70°	219.0	234.2	389.6	422.7	249.5	175.7	196.1	183.3	170.6	173.1	170.6
72.5°	155.3	168.0	285.2	249.5	109.5	81.5	104.4	124.8	124.8	124.8	122.2
75°	94.2	106.9	165.5	96.8	43.3	43.3	66.2	84.0	89.1	91.7	86.6
77.5°	48.4	61.1	56.0	28.0	28.0	33.1	48.4	58.6	63.7	63.7	61.1
80°	10.2	10.2	10.2	15.3	28.0	35.6	48.4	53.5	61.1	61.1	56.0
82.5°	0.0	2.5	7.6	15.3	25.5	33.1	45.8	53.5	61.1	63.7	58.6
85°	0.0	2.5	5.1	10.2	17.8	20.4	17.8	15.3	15.3	15.3	15.3
87.5°	0.0	0.0	2.5	2.5	2.5	5.1	5.1	5.1	5.1	5.1	5.1
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°	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4	3661.4
2.5°	3697.0	3704.7	3691.9	3689.4	3679.2	3709.7	3635.9	3618.1	3663.9	3620.6	3630.8
5°	3745.4	3763.2	3740.3	3702.1	3646.1	3559.5	3485.7	3388.9	3343.1	3310.0	3304.9
7.5°	3781.0	3793.8	3770.9	3648.6	3480.6	3261.6	3098.7	2979.0	2884.8	2856.8	2811.0
10°	3926.2	3928.7	3814.1	3544.2	3215.8	2928.1	2678.6	2495.2	2401.0	2342.5	2317.0
12.5°	4022.9	4017.8	3786.1	3338.0	2900.1	2518.1	2233.0	2011.5	1924.9	1896.9	1879.1
15°	4145.1	4117.1	3719.9	3126.7	2492.7	2080.2	1823.0	1670.3	1662.6	1644.8	1662.6
17.5°	4241.9	4163.0	3623.2	2742.2	2103.1	1713.6	1545.5	1555.7	1576.1	1593.9	1596.4
20°	4399.8	4236.8	3401.7	2406.1	1741.6	1469.1	1466.6	1512.4	1563.3	1583.7	1604.1
22.5°	4519.4	4267.4	3164.9	2047.1	1446.2	1369.8	1413.1	1481.9	1520.1	1540.4	1571.0
25°	4562.7	4183.3	2849.1	1688.1	1303.6	1324.0	1390.2	1436.0	1484.4	1507.3	1494.6
27.5°	4606.0	4140.0	2472.3	1390.2	1227.2	1293.4	1349.5	1395.3	1410.6	1441.1	1461.5
30°	4710.4	3989.8	2133.7	1201.8	1189.1	1273.1	1313.8	1329.1	1369.8	1387.7	1387.7
32.5°	4794.4	3931.3	1774.7	1112.7	1184.0	1283.3	1288.4	1288.4	1293.4	1280.7	1275.6
35°	4967.5	3730.1	1453.9	1059.2	1181.4	1285.8	1298.5	1255.3	1138.1	1092.3	1079.6
37.5°	5181.4	3600.3	1217.1	1046.5	1199.2	1316.4	1336.7	1173.8	1021.0	947.2	934.4
40°	5441.1	3508.6	1061.7	1041.4	1240.0	1387.7	1326.5	1110.1	911.5	804.6	799.5
42.5°	5744.1	3424.6	957.4	1038.8	1290.9	1461.5	1316.4	1056.7	799.5	728.2	738.4
45°	5986.0	3378.7	886.1	1021.0	1308.7	1504.8	1324.0	962.4	753.7	707.8	712.9
47.5°	6174.4	3282.0	827.5	990.5	1306.2	1520.1	1255.3	924.3	730.7	743.5	756.2
50°	6179.5	3152.1	753.7	924.3	1268.0	1492.0	1176.3	888.6	725.7	779.1	804.6
52.5°	6110.8	2968.8	674.7	830.0	1178.9	1395.3	1105.0	873.3	702.7	697.6	728.2
55°	5866.3	2625.1	542.3	672.2	995.5	1150.9	1041.4	845.3	634.0	575.4	580.5
57.5°	4740.9	1881.6	399.7	481.2	705.3	842.8	939.5	832.6	570.3	488.9	491.4
60°	2935.7	1066.8	292.8	328.5	435.4	511.8	761.3	774.0	509.2	412.5	407.4
62.5°	1507.3	527.1	226.6	231.7	267.3	300.4	522.0	649.3	460.9	392.1	392.1
65°	504.1	259.7	198.6	178.2	178.2	185.9	315.7	450.7	389.6	328.5	328.5
67.5°	216.4	193.5	173.1	155.3	142.6	134.9	178.2	262.3	290.3	249.5	239.3
70°	168.0	163.0	150.2	129.9	112.0	101.8	104.4	134.9	165.5	160.4	155.3
72.5°	124.8	124.8	119.7	101.8	86.6	73.8	68.7	71.3	78.9	81.5	84.0
75°	86.6	89.1	89.1	78.9	63.7	53.5	45.8	38.2	30.6	25.5	22.9
77.5°	58.6	61.1	66.2	58.6	48.4	35.6	28.0	20.4	12.7	5.1	5.1
80°	50.9	58.6	63.7	58.6	50.9	38.2	28.0	15.3	7.6	0.0	0.0
82.5°	53.5	58.6	66.2	56.0	48.4	35.6	28.0	17.8	7.6	2.5	0.0
85°	12.7	12.7	15.3	17.8	22.9	25.5	20.4	12.7	7.6	2.5	0.0
87.5°	5.1	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	0.0	0.0
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)