

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: P646889

Luminaire Tested: **GALN-SA4C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18423.2 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

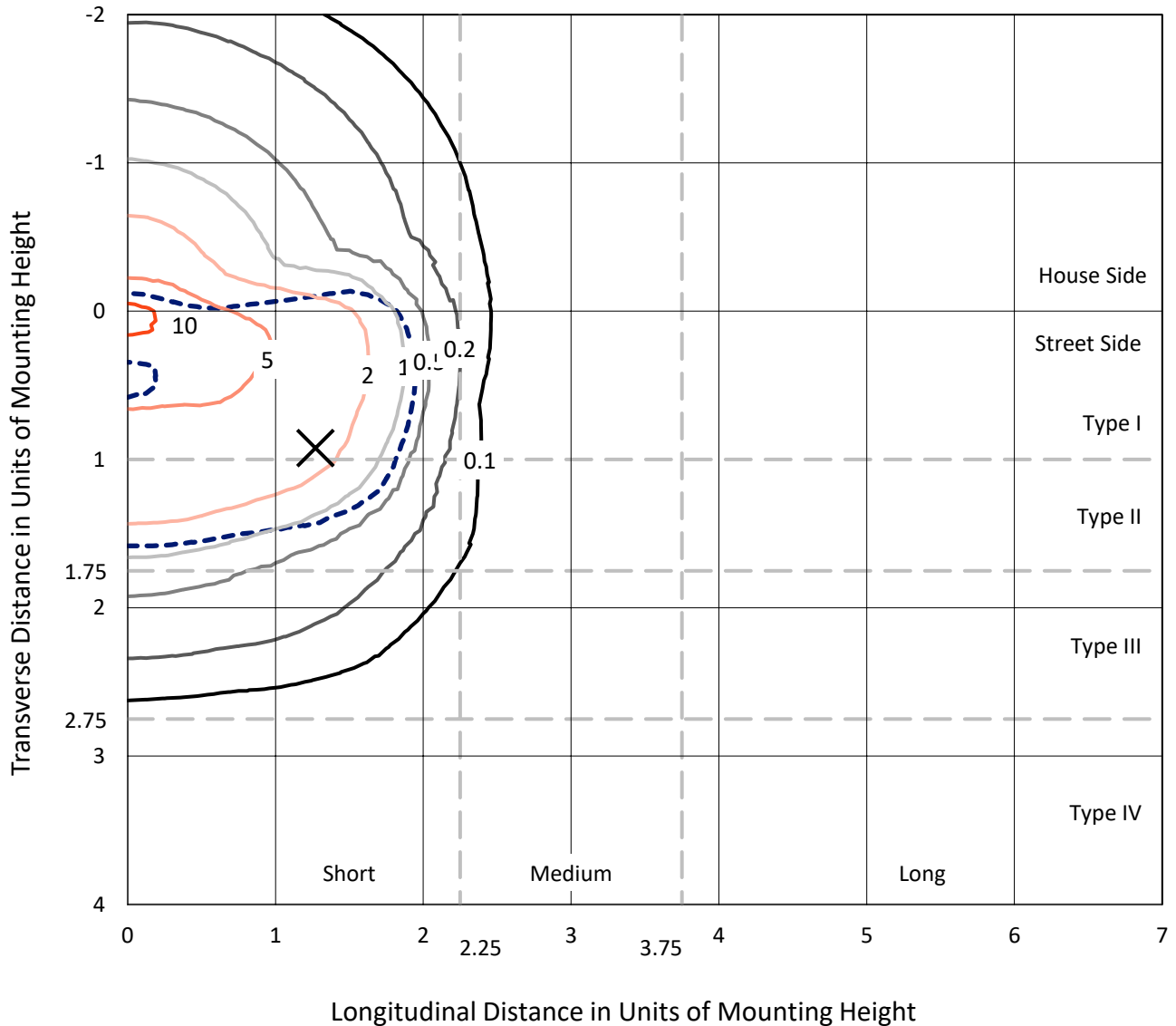
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

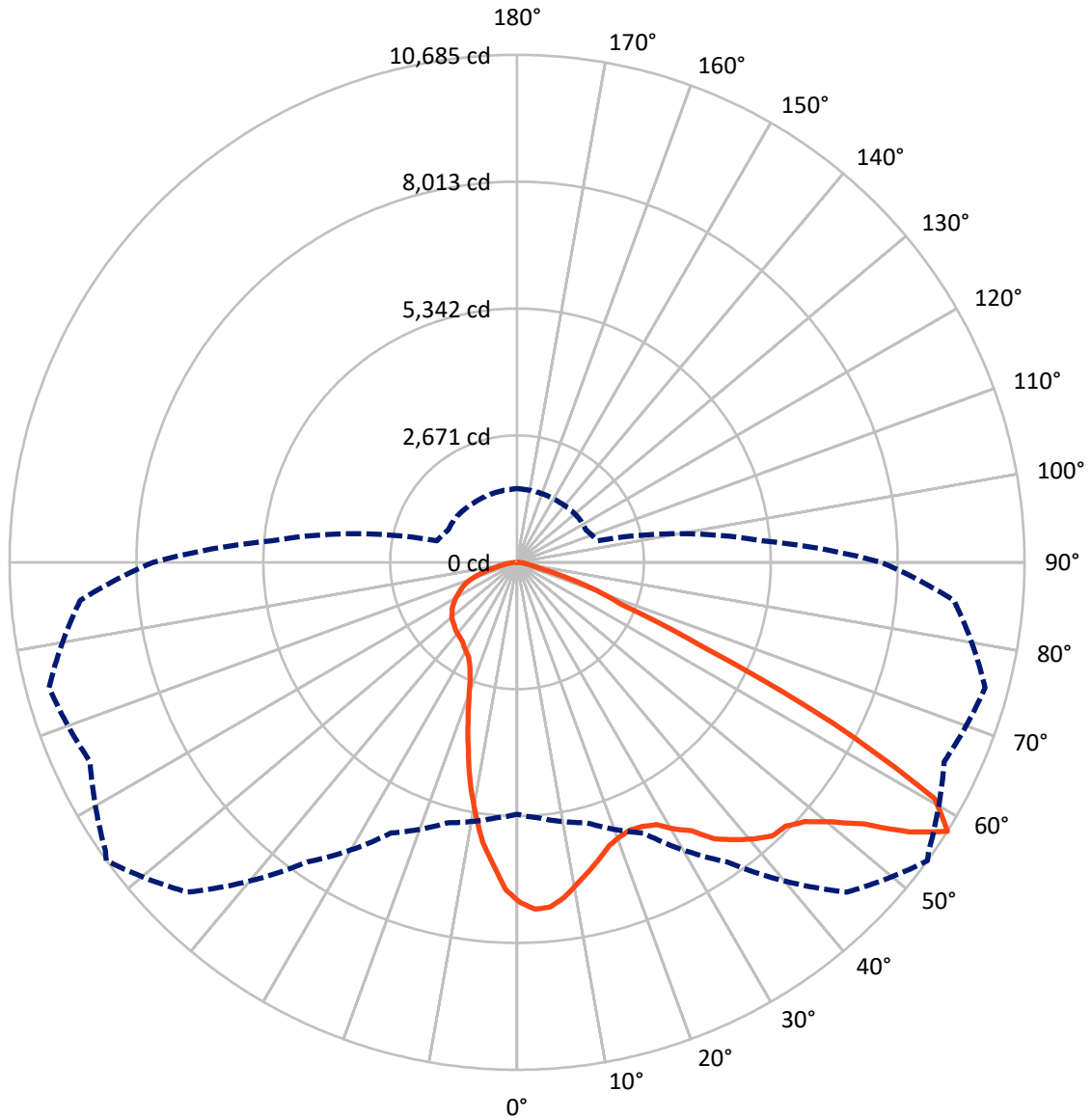
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5096.9	0.0	5096.9
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	13326.3	0.0	13326.3
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	18423.2	0.0	18423.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.6	3.4
10°-20°	1429.9	7.8
20°-30°	2009.0	10.9
30°-40°	2808.6	15.2
40°-50°	3802.3	20.6
50°-60°	4631.3	25.1
60°-70°	2412.2	13.1
70°-80°	618.1	3.4
80°-90°	94.3	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°	18423.2	100.0
0°-180°	18423.2	100.0



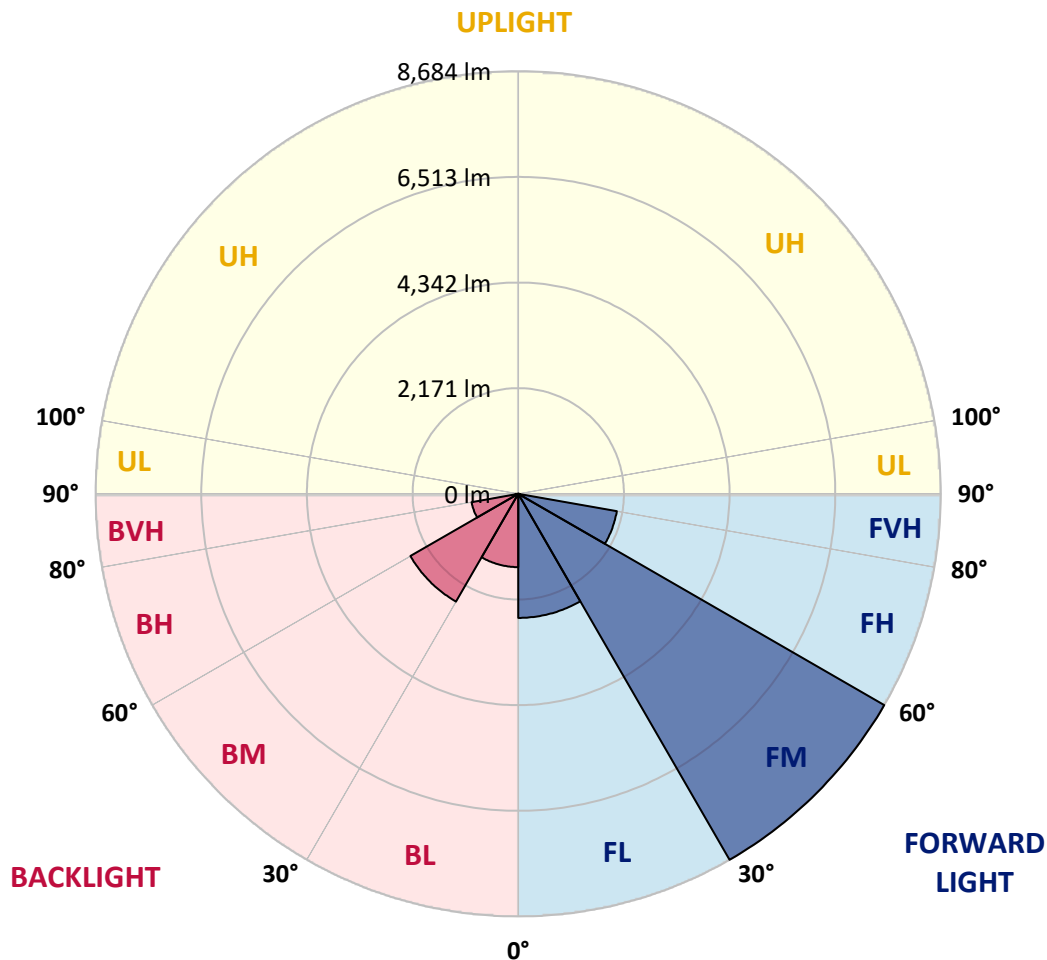
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2550.0	13.8			
FM (30°-60°)	8684.1	47.1			
FH (60°-80°)	2056.5	11.2			G2/5000
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	1506.4	8.2	B3/2500		
BM (30°-60°)	2558.1	13.9	B3/5000		
BH (60°-80°)	973.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	58.7	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9
2.5°	7364.5	7336.2	7340.9	7378.8	7331.4	7312.4	7312.4	7220.1	7227.2	7163.3	7146.7
5°	7194.0	7127.7	7172.7	7229.6	7239.1	7257.9	7288.8	7265.1	7198.7	7130.1	7018.8
7.5°	6748.8	6808.0	6824.6	6864.9	6950.1	7028.3	7125.4	7059.1	7056.7	6988.0	6921.7
10°	6358.1	6322.6	6412.6	6471.8	6613.8	6744.1	6893.3	6886.2	6921.7	6843.6	6729.9
12.5°	5969.7	5941.3	5984.0	6119.0	6317.9	6507.3	6684.9	6618.6	6808.0	6793.9	6550.0
15°	5557.7	5579.0	5640.7	5766.1	6026.6	6253.9	6478.9	6481.3	6649.4	6706.2	6379.4
17.5°	5268.8	5245.2	5323.3	5510.4	5742.4	6014.8	6270.5	6322.6	6580.7	6613.8	6327.3
20°	5053.3	5086.5	5188.3	5283.1	5550.6	5879.8	6168.7	6187.7	6566.6	6656.5	6244.5
22.5°	5001.3	4982.3	5015.4	5169.4	5389.6	5747.2	6114.2	6185.2	6564.1	6642.3	6088.1
25°	4946.8	5008.4	5006.0	5159.9	5321.0	5640.7	6159.2	6237.4	6689.6	6715.7	6109.5
27.5°	5069.9	5062.8	5129.1	5140.9	5339.9	5669.1	6253.9	6313.2	6898.1	6876.7	6126.0
30°	5193.1	5157.5	5197.8	5337.5	5429.9	5832.4	6514.4	6509.7	7168.0	7153.8	6178.2
32.5°	5344.6	5328.1	5354.1	5477.2	5633.5	6050.3	6734.7	6874.3	7442.6	7532.7	6358.1
35°	5373.0	5441.7	5503.2	5669.1	5891.6	6403.1	7149.0	7265.1	7760.0	8041.8	6701.5
37.5°	5553.0	5579.0	5723.5	6017.1	6220.8	6874.3	7411.9	7485.3	8048.9	8368.5	7063.8
40°	5744.8	5775.6	5993.5	6301.3	6580.7	7182.2	7658.2	7681.9	8141.2	8619.6	7300.6
42.5°	6005.3	6033.7	6249.2	6635.2	7009.3	7445.1	7876.0	7902.1	8134.1	8908.5	7677.1
45°	6275.3	6343.9	6597.3	7035.4	7371.6	7752.9	7925.8	8032.3	8200.4	9166.6	7982.6
47.5°	6654.2	6718.1	6926.4	7355.0	7748.2	8022.9	8155.5	8259.6	8359.1	9391.5	8179.1
50°	7056.7	7068.5	7321.9	7710.3	7999.2	8328.3	8584.1	8619.6	8567.5	9652.0	8513.0
52.5°	7352.7	7390.6	7587.1	7966.0	8397.0	8801.9	9152.4	9190.3	9088.4	9749.1	8626.7
55°	6862.5	6841.2	7160.9	7665.3	8664.6	9507.6	10016.7	10045.1	9467.3	10049.9	8998.5
57.5°	5304.4	5406.2	5678.5	6287.1	7698.5	9820.2	10684.5	10582.7	9922.0	10201.4	9235.3
60°	3855.1	3831.5	4013.8	4421.1	5801.6	8463.3	10102.0	10206.2	9550.3	9195.0	7615.5
62.5°	3140.0	3106.9	3121.0	3135.3	3743.8	5616.9	7478.2	7475.8	7355.0	6609.1	5136.2
65°	2510.1	2588.2	2595.3	2701.9	2780.0	3355.5	4333.5	4565.5	3975.9	3260.7	2365.7
67.5°	1892.0	1863.6	1958.4	2337.3	2484.1	2422.4	2365.7	2391.7	1700.2	1226.6	1155.6
70°	1115.3	1103.5	1217.2	1629.2	2046.0	1925.2	1783.1	1785.5	1167.5	857.2	954.3
72.5°	611.0	608.5	632.3	826.5	1162.7	1207.7	1070.4	1103.5	696.2	693.8	746.0
75°	341.0	333.9	326.8	364.6	419.1	442.8	452.3	457.0	478.3	535.2	556.5
77.5°	125.5	120.7	120.7	139.7	177.6	222.6	281.8	286.5	338.6	388.4	409.7
80°	42.6	47.4	64.0	87.6	118.4	158.6	191.8	196.5	239.2	272.3	279.5
82.5°	26.1	28.4	42.6	61.5	85.3	111.3	142.1	144.5	177.6	198.9	208.4
85°	11.8	14.2	23.6	37.9	54.5	73.4	75.8	75.8	73.4	75.8	71.0
87.5°	0.0	0.0	4.7	4.7	4.7	7.1	9.5	7.1	11.8	14.2	14.2
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°	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9	7160.9
2.5°	7097.0	7070.9	6990.4	6919.4	6898.1	6803.3	6663.6	6680.2	6578.4	6625.7	6576.0
5°	6999.9	6912.2	6706.2	6618.6	6388.9	6284.7	6213.7	6036.1	5953.2	5936.6	5865.6
7.5°	6751.3	6696.8	6438.6	6201.8	5957.9	5749.6	5481.9	5299.7	5169.4	5133.9	5029.7
10°	6554.6	6433.9	6076.3	5716.4	5368.3	5006.0	4657.9	4385.6	4252.9	4099.0	4046.9
12.5°	6360.5	6178.2	5695.1	5233.3	4783.4	4326.4	3904.9	3573.4	3284.5	3215.8	3192.1
15°	6239.7	5922.4	5354.1	4797.6	4158.3	3561.5	3140.0	2922.2	2744.6	2671.1	2723.2
17.5°	6081.1	5711.7	5027.3	4286.1	3582.9	3033.4	2680.6	2545.6	2481.7	2488.8	2467.5
20°	5882.1	5512.7	4598.7	3822.0	3069.0	2630.9	2429.6	2379.9	2389.3	2405.9	2398.8
22.5°	5740.1	5271.2	4288.5	3348.3	2652.2	2408.3	2325.4	2289.9	2320.7	2334.8	2323.0
25°	5631.2	5065.2	3911.9	2929.2	2410.6	2282.8	2244.9	2242.5	2289.9	2308.8	2297.0
27.5°	5531.7	4873.4	3537.8	2609.6	2249.6	2185.7	2173.8	2202.3	2233.0	2252.0	2268.6
30°	5472.5	4726.6	3187.4	2342.0	2169.1	2138.3	2117.0	2143.1	2159.7	2178.5	2169.1
32.5°	5529.3	4622.4	2848.7	2190.4	2102.8	2072.1	2100.4	2083.9	2112.3	2128.8	2102.8
35°	5706.9	4530.0	2607.2	2109.9	2027.0	2038.9	2043.6	2036.5	2048.3	2034.2	2064.9
37.5°	5882.1	4496.8	2384.6	2041.2	1991.5	1991.5	1986.8	1972.5	1996.3	1991.5	2005.7
40°	6104.7	4518.1	2195.1	1967.8	1958.4	1953.6	1934.6	1932.3	1922.8	1925.2	1929.9
42.5°	6298.9	4565.5	2086.2	1920.5	1927.6	1937.1	1901.5	1873.1	1884.9	1861.3	1861.3
45°	6504.9	4608.2	1989.1	1887.3	1880.2	1877.9	1849.4	1832.8	1823.4	1825.7	1847.0
47.5°	6829.4	4669.7	1915.8	1842.3	1847.0	1811.5	1804.4	1783.1	1792.6	1806.8	1809.2
50°	7059.1	4799.9	1858.9	1790.3	1806.8	1783.1	1740.5	1731.1	1731.1	1754.7	1750.0
52.5°	7220.1	4982.3	1804.4	1733.4	1740.5	1721.6	1707.3	1686.0	1671.8	1705.0	1721.6
55°	7712.6	5285.4	1790.3	1686.0	1683.7	1664.7	1638.7	1617.4	1610.2	1615.0	1648.1
57.5°	7665.3	5190.7	1745.2	1603.1	1598.4	1572.3	1546.3	1539.2	1536.9	1541.6	1551.0
60°	6223.1	3833.8	1558.2	1508.4	1501.3	1496.6	1470.6	1442.1	1427.9	1442.1	1430.3
62.5°	4118.0	2566.9	1373.5	1394.8	1399.5	1387.6	1345.0	1316.6	1321.4	1337.9	1311.9
65°	2022.3	1508.4	1245.6	1302.4	1307.1	1274.0	1233.8	1200.6	1184.0	1198.2	1186.4
67.5°	1155.6	1153.2	1141.4	1200.6	1198.2	1165.1	1101.1	1072.7	1044.3	1049.1	1041.9
70°	980.4	999.3	1023.0	1058.5	1056.1	1018.2	942.5	921.1	880.9	876.2	864.4
72.5°	772.0	805.2	857.2	883.3	861.9	814.6	764.8	729.4	693.8	672.5	679.6
75°	573.1	620.4	648.9	665.4	632.3	606.2	566.0	523.4	480.7	461.7	454.7
77.5°	416.8	431.0	457.0	468.9	447.6	421.5	397.8	355.2	314.9	288.9	281.8
80°	291.3	300.8	319.7	319.7	319.7	307.9	277.0	234.4	208.4	184.7	179.9
82.5°	203.7	213.1	232.1	222.6	220.3	206.0	187.1	153.9	125.5	108.9	104.2
85°	71.0	78.1	94.7	113.7	120.7	118.4	106.6	85.3	66.3	54.5	49.7
87.5°	16.6	16.6	18.9	16.6	16.6	18.9	16.6	16.6	16.6	11.8	9.5
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)