

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: P528904

Luminaire Tested: **GALN-SA4A-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15207 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

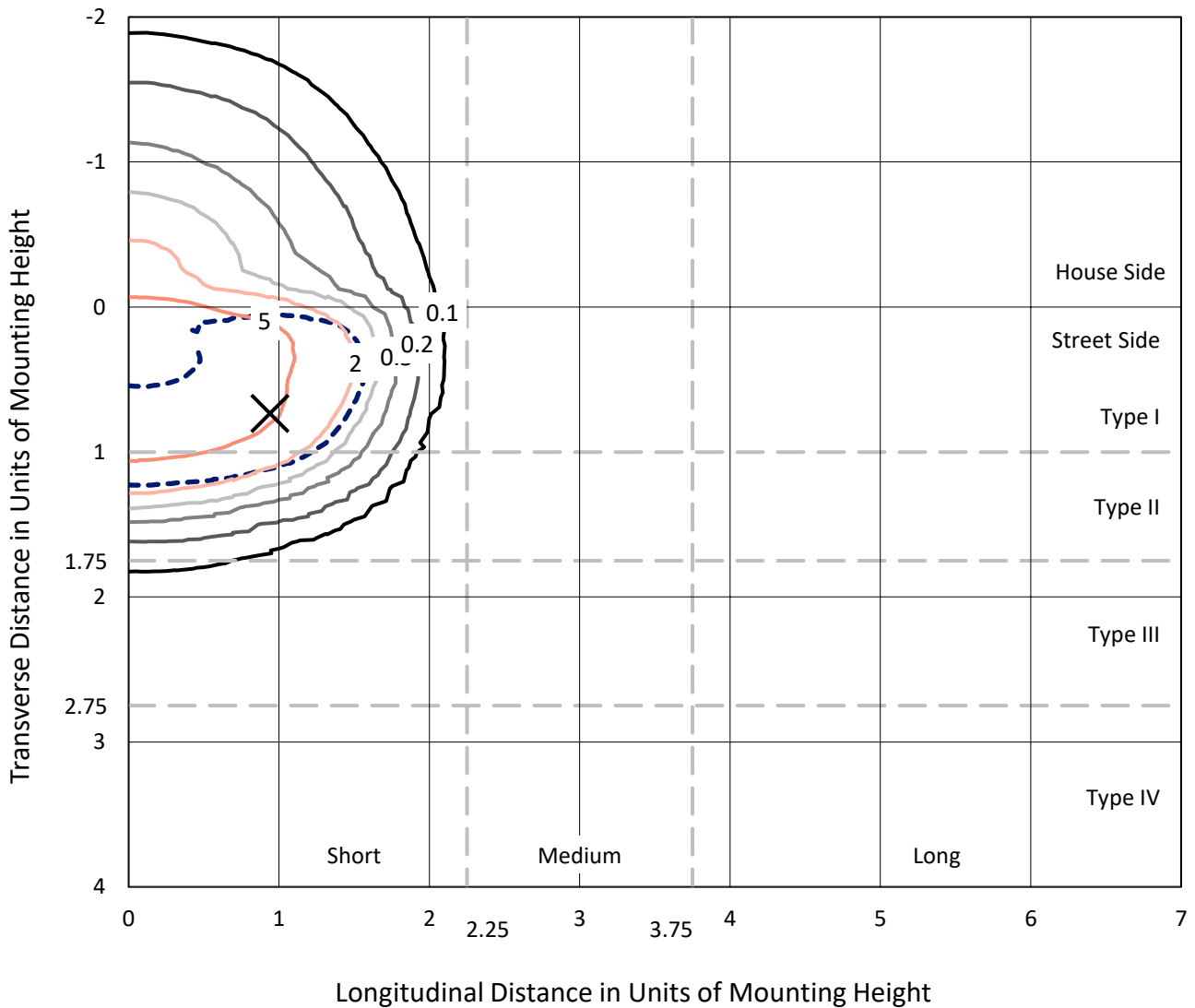
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

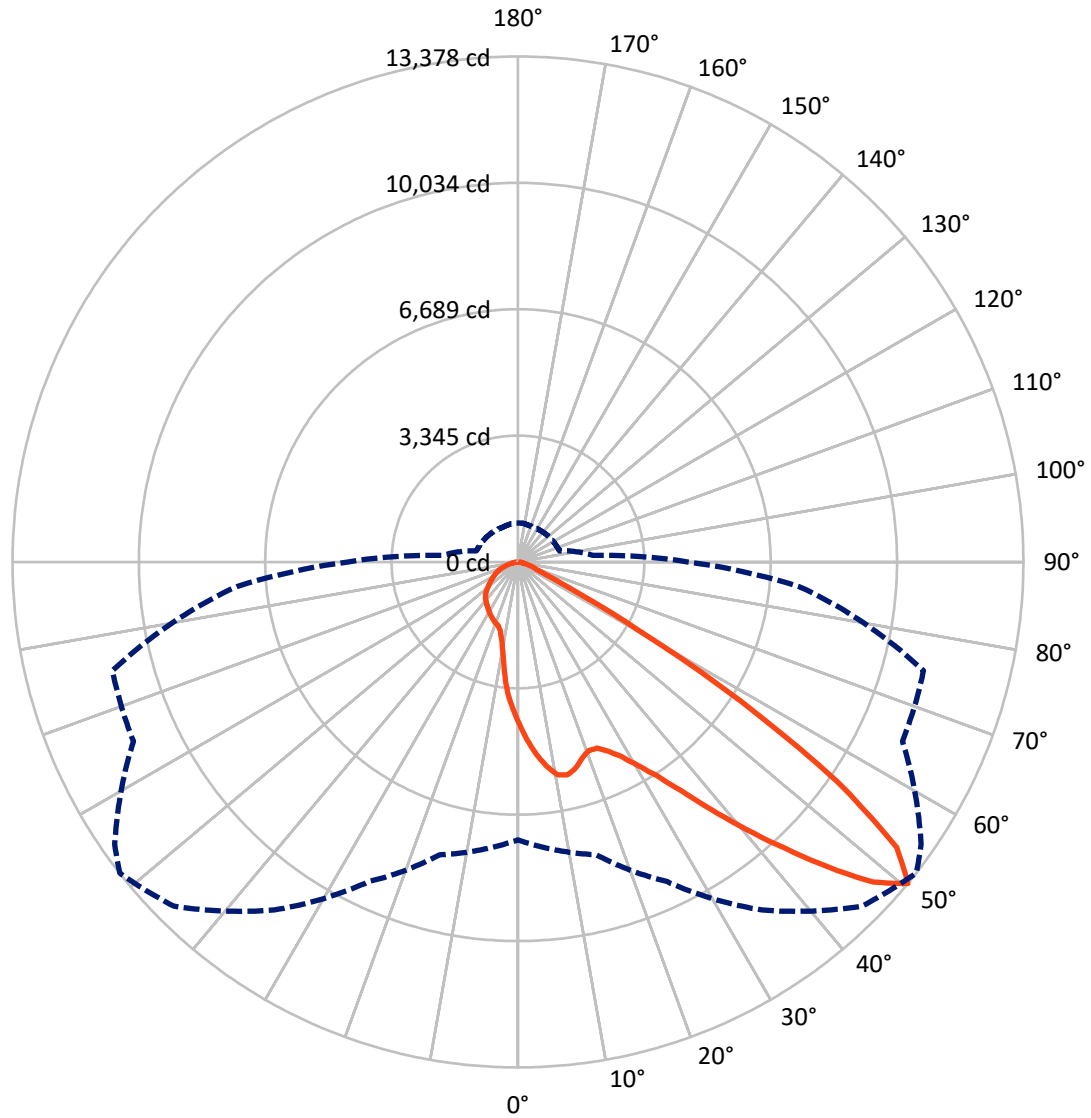
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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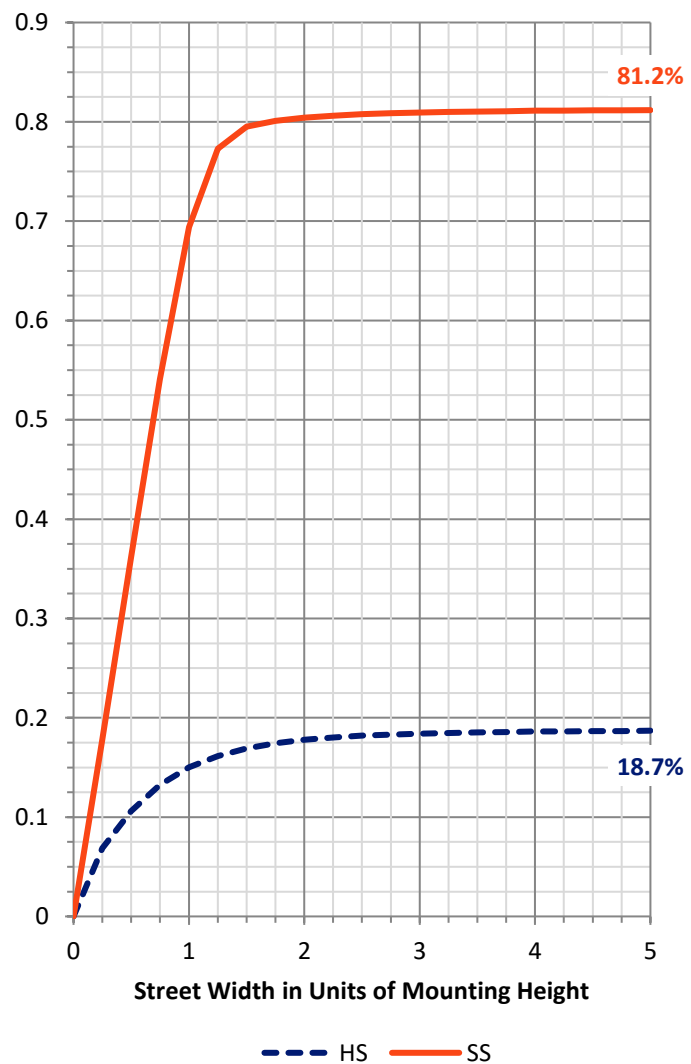
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2858.6	0.0	2858.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12348.5	0.0	12348.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	15207.0	0.0	15207.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.1	2.6
10°-20°	1059.0	7.0
20°-30°	1783.8	11.7
30°-40°	2993.3	19.7
40°-50°	4579.0	30.1
50°-60°	3338.5	22.0
60°-70°	743.0	4.9
70°-80°	268.0	1.8
80°-90°	47.4	0.3
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°	15207.0	100.0
0°-180°	15207.0	100.0



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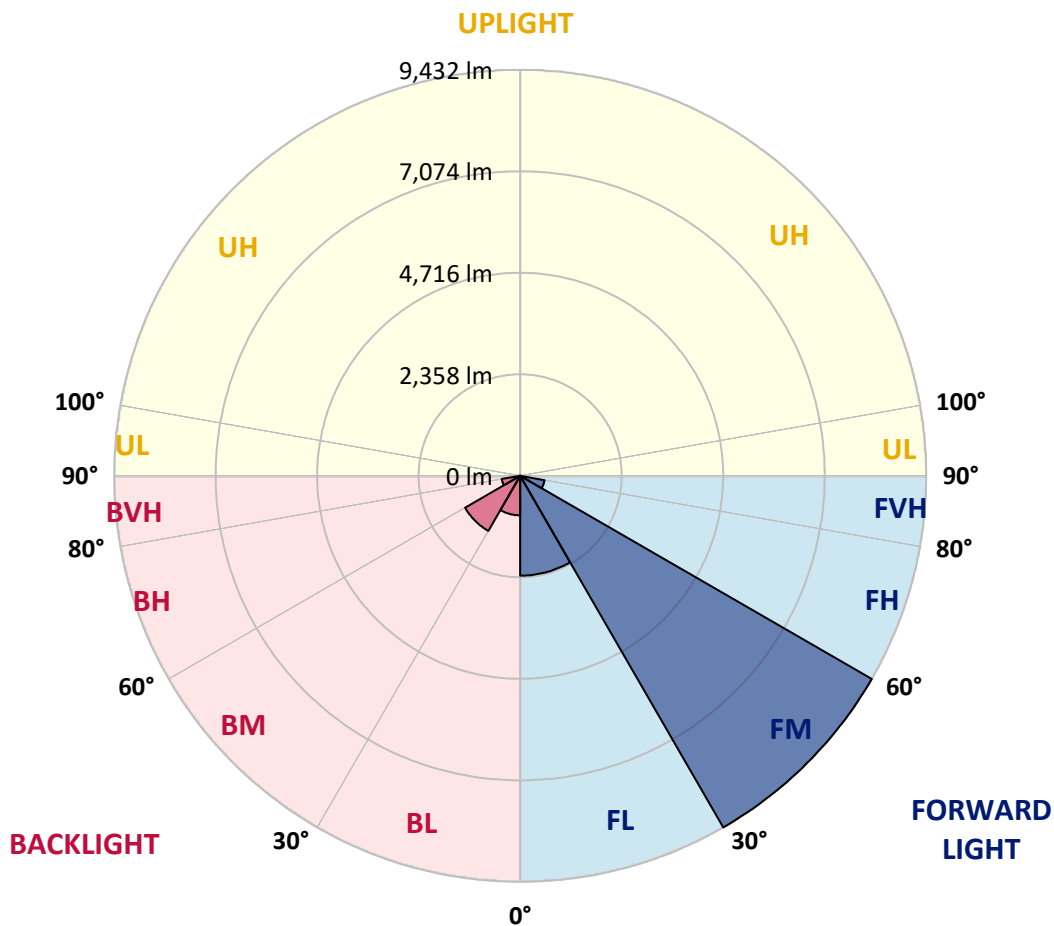
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.6	15.3			
FM (30°-60°)	9432.2	62.0			
FH (60°-80°)	575.4	3.8			G0/660
FVH (80°-90°)	21.3	0.1			G1/100
BL (0°-30°)	918.2	6.0	B2/1000		
BM (30°-60°)	1478.6	9.7	B2/2500		
BH (60°-80°)	435.5	2.9	B1/500		G1/500
BVH (80°-90°)	26.2	0.2			G1/100
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°	52°	55°	65°	75°	85°
0°	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6
2.5°	5047.2	4950.0	4961.0	4891.4	4816.2	4794.2	4717.3	4644.0	4589.0	4471.7	4363.6
5°	5516.3	5487.0	5443.0	5388.0	5331.2	5191.9	5113.1	5021.5	4819.9	4638.5	4458.9
7.5°	5584.1	5578.6	5602.5	5602.5	5622.6	5569.5	5457.7	5393.5	5179.1	4884.0	4550.5
10°	5107.6	5124.1	5239.6	5389.9	5598.8	5743.6	5725.2	5708.7	5474.2	5071.0	4658.6
12.5°	4728.3	4691.6	4759.4	4887.7	5201.1	5551.1	5787.6	5789.4	5728.9	5369.7	4737.4
15°	4513.9	4539.5	4557.8	4618.3	4854.7	5259.7	5675.8	5798.5	6064.3	5580.5	4862.1
17.5°	4651.3	4565.2	4561.5	4576.2	4697.1	5001.3	5468.7	5679.4	6247.6	5851.7	5016.0
20°	4830.9	4829.1	4777.8	4759.4	4757.6	5028.8	5333.1	5618.9	6344.7	6203.6	5171.8
22.5°	5146.1	5146.1	5061.8	5021.5	4935.4	5157.1	5351.4	5545.6	6506.0	6445.5	5246.9
25°	5673.9	5587.8	5443.0	5344.0	5294.6	5373.4	5545.6	5719.7	6647.1	6702.1	5402.7
27.5°	6161.4	6025.8	5954.3	5783.9	5717.9	5672.1	5829.7	6005.6	6812.0	7101.6	5487.0
30°	6714.9	6691.1	6562.8	6342.9	6179.7	6095.4	6240.2	6414.3	7114.4	7510.3	5681.3
32.5°	7704.5	7488.3	7314.2	7044.8	6779.0	6599.4	6742.4	6857.8	7616.6	7937.3	5893.8
35°	8773.0	8703.3	8402.8	7917.1	7510.3	7349.0	7433.3	7519.4	8201.2	8589.7	6251.2
37.5°	9823.1	9727.8	9480.4	9071.7	8576.9	8248.8	8309.3	8410.1	8857.3	9469.4	6687.4
40°	10578.1	10460.8	10336.2	10275.7	9784.6	9335.6	9300.8	9326.4	9744.3	10294.1	7171.2
42.5°	10633.1	10777.9	10816.4	11060.1	10944.7	10576.3	10361.9	10367.4	10591.0	11109.6	7660.5
45°	10517.7	10383.9	10667.9	11333.2	11714.4	11886.7	11525.6	11479.8	11115.1	11582.4	7904.3
47.5°	9306.3	9342.9	9823.1	10875.0	11976.5	12746.2	12661.9	12509.8	11395.5	11565.9	7865.8
50°	7356.3	7578.1	8023.4	9333.8	11243.4	12881.8	13378.4	13026.6	11228.7	11111.4	7473.6
52.5°	4898.7	4990.3	5283.6	6975.1	9040.5	11514.6	12553.7	12634.4	11074.8	10515.8	6977.0
55°	2180.9	2173.5	2585.9	3643.3	5672.1	8762.0	10257.4	10748.6	10482.8	9909.2	6493.1
57.5°	923.7	954.8	1123.4	1574.3	2789.3	5287.2	6949.5	7380.1	8061.9	8137.0	4981.2
60°	624.9	628.6	674.4	788.0	1167.4	2483.3	3645.2	4162.0	4649.5	4616.5	2642.7
62.5°	491.2	504.0	538.8	584.6	692.7	1127.1	1631.1	1918.8	1950.0	1640.2	1002.5
65°	419.7	421.5	456.3	494.8	542.5	656.1	786.2	800.9	810.0	780.7	736.7
67.5°	346.4	350.0	377.5	421.5	465.5	502.1	538.8	557.1	599.3	681.8	670.8
70°	274.9	280.4	304.2	340.9	381.2	403.2	449.0	465.5	504.0	568.1	593.8
72.5°	208.9	210.8	230.9	256.6	293.2	315.2	353.7	372.0	397.7	452.7	476.5
75°	150.3	155.8	170.4	183.3	188.8	203.4	240.1	260.2	296.9	320.7	322.5
77.5°	78.8	82.5	86.1	86.1	104.5	132.0	155.8	166.8	192.4	210.8	201.6
80°	31.2	33.0	42.2	56.8	73.3	95.3	111.8	117.3	139.3	150.3	155.8
82.5°	18.3	20.2	27.5	40.3	53.1	67.8	80.6	86.1	100.8	113.6	117.3
85°	9.2	11.0	16.5	25.7	34.8	42.2	40.3	38.5	38.5	36.7	38.5
87.5°	3.7	3.7	5.5	5.5	5.5	7.3	9.2	9.2	9.2	11.0	11.0
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°	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6	4286.6
2.5°	4292.1	4218.8	4151.0	4026.4	3890.7	3852.3	3694.7	3637.8	3597.5	3549.9	3535.2
5°	4314.1	4217.0	3998.9	3747.8	3548.0	3291.5	3122.9	2941.4	2809.5	2776.5	2767.3
7.5°	4359.9	4193.1	3817.4	3438.1	3029.4	2681.2	2415.5	2272.5	2146.0	2138.7	2125.9
10°	4411.2	4121.7	3619.5	3023.9	2501.6	2179.0	2019.6	1957.3	1926.1	1918.8	1915.1
12.5°	4453.4	4107.0	3397.8	2620.7	2127.7	1933.5	1885.8	1880.3	1893.1	1896.8	1904.1
15°	4471.7	4048.4	3130.2	2259.7	1895.0	1823.5	1843.7	1865.7	1874.8	1898.6	1880.3
17.5°	4506.5	3973.2	2800.3	1973.8	1764.9	1777.7	1812.5	1838.2	1852.8	1869.3	1845.5
20°	4524.8	3905.4	2490.6	1803.3	1719.0	1742.9	1790.5	1810.7	1829.0	1836.3	1808.8
22.5°	4508.4	3766.1	2217.5	1665.9	1675.1	1706.2	1748.4	1770.4	1759.4	1730.0	1713.5
25°	4464.4	3570.0	1933.5	1577.9	1612.7	1667.7	1700.7	1684.2	1664.1	1647.6	1642.1
27.5°	4462.5	3330.0	1728.2	1497.3	1559.6	1634.7	1623.7	1609.1	1618.2	1605.4	1590.8
30°	4471.7	3097.2	1559.6	1451.5	1521.1	1557.8	1570.6	1555.9	1566.9	1543.1	1550.4
32.5°	4424.1	2870.0	1449.6	1398.3	1475.3	1473.5	1515.6	1526.6	1501.0	1451.5	1458.8
35°	4444.2	2686.7	1356.2	1374.5	1424.0	1424.0	1457.0	1444.1	1376.3	1347.0	1354.3
37.5°	4583.5	2507.1	1310.4	1341.5	1374.5	1389.2	1378.2	1323.2	1306.7	1306.7	1310.4
40°	4715.4	2353.1	1282.9	1334.2	1328.7	1337.8	1257.2	1262.7	1262.7	1264.5	1255.4
42.5°	4832.7	2248.7	1260.9	1290.2	1299.4	1251.7	1202.2	1196.7	1209.6	1207.7	1200.4
45°	4874.9	2162.5	1229.7	1240.7	1248.0	1169.2	1145.4	1134.4	1149.1	1154.6	1161.9
47.5°	4713.6	2091.1	1194.9	1172.9	1158.2	1106.9	1075.8	1055.6	1073.9	1105.1	1112.4
50°	4506.5	1997.6	1139.9	1097.8	1066.6	1044.6	1022.6	1002.5	1015.3	1037.3	1031.8
52.5°	4200.5	1851.0	1070.3	1026.3	973.1	978.6	958.5	947.5	954.8	954.8	949.3
55°	3764.3	1521.1	953.0	921.8	877.8	892.5	896.2	881.5	866.9	879.7	868.7
57.5°	2569.4	1073.9	850.4	850.4	806.4	826.5	824.7	789.9	755.1	758.7	751.4
60°	1486.3	855.9	784.4	777.0	731.2	747.7	751.4	727.6	674.4	678.1	670.8
62.5°	844.9	731.2	685.4	674.4	665.3	679.9	679.9	648.8	602.9	606.6	599.3
65°	718.4	678.1	612.1	610.3	606.6	610.3	595.6	562.6	522.3	505.8	507.6
67.5°	652.4	626.8	562.6	546.1	535.1	533.3	505.8	474.7	456.3	441.7	439.8
70°	571.8	551.6	504.0	482.0	471.0	445.3	417.8	397.7	372.0	364.7	372.0
72.5°	452.7	450.8	432.5	408.7	384.9	364.7	340.9	313.4	289.6	284.1	271.2
75°	313.4	317.1	320.7	317.1	296.9	271.2	243.7	221.8	192.4	175.9	172.3
77.5°	205.3	210.8	216.3	208.9	196.1	172.3	153.9	126.5	104.5	91.6	89.8
80°	150.3	157.6	161.3	155.8	141.1	122.8	102.6	80.6	64.1	53.1	53.1
82.5°	115.5	122.8	126.5	117.3	102.6	88.0	73.3	56.8	44.0	34.8	33.0
85°	40.3	38.5	45.8	47.6	56.8	53.1	44.0	33.0	25.7	18.3	16.5
87.5°	11.0	11.0	12.8	12.8	11.0	9.2	9.2	9.2	7.3	5.5	5.5
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)