

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: P531191

Luminaire Tested: **GALN-SA6C-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26009 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

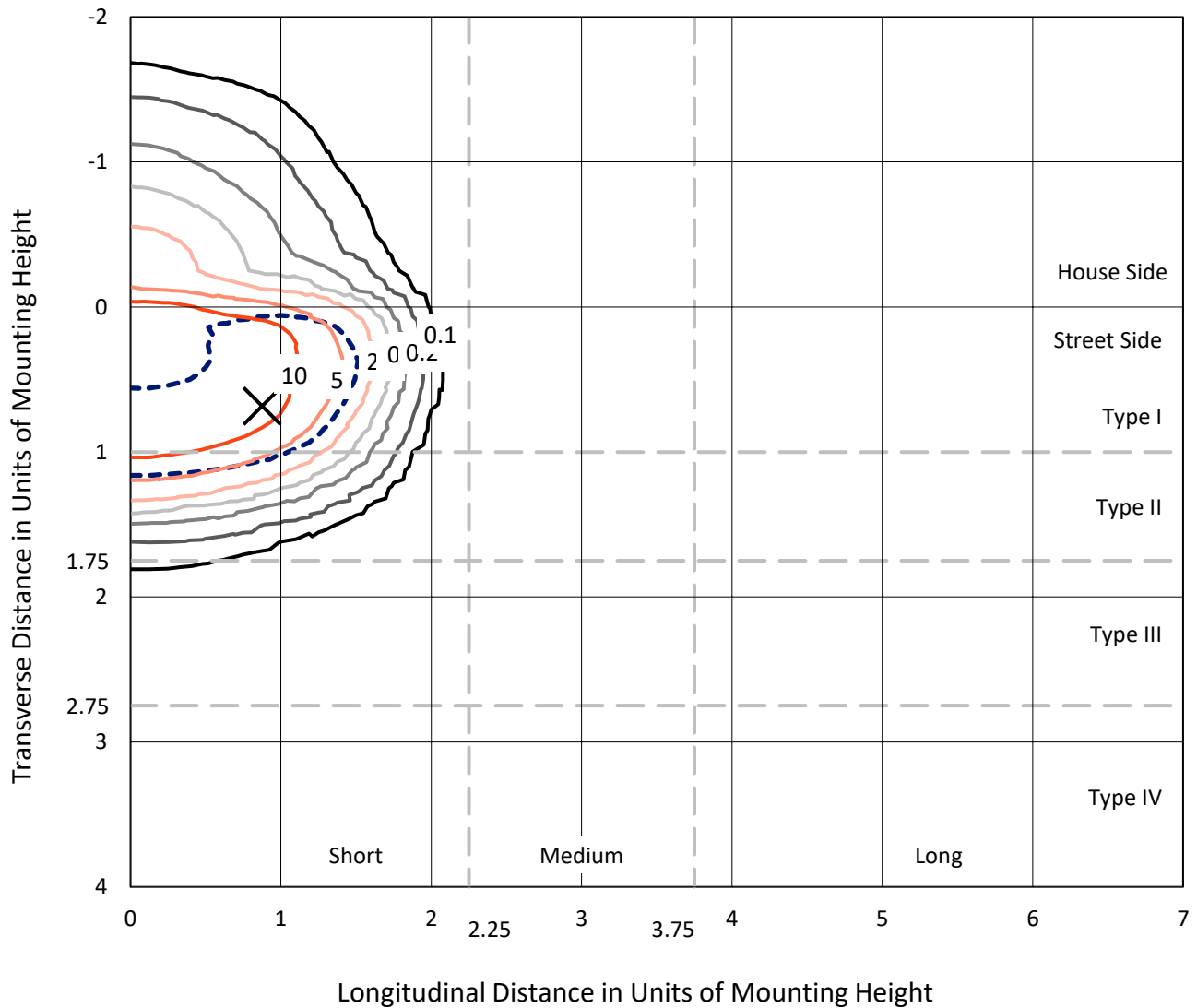
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

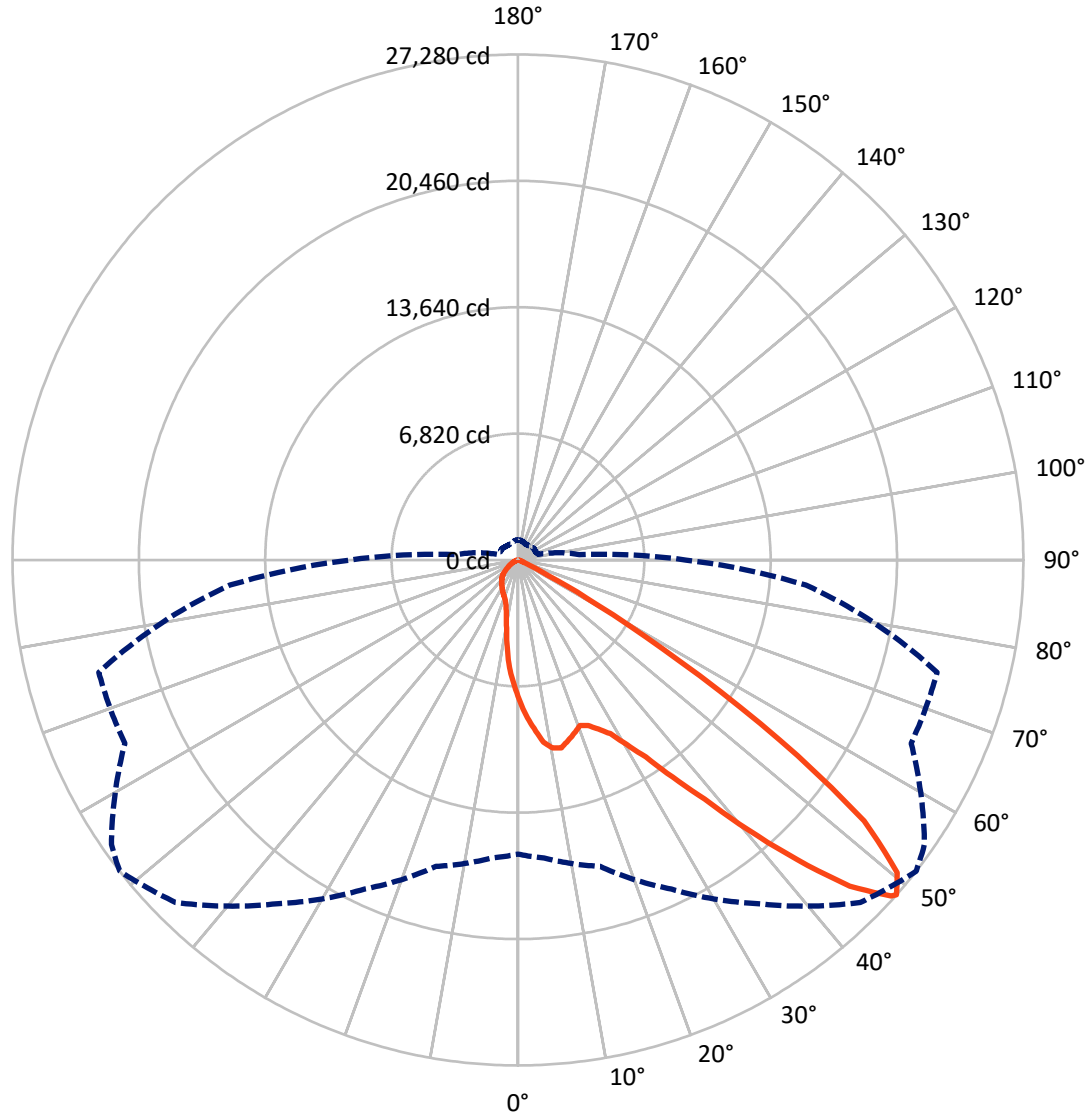
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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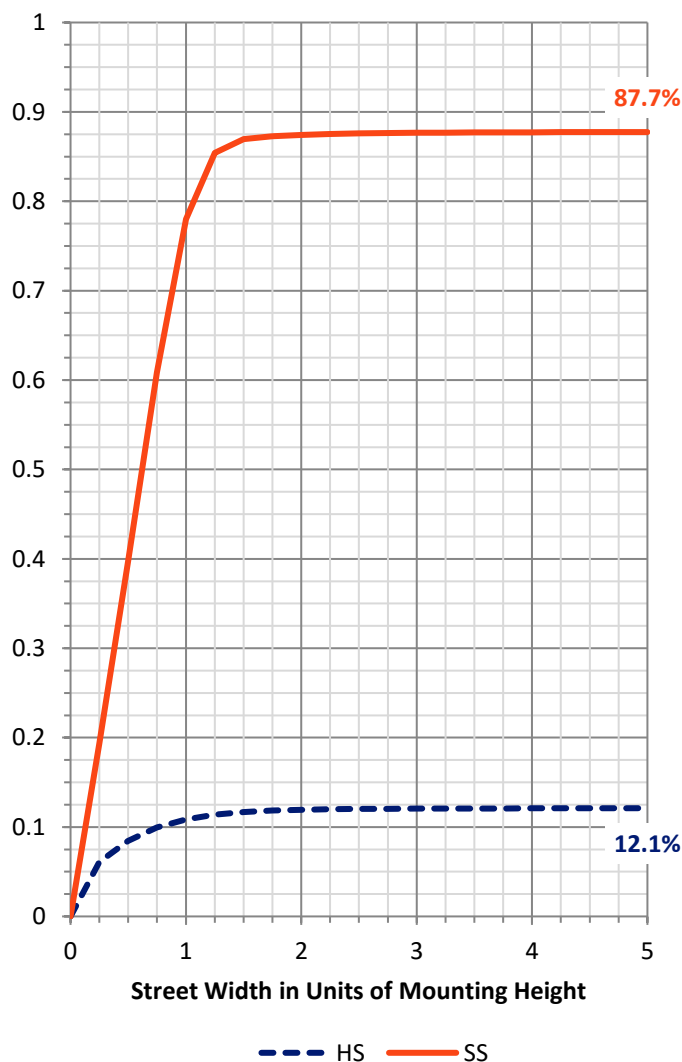
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3166.8	0.0	3166.8
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	22842.2	0.0	22842.2
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	26009.0	0.0	26009.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.5	2.6
10°-20°	1796.6	6.9
20°-30°	3067.5	11.8
30°-40°	5648.9	21.7
40°-50°	8772.7	33.7
50°-60°	5279.7	20.3
60°-70°	610.6	2.3
70°-80°	118.2	0.5
80°-90°	27.3	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°	26009.0	100.0
0°-180°	26009.0	100.0

**Coefficient of Utilization**

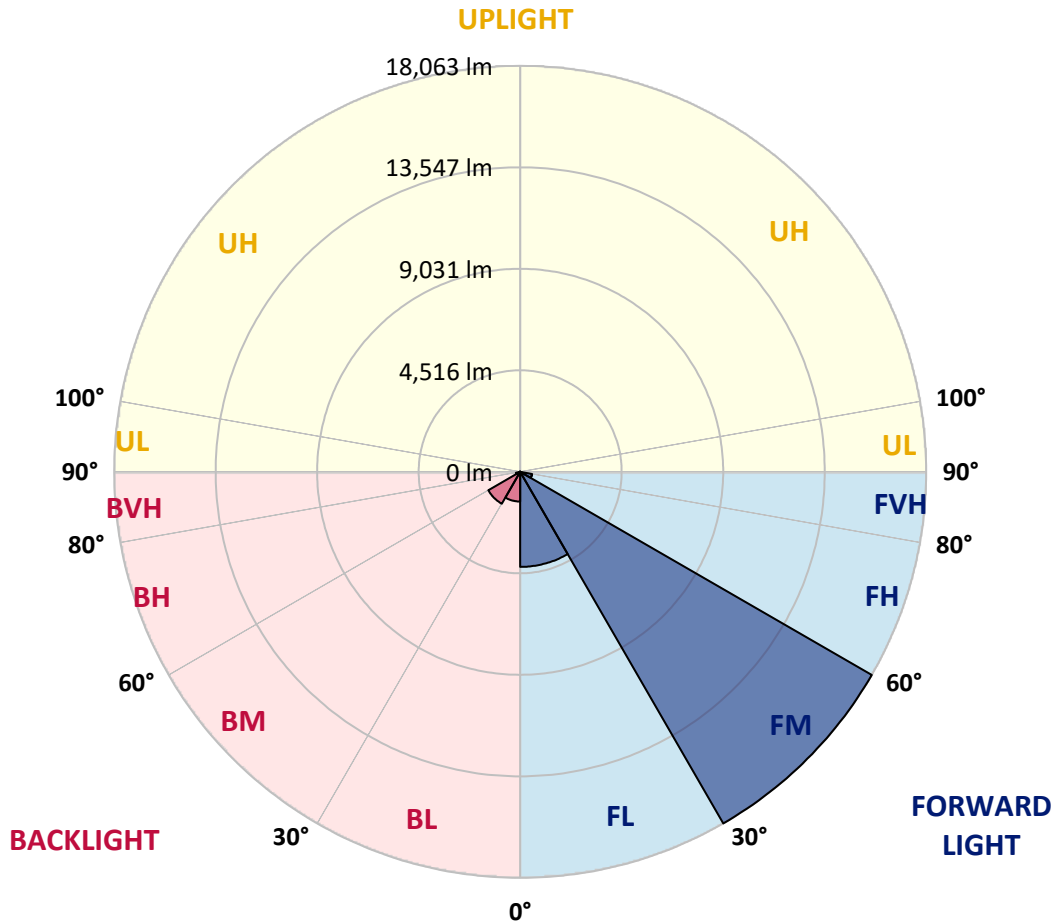


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4228.7	16.3			
FM (30°-60°)	18062.7	69.4			
FH (60°-80°)	537.7	2.1			G0/660
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	1322.9	5.1	B3/2500		
BM (30°-60°)	1638.5	6.3	B2/2500		
BH (60°-80°)	191.1	0.7	B1/500		G1/500
BVH (80°-90°)	14.3	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°	52°	55°	65°	75°	85°
0°	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0
2.5°	9103.4	8894.9	8913.8	8777.3	8697.7	8568.8	8394.4	8360.3	8170.7	7912.9	7651.3
5°	9922.4	9873.1	9937.5	9740.4	9748.0	9535.6	9126.1	9133.7	8697.7	8276.9	7871.2
7.5°	9975.4	9861.7	9926.2	10100.6	10202.9	10165.0	9933.7	9732.8	9319.5	8701.5	8110.0
10°	8932.8	9148.9	9217.1	9505.3	9914.8	10347.0	10320.5	10331.8	9986.8	9179.2	8314.8
12.5°	8307.2	8163.1	8394.4	8568.8	9186.8	10024.7	10407.7	10491.1	10517.6	9641.8	8519.5
15°	8022.8	8022.8	8060.7	8110.0	8557.4	9330.9	10111.9	10354.6	10927.1	10248.4	8841.8
17.5°	8201.0	8193.4	8246.5	8144.1	8311.0	8906.2	9838.9	10115.7	11385.9	10843.7	9095.8
20°	8743.2	8769.7	8735.6	8439.9	8451.3	8898.7	9535.6	9971.7	11696.8	11359.3	9433.3
22.5°	9497.7	9512.9	9319.5	8997.2	8902.4	9122.4	9710.0	10043.7	11947.0	11977.4	9535.6
25°	10369.8	10309.1	10271.2	9816.2	9528.0	9717.6	10104.4	10297.7	12102.5	12508.2	9827.6
27.5°	11579.2	11457.9	11226.6	10820.9	10608.6	10339.4	10616.2	10934.7	12546.1	13251.3	10146.1
30°	13365.0	13258.9	12807.7	12284.5	11727.1	11461.7	11548.9	11723.3	13346.1	14112.0	10566.9
32.5°	16053.2	15829.5	15177.4	14180.2	13421.9	12690.2	12667.4	12853.2	14062.7	15302.5	11067.4
35°	19014.4	18946.1	17986.9	16959.4	15492.1	14362.2	14381.2	14479.7	15435.2	16864.6	11723.3
37.5°	20982.2	21357.5	20747.1	19643.8	18411.5	16796.4	16386.9	16421.0	17319.6	18714.9	12906.3
40°	22502.6	22184.1	22256.1	21998.3	21156.6	20057.1	19150.9	18972.7	19499.7	20762.3	14081.6
42.5°	21839.1	21854.2	22297.8	22908.3	23116.8	23037.2	22112.0	21774.6	21365.1	22438.1	15200.1
45°	19966.1	20356.6	20932.9	22548.1	23966.1	25296.9	25114.9	24553.8	22654.2	23765.1	15844.7
47.5°	16978.3	16963.2	17907.3	20007.8	23158.5	26275.1	27101.7	26707.3	23568.0	23617.3	15712.0
48°	15875.0	16148.0	17122.4	19594.5	22646.6	26131.0	27279.9	26783.2	23412.5	23420.1	15598.2
50°	11734.7	11685.4	12898.7	15931.9	20227.7	24553.8	26529.1	26915.9	23408.7	22422.9	14802.0
52.5°	6199.1	6411.4	7294.9	10017.2	14301.5	20095.0	23401.2	24004.0	22582.2	20792.6	13657.0
55°	2635.1	2381.1	3059.7	4523.3	8045.6	13425.7	17167.9	18510.1	19094.0	18400.2	11947.0
57.5°	940.3	1027.5	1182.9	1702.4	3382.0	7347.9	10237.1	11279.7	13228.6	13501.5	8140.4
60°	602.8	614.2	663.5	781.0	1270.2	2832.3	4856.9	5687.3	6570.7	6783.0	3799.1
62.5°	466.4	470.1	492.9	511.9	602.8	1099.5	1823.7	2161.2	2244.6	1929.9	997.2
65°	390.5	394.3	401.9	401.9	428.4	515.6	637.0	701.4	682.5	674.9	564.9
67.5°	299.5	307.1	322.3	322.3	337.4	314.7	352.6	375.4	424.6	515.6	481.5
70°	235.1	238.9	250.2	257.8	257.8	227.5	254.0	276.8	310.9	382.9	379.2
72.5°	182.0	189.6	197.2	197.2	185.8	155.5	182.0	200.9	223.7	265.4	257.8
75°	140.3	140.3	144.1	117.5	91.0	79.6	110.0	132.7	166.8	174.4	144.1
77.5°	37.9	41.7	37.9	34.1	37.9	56.9	72.0	83.4	106.2	106.2	94.8
80°	0.0	3.8	11.4	22.7	37.9	53.1	64.5	72.0	83.4	91.0	87.2
82.5°	0.0	3.8	11.4	22.7	34.1	41.7	56.9	60.7	68.2	79.6	79.6
85°	0.0	3.8	7.6	15.2	22.7	26.5	26.5	22.7	22.7	19.0	15.2
87.5°	0.0	0.0	3.8	7.6	7.6	11.4	11.4	11.4	11.4	11.4	11.4
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°	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0	7511.0
2.5°	7548.9	7431.3	7253.1	6972.6	6703.4	6529.0	6362.1	6176.4	6074.0	6066.4	6009.5
5°	7639.9	7374.5	6949.8	6468.3	5952.7	5509.1	5061.7	4769.7	4508.1	4364.0	4337.5
7.5°	7689.2	7344.1	6657.9	5850.3	4970.7	4246.5	3746.0	3378.2	3234.2	3128.0	3124.2
10°	7791.5	7291.1	6221.9	5031.3	3943.2	3211.4	2866.4	2699.6	2619.9	2589.6	2544.1
12.5°	7867.4	7192.5	5774.5	4189.6	3116.6	2661.6	2510.0	2472.1	2475.9	2491.0	2472.1
15°	7973.5	7105.3	5171.6	3438.9	2616.1	2396.2	2396.2	2403.8	2456.9	2464.5	2460.7
17.5°	7965.9	6934.7	4549.8	2832.3	2312.8	2282.5	2293.9	2365.9	2400.0	2411.4	2384.9
20°	8056.9	6775.4	3909.0	2419.0	2142.2	2187.7	2263.5	2282.5	2324.2	2331.8	2301.4
22.5°	8030.4	6377.3	3313.8	2092.9	2013.3	2100.5	2176.3	2199.1	2187.7	2164.9	2161.2
25°	7981.1	6036.1	2767.8	1876.8	1918.5	2013.3	2085.3	2043.6	2020.9	2024.7	2028.5
27.5°	7893.9	5603.8	2316.6	1725.1	1789.6	1929.9	1926.1	1910.9	1933.7	1914.7	1933.7
30°	7878.7	5171.6	1945.0	1588.6	1694.8	1797.2	1804.8	1831.3	1857.8	1823.7	1857.8
32.5°	7901.5	4697.7	1679.6	1505.2	1637.9	1641.7	1725.1	1751.7	1732.7	1656.9	1664.5
35°	8075.9	4333.7	1486.3	1459.7	1546.9	1550.7	1630.3	1596.2	1512.8	1467.3	1493.9
37.5°	8443.7	4030.4	1395.3	1418.0	1425.6	1474.9	1478.7	1410.4	1418.0	1414.2	1429.4
40°	8913.8	3799.1	1330.8	1380.1	1372.5	1406.6	1270.2	1308.1	1342.2	1353.6	1361.1
42.5°	9236.1	3632.3	1289.1	1319.4	1304.3	1243.6	1167.8	1205.7	1232.2	1273.9	1281.5
45°	9380.2	3499.6	1239.8	1213.3	1213.3	1103.3	1073.0	1080.6	1141.2	1186.7	1179.2
47.5°	9145.1	3370.6	1152.6	1073.0	1099.5	1008.5	974.4	974.4	1038.9	1095.7	1084.4
48°	9054.1	3317.6	1156.4	1042.7	1061.6	993.4	959.3	951.7	1023.7	1076.8	1076.8
50°	8602.9	3120.4	1057.8	959.3	921.3	913.8	891.0	898.6	944.1	993.4	993.4
52.5°	7723.3	2695.8	894.8	822.8	754.5	800.0	811.4	796.2	819.0	864.5	860.7
55°	6445.6	2070.2	716.6	682.5	629.4	678.7	701.4	682.5	659.7	693.8	693.8
57.5°	4128.9	1114.7	572.5	580.1	527.0	576.3	595.3	549.8	508.1	534.6	530.8
60°	1861.6	667.3	470.1	458.8	424.6	481.5	511.9	458.8	401.9	420.9	439.8
62.5°	697.6	473.9	356.4	348.8	341.2	394.3	409.5	367.8	310.9	322.3	326.1
65°	511.9	417.1	284.4	257.8	273.0	310.9	303.3	261.6	223.7	223.7	231.3
67.5°	436.0	364.0	231.3	200.9	200.9	204.7	189.6	166.8	155.5	163.0	170.6
70°	341.2	288.2	182.0	155.5	140.3	125.1	110.0	106.2	94.8	106.2	102.4
72.5°	219.9	193.4	140.3	117.5	106.2	87.2	72.0	68.2	56.9	53.1	53.1
75°	117.5	117.5	110.0	94.8	83.4	68.2	56.9	45.5	30.3	22.7	22.7
77.5°	83.4	91.0	98.6	91.0	75.8	56.9	45.5	30.3	15.2	7.6	7.6
80°	79.6	91.0	98.6	87.2	75.8	56.9	41.7	22.7	11.4	3.8	3.8
82.5°	72.0	83.4	91.0	79.6	68.2	49.3	37.9	22.7	11.4	3.8	3.8
85°	15.2	19.0	22.7	22.7	26.5	34.1	26.5	19.0	7.6	3.8	3.8
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	7.6	7.6	3.8	3.8	3.8
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)