

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: P531729

Luminaire Tested: **GALN-SA7A-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531729
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-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 18045 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

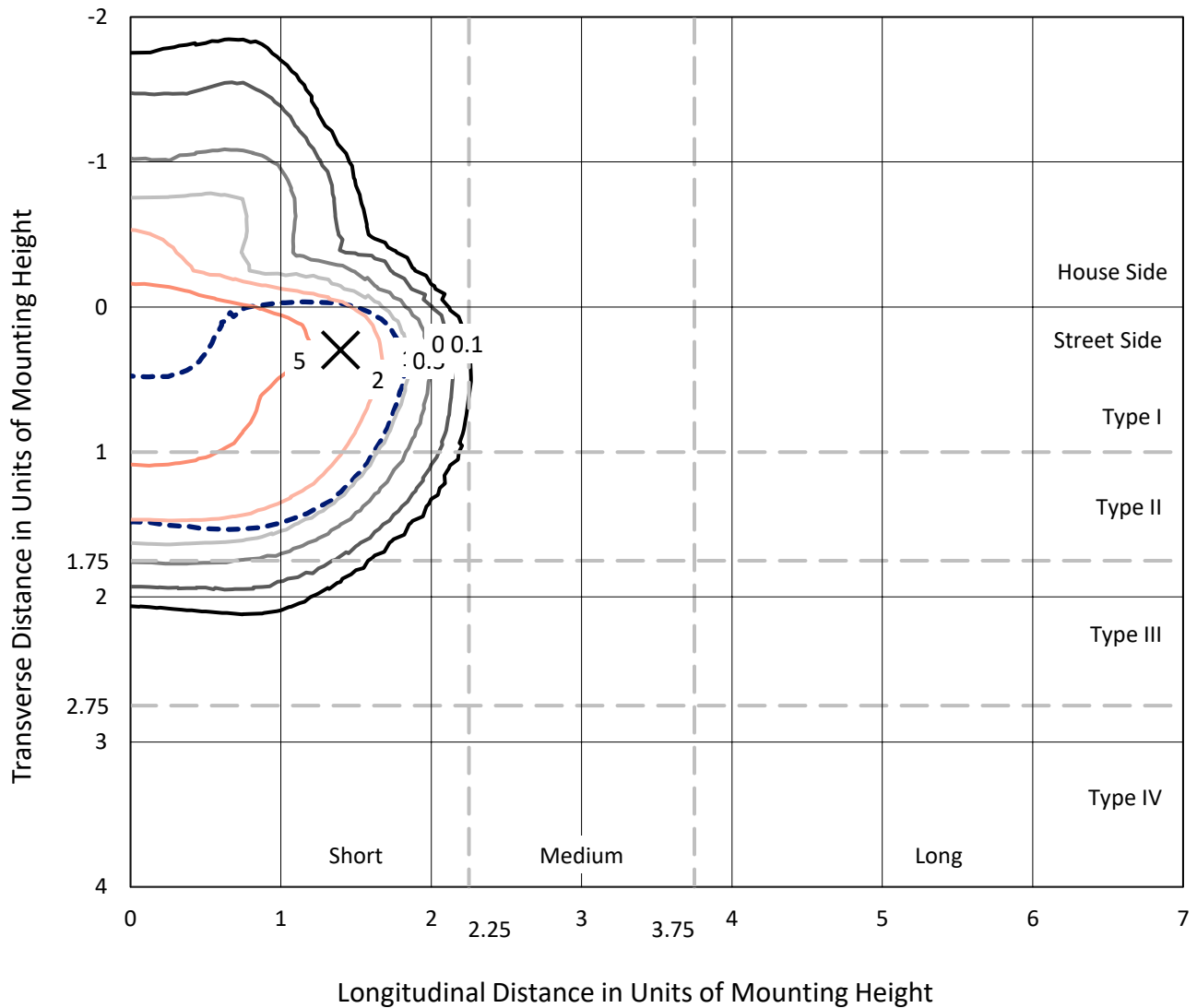
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

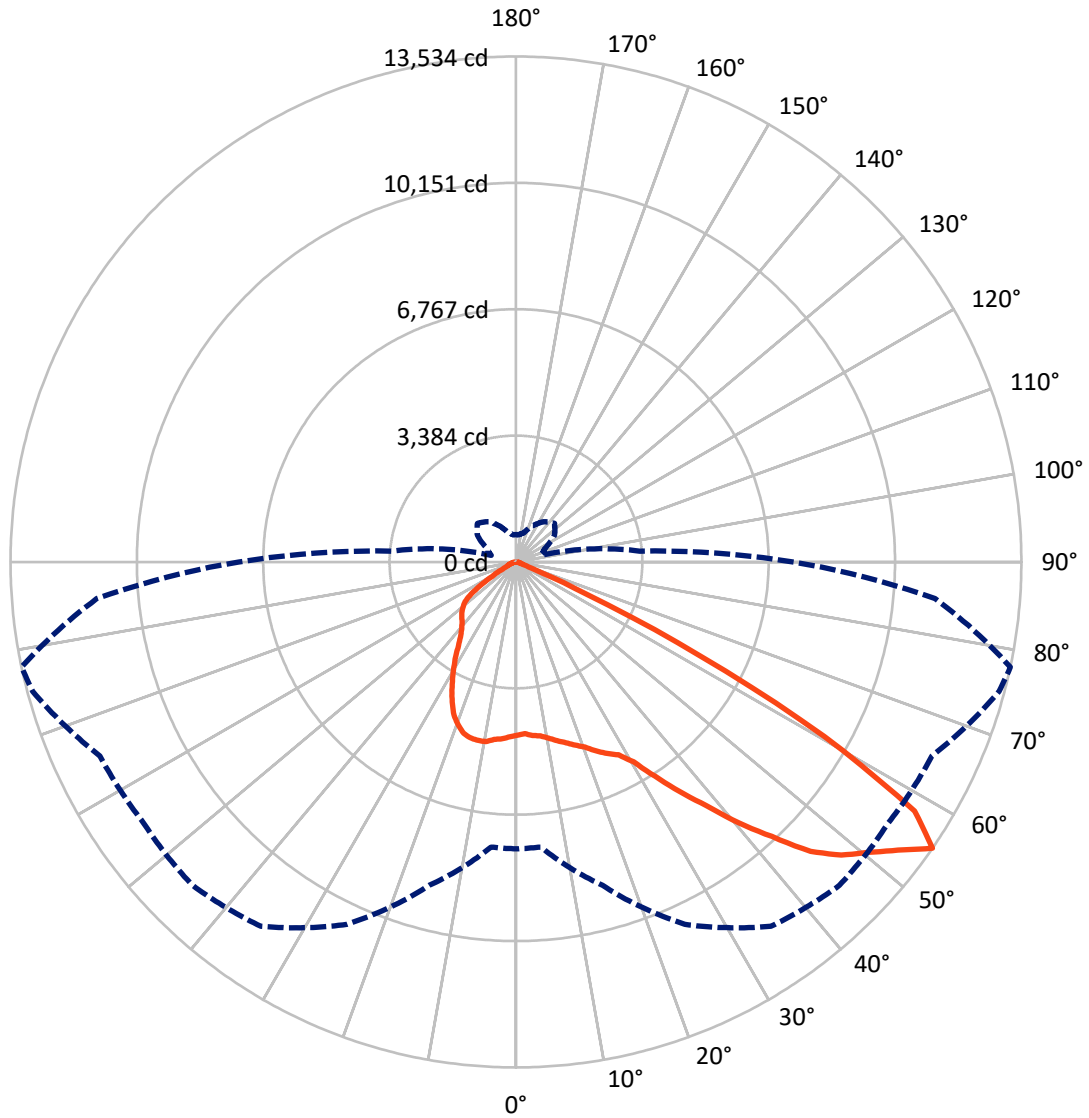
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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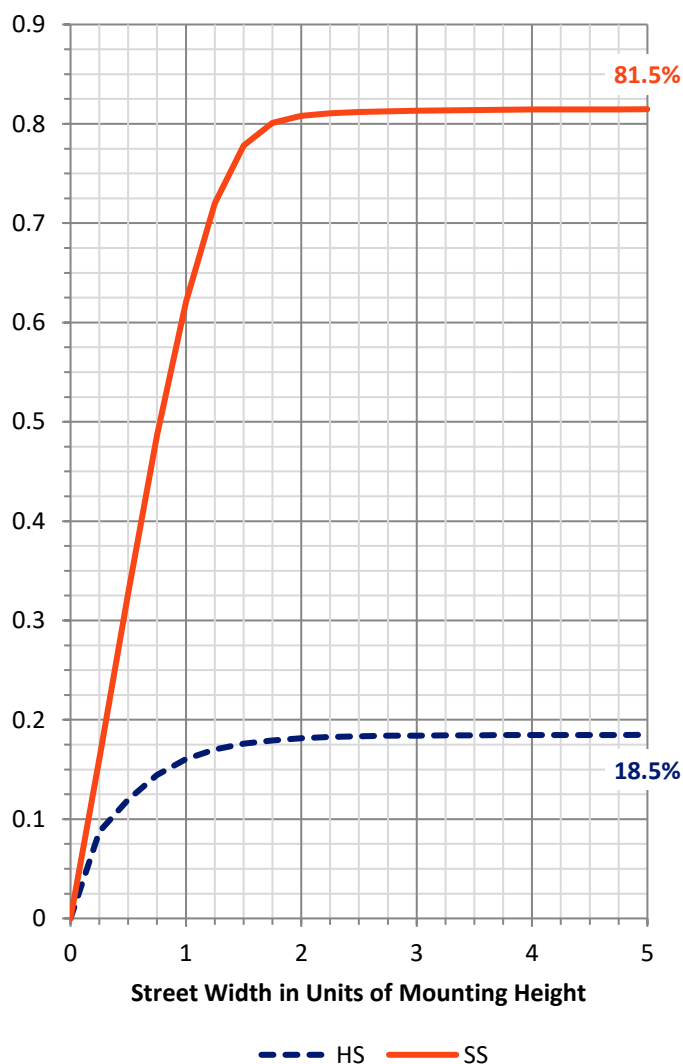
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3351.7	0.0	3351.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14693.3	0.0	14693.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	18045.0	0.0	18045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.7	2.3
10°-20°	1094.8	6.1
20°-30°	1919.0	10.6
30°-40°	3164.2	17.5
40°-50°	4604.4	25.5
50°-60°	5217.2	28.9
60°-70°	1491.7	8.3
70°-80°	115.8	0.6
80°-90°	24.1	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°	18045.0	100.0
0°-180°	18045.0	100.0

Coefficient of Utilization



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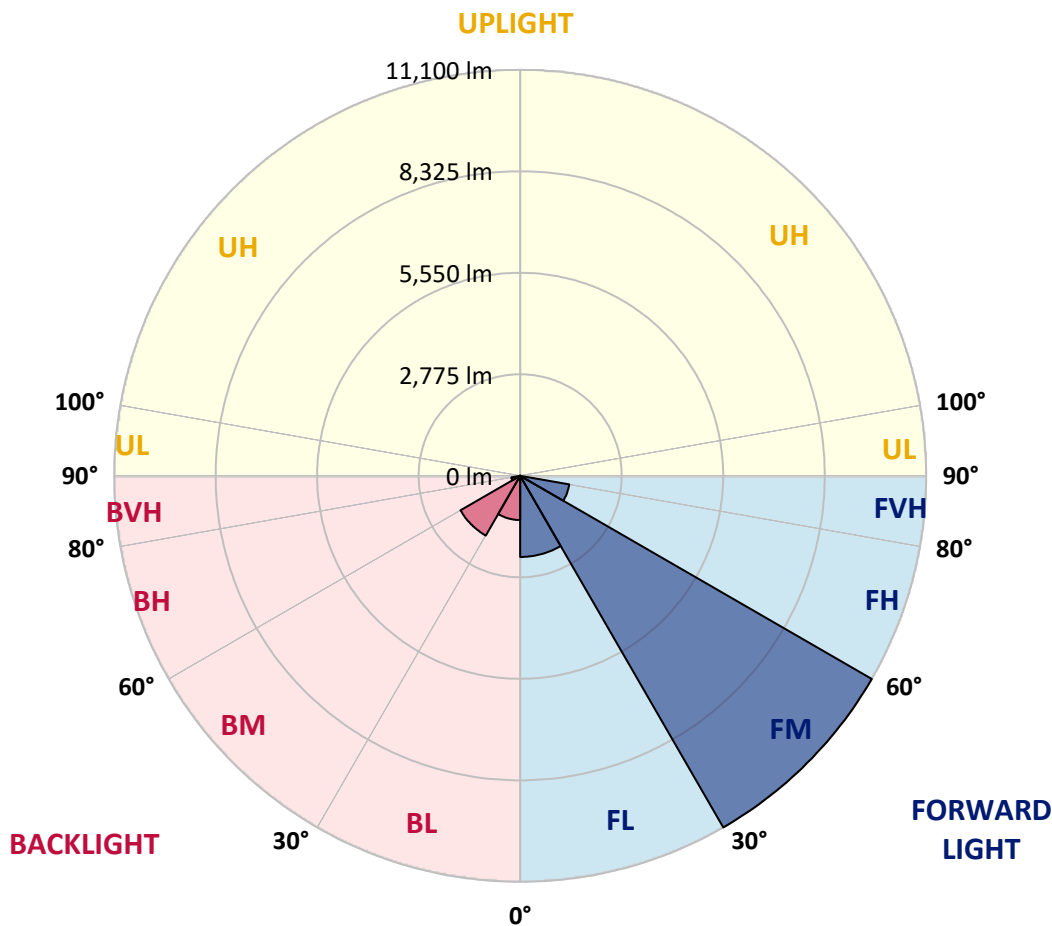
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2218.2	12.3			
FM (30°-60°)	11100.5	61.5			
FH (60°-80°)	1362.9	7.6			G1/1800
FVH (80°-90°)	11.7	0.1			G1/100
BL (0°-30°)	1209.3	6.7	B3/2500		
BM (30°-60°)	1885.4	10.4	B2/2500		
BH (60°-80°)	244.7	1.4	B1/500		G1/500
BVH (80°-90°)	12.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4
2.5°	4361.9	4403.9	4410.3	4461.9	4458.7	4545.8	4571.6	4574.9	4632.9	4603.9	4678.1
5°	4239.3	4216.7	4207.1	4297.4	4323.2	4400.6	4465.2	4503.9	4623.2	4665.2	4742.6
7.5°	4129.6	4129.6	4136.1	4216.7	4207.1	4307.1	4374.8	4494.2	4668.4	4703.9	4797.5
10°	4023.2	3984.4	4032.8	4116.7	4187.7	4232.9	4374.8	4487.7	4691.0	4794.2	4923.3
12.5°	3968.3	3987.7	3994.1	4055.4	4132.9	4268.4	4345.8	4532.9	4852.3	4913.6	5052.3
15°	4313.5	4274.8	4181.2	4126.4	4190.9	4255.5	4449.0	4639.4	4936.2	5023.3	5178.2
17.5°	4713.6	4681.3	4603.9	4455.5	4310.3	4429.7	4581.3	4755.5	5026.5	5155.6	5384.6
20°	5236.2	5184.6	5107.2	4816.8	4691.0	4561.9	4723.3	4929.7	5174.9	5291.1	5526.6
22.5°	5858.9	5858.9	5684.7	5333.0	5071.7	4949.1	5016.9	5136.2	5339.5	5497.6	5729.9
25°	6507.4	6488.0	6329.9	5965.4	5523.4	5378.2	5455.6	5539.5	5594.4	5681.5	5836.3
27.5°	7249.4	7136.5	6936.5	6533.2	6142.8	5862.1	5946.0	5871.8	5804.1	5849.2	6071.8
30°	7752.7	7823.7	7568.8	7181.7	6813.9	6500.9	6517.1	6452.5	6142.8	6207.3	6339.6
32.5°	8275.4	8320.6	8178.6	7965.7	7597.9	7233.3	7101.0	7046.2	6813.9	6842.9	6713.9
35°	8710.9	8798.0	8672.2	8578.7	8472.2	8178.6	7814.0	7991.5	7617.2	7546.3	7210.7
37.5°	9111.0	9085.2	9233.6	9136.8	9114.2	8907.7	8507.7	8543.2	8291.5	8275.4	7888.2
40°	9469.1	9475.6	9678.8	9724.0	9633.7	9265.9	8685.1	8965.8	9169.1	9188.4	8691.6
42.5°	9765.9	9853.0	10027.3	10391.8	10256.3	9643.3	8869.0	9175.5	9930.5	10049.8	9453.0
45°	10024.0	10201.5	10417.6	10743.5	10666.1	10178.9	9327.2	9607.8	10743.5	11056.4	10169.2
47.5°	10040.2	10272.5	10508.0	10991.9	11088.7	10466.0	9801.4	10291.8	11388.7	11727.5	10691.9
50°	9975.6	10098.2	10569.3	11095.2	11314.5	10933.8	10466.0	10866.1	12014.6	12227.6	10956.4
52.5°	9211.0	9304.6	10249.9	11191.9	11721.0	11462.9	11346.8	11666.2	12653.4	12811.5	11204.8
55°	7678.5	7662.4	8962.6	10704.8	11908.2	12246.9	12176.0	12288.9	13392.3	13534.2	11266.1
57.5°	5252.4	5546.0	6668.7	8914.2	10762.8	12063.0	12137.2	11950.1	12530.8	12585.7	9820.8
60°	2832.7	2955.3	3858.6	5949.2	8194.7	9830.5	10024.0	9685.3	9640.1	9485.2	7010.7
62.5°	1126.0	1187.3	1700.2	2945.6	4465.2	5975.1	6391.2	6252.5	5955.7	5549.2	3629.6
65°	535.6	574.3	845.3	1377.6	1980.9	2490.7	2906.9	3035.9	2239.0	2016.4	1196.9
67.5°	364.6	393.6	616.2	787.2	706.6	738.8	961.4	893.7	525.9	448.5	332.3
70°	277.5	296.8	493.6	535.6	316.2	222.6	248.4	232.3	216.2	219.4	216.2
72.5°	196.8	212.9	361.3	316.2	138.7	103.2	132.3	158.1	158.1	158.1	154.9
75°	119.4	135.5	209.7	122.6	54.8	54.8	83.9	106.5	112.9	116.1	109.7
77.5°	61.3	77.4	71.0	35.5	35.5	41.9	61.3	74.2	80.7	80.7	77.4
80°	12.9	12.9	12.9	19.4	35.5	45.2	61.3	67.8	77.4	77.4	71.0
82.5°	0.0	3.2	9.7	19.4	32.3	41.9	58.1	67.8	77.4	80.7	74.2
85°	0.0	3.2	6.5	12.9	22.6	25.8	22.6	19.4	19.4	19.4	19.4
87.5°	0.0	0.0	3.2	3.2	3.2	6.5	6.5	6.5	6.5	6.5	6.5
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°	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4	4639.4
2.5°	4684.5	4694.2	4678.1	4674.9	4662.0	4700.7	4607.1	4584.5	4642.6	4587.8	4600.7
5°	4745.8	4768.4	4739.4	4691.0	4620.0	4510.3	4416.8	4294.2	4236.1	4194.2	4187.7
7.5°	4791.0	4807.1	4778.1	4623.2	4410.3	4132.9	3926.4	3774.7	3655.4	3619.9	3561.8
10°	4974.9	4978.1	4833.0	4491.0	4074.8	3710.2	3394.0	3161.7	3042.4	2968.2	2935.9
12.5°	5097.5	5091.1	4797.5	4229.6	3674.7	3190.8	2829.4	2548.8	2439.1	2403.6	2381.0
15°	5252.4	5216.9	4713.6	3961.9	3158.5	2635.9	2310.0	2116.4	2106.8	2084.2	2106.8
17.5°	5375.0	5275.0	4591.0	3474.7	2664.9	2171.3	1958.3	1971.3	1997.1	2019.6	2022.9
20°	5575.0	5368.5	4310.3	3048.8	2206.8	1861.6	1858.3	1916.4	1980.9	2006.7	2032.6
22.5°	5726.6	5407.2	4010.3	2593.9	1832.5	1735.7	1790.6	1877.7	1926.1	1951.9	1990.6
25°	5781.5	5300.8	3610.2	2139.0	1651.9	1677.7	1761.5	1819.6	1880.9	1910.0	1893.8
27.5°	5836.3	5245.9	3132.7	1761.5	1555.1	1638.9	1709.9	1768.0	1787.4	1826.1	1851.9
30°	5968.6	5055.6	2703.6	1522.8	1506.7	1613.1	1664.8	1684.1	1735.7	1758.3	1758.3
32.5°	6075.1	4981.4	2248.7	1409.9	1500.2	1626.0	1632.5	1632.5	1638.9	1622.8	1616.4
35°	6294.5	4726.5	1842.2	1342.1	1497.0	1629.3	1645.4	1590.6	1442.1	1384.1	1367.9
37.5°	6565.5	4561.9	1542.2	1326.0	1519.6	1668.0	1693.8	1487.3	1293.7	1200.2	1184.0
40°	6894.5	4445.8	1345.4	1319.5	1571.2	1758.3	1680.9	1406.7	1155.0	1019.5	1013.0
42.5°	7278.5	4339.3	1213.1	1316.3	1635.7	1851.9	1668.0	1338.9	1013.0	922.7	935.6
45°	7585.0	4281.3	1122.7	1293.7	1658.3	1906.7	1677.7	1219.5	955.0	896.9	903.4
47.5°	7823.7	4158.7	1048.5	1255.0	1655.1	1926.1	1590.6	1171.1	925.9	942.1	958.2
50°	7830.2	3994.1	955.0	1171.1	1606.7	1890.6	1490.5	1126.0	919.5	987.2	1019.5
52.5°	7743.1	3761.8	855.0	1051.8	1493.8	1768.0	1400.2	1106.6	890.5	884.0	922.7
55°	7433.3	3326.3	687.2	851.7	1261.5	1458.3	1319.5	1071.1	803.3	729.1	735.6
57.5°	6007.3	2384.2	506.5	609.8	893.7	1067.9	1190.5	1055.0	722.7	619.4	622.7
60°	3719.9	1351.8	371.0	416.2	551.7	648.5	964.7	980.8	645.3	522.7	516.2
62.5°	1910.0	667.8	287.1	293.6	338.8	380.7	661.4	822.7	584.0	496.8	496.8
65°	638.8	329.1	251.6	225.8	225.8	235.5	400.1	571.1	493.6	416.2	416.2
67.5°	274.2	245.2	219.4	196.8	180.7	171.0	225.8	332.3	367.8	316.2	303.3
70°	212.9	206.5	190.4	164.5	142.0	129.1	132.3	171.0	209.7	203.3	196.8
72.5°	158.1	158.1	151.6	129.1	109.7	93.6	87.1	90.3	100.0	103.2	106.5
75°	109.7	112.9	112.9	100.0	80.7	67.8	58.1	48.4	38.7	32.3	29.0
77.5°	74.2	77.4	83.9	74.2	61.3	45.2	35.5	25.8	16.1	6.5	6.5
80°	64.5	74.2	80.7	74.2	64.5	48.4	35.5	19.4	9.7	0.0	0.0
82.5°	67.8	74.2	83.9	71.0	61.3	45.2	35.5	22.6	9.7	3.2	0.0
85°	16.1	16.1	19.4	22.6	29.0	32.3	25.8	16.1	9.7	3.2	0.0
87.5°	6.5	6.5	6.5	6.5	6.5	3.2	3.2	3.2	3.2	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)