

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: P530730

Luminaire Tested: **GALN-SA6A-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530730  
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-SA6A-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA 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: 19187 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

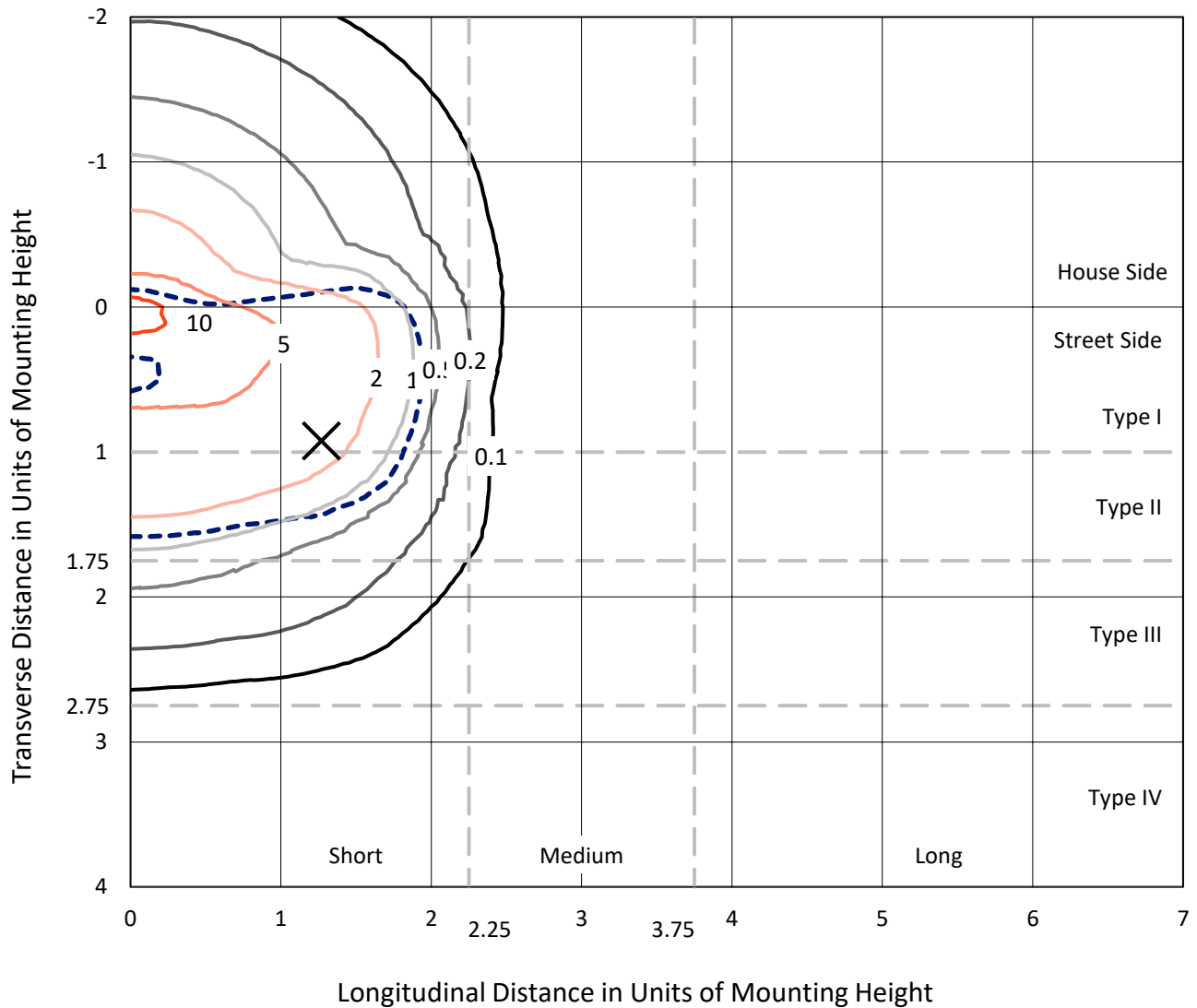
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

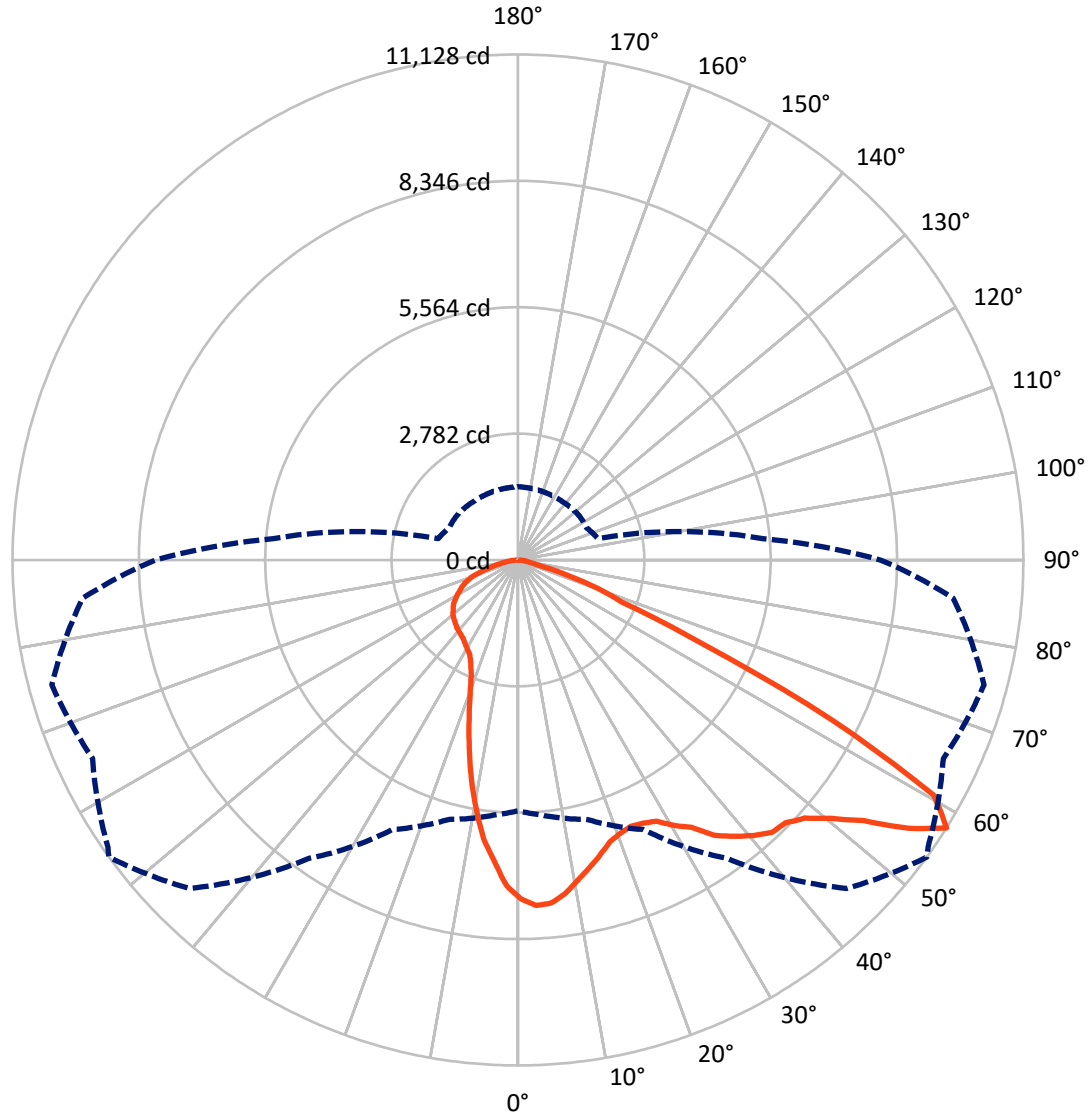
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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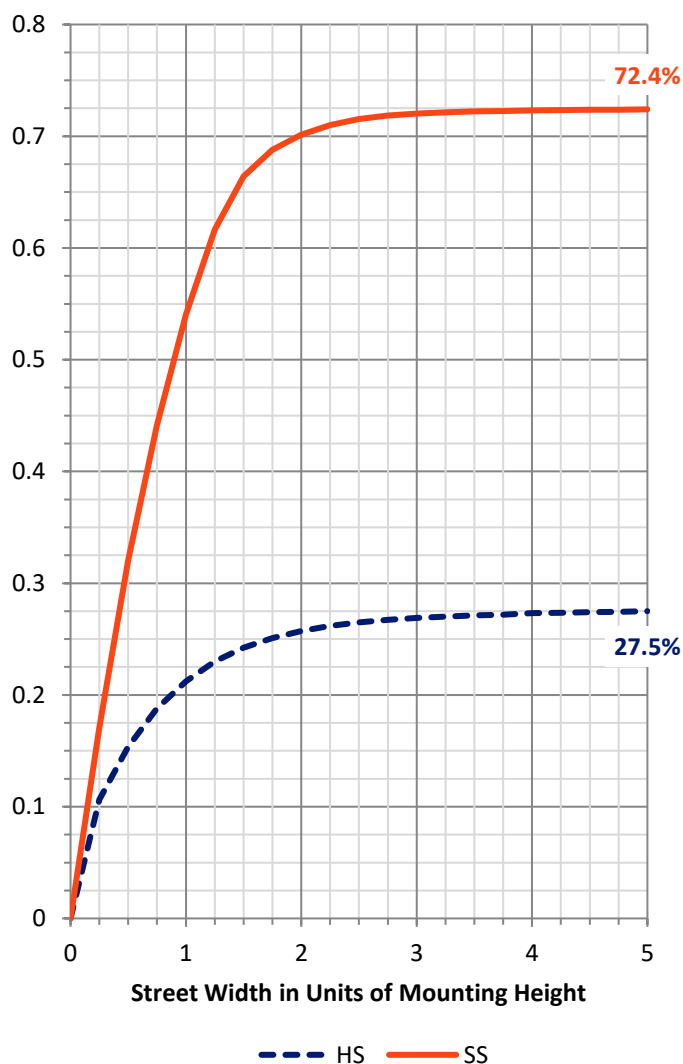
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5308.2	0.0	5308.2
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	13878.8	0.0	13878.8
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	19187.0	0.0	19187.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	643.2	3.4
10°-20°	1489.2	7.8
20°-30°	2092.3	10.9
30°-40°	2925.0	15.2
40°-50°	3959.9	20.6
50°-60°	4823.3	25.1
60°-70°	2512.2	13.1
70°-80°	643.7	3.4
80°-90°	98.2	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°	19187.0	100.0
0°-180°	19187.0	100.0

**Coefficient of Utilization**



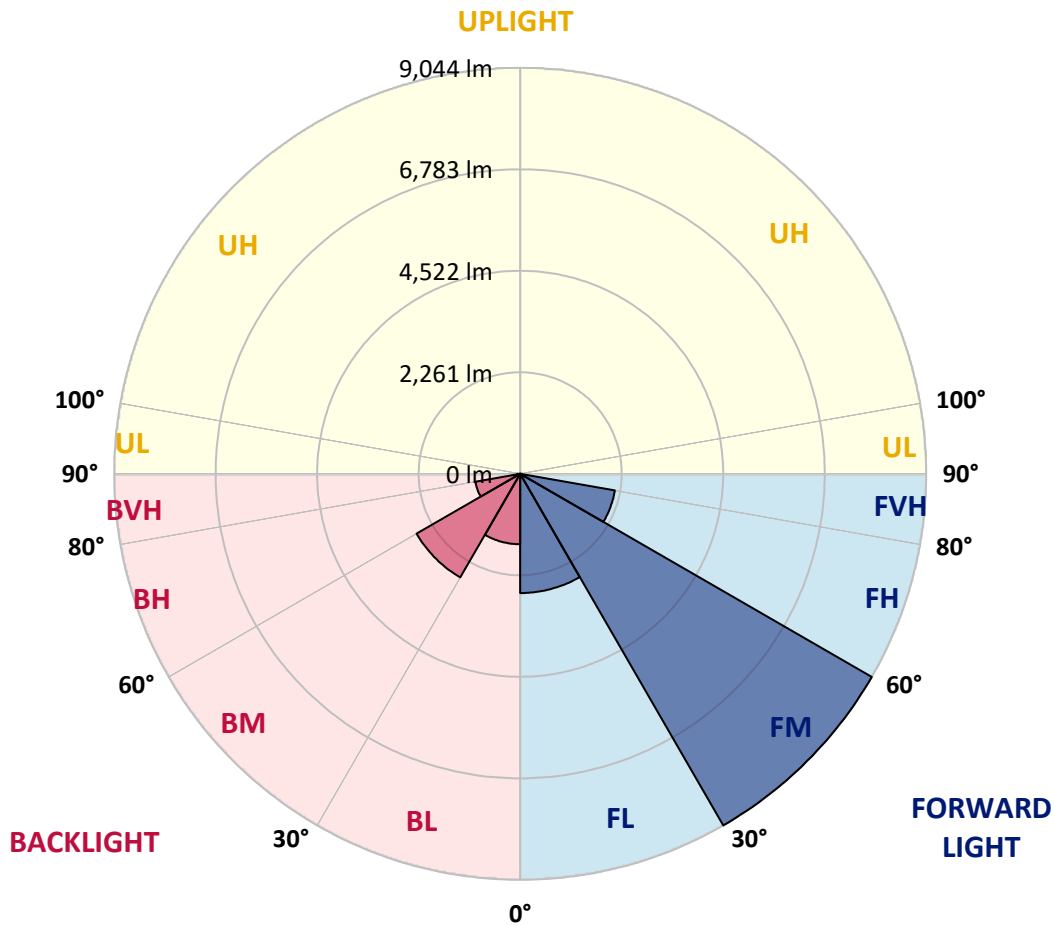
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2655.7	13.8			
FM (30°-60°)	9044.2	47.1			
FH (60°-80°)	2141.8	11.2			G2/5000
FVH (80°-90°)	37.1	0.2			G1/100
BL (0°-30°)	1568.8	8.2	B3/2500		
BM (30°-60°)	2664.1	13.9	B3/5000		
BH (60°-80°)	1014.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	61.1	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8
2.5°	7669.9	7640.3	7645.2	7684.7	7635.3	7615.6	7615.6	7519.4	7526.8	7460.2	7443.0
5°	7492.3	7423.2	7470.1	7529.3	7539.2	7558.9	7590.9	7566.3	7497.2	7425.7	7309.8
7.5°	7028.6	7090.3	7107.6	7149.5	7238.3	7319.7	7420.8	7351.7	7349.3	7277.7	7208.7
10°	6621.7	6584.7	6678.5	6740.1	6888.1	7023.7	7179.1	7171.7	7208.7	7127.3	7008.9
12.5°	6217.3	6187.7	6232.1	6372.6	6579.8	6777.1	6962.1	6893.0	7090.3	7075.5	6821.5
15°	5788.2	5810.4	5874.5	6005.2	6276.5	6513.2	6747.5	6750.0	6925.1	6984.3	6643.9
17.5°	5487.3	5462.6	5544.0	5738.8	5980.5	6264.1	6530.5	6584.7	6853.5	6888.1	6589.7
20°	5262.9	5297.4	5403.4	5502.1	5780.8	6123.6	6424.4	6444.2	6838.8	6932.5	6503.4
22.5°	5208.6	5188.9	5223.4	5383.7	5613.1	5985.5	6367.7	6441.7	6836.3	6917.7	6340.6
25°	5151.9	5216.0	5213.5	5373.8	5541.5	5874.5	6414.6	6496.0	6967.0	6994.1	6362.8
27.5°	5280.1	5272.7	5341.8	5354.1	5561.3	5904.1	6513.2	6574.9	7184.0	7161.8	6380.0
30°	5408.4	5371.4	5413.3	5558.8	5655.0	6074.2	6784.5	6779.6	7465.2	7450.4	6434.3
32.5°	5566.2	5548.9	5576.1	5704.3	5867.1	6301.1	7013.9	7159.4	7751.2	7845.0	6621.7
35°	5595.8	5667.3	5731.4	5904.1	6135.9	6668.6	7445.4	7566.3	8081.7	8375.2	6979.3
37.5°	5783.2	5810.4	5960.8	6266.6	6478.7	7159.4	7719.2	7795.6	8382.6	8715.5	7356.7
40°	5983.0	6015.0	6241.9	6562.5	6853.5	7480.0	7975.7	8000.3	8478.8	8976.9	7603.3
42.5°	6254.3	6283.9	6508.3	6910.3	7299.9	7753.7	8202.6	8229.7	8471.4	9277.8	7995.4
45°	6535.4	6606.9	6870.8	7327.1	7677.3	8074.3	8254.3	8365.3	8540.4	9546.6	8313.5
47.5°	6930.0	6996.6	7213.6	7660.0	8069.4	8355.5	8493.6	8602.1	8705.7	9780.9	8518.2
50°	7349.3	7361.6	7625.5	8029.9	8330.8	8673.6	8939.9	8976.9	8922.7	10052.2	8866.0
52.5°	7657.5	7697.0	7901.7	8296.3	8745.1	9166.8	9531.8	9571.3	9465.2	10153.3	8984.3
55°	7147.0	7124.8	7457.8	7983.1	9023.8	9901.8	10432.0	10461.6	9859.8	10466.5	9371.5
57.5°	5524.3	5630.3	5913.9	6547.7	8017.6	10227.3	11127.5	11021.4	10333.3	10624.4	9618.2
60°	4015.0	3990.3	4180.2	4604.4	6042.2	8814.2	10520.8	10629.3	9946.2	9576.2	7931.3
62.5°	3270.2	3235.6	3250.4	3265.2	3899.1	5849.8	7788.2	7785.8	7660.0	6883.1	5349.2
65°	2614.2	2695.5	2702.9	2813.9	2895.3	3494.6	4513.1	4754.8	4140.7	3395.9	2463.7
67.5°	1970.5	1940.9	2039.5	2434.1	2587.0	2522.9	2463.7	2490.9	1770.7	1277.5	1203.5
70°	1161.6	1149.2	1267.6	1696.7	2130.8	2005.0	1857.0	1859.5	1215.8	892.8	993.9
72.5°	636.3	633.8	658.5	860.7	1210.9	1257.8	1114.7	1149.2	725.1	722.6	776.9
75°	355.1	347.7	340.3	379.8	436.5	461.2	471.0	476.0	498.2	557.4	579.6
77.5°	130.7	125.8	125.8	145.5	185.0	231.8	293.5	298.4	352.7	404.5	426.7
80°	44.4	49.3	66.6	91.2	123.3	165.2	199.8	204.7	249.1	283.6	291.0
82.5°	27.1	29.6	44.4	64.1	88.8	115.9	148.0	150.4	185.0	207.2	217.0
85°	12.3	14.8	24.7	39.5	56.7	76.5	78.9	78.9	76.5	78.9	74.0
87.5°	0.0	0.0	4.9	4.9	4.9	7.4	9.9	7.4	12.3	14.8	14.8
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°	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8	7457.8
2.5°	7391.2	7364.1	7280.2	7206.2	7184.0	7085.4	6939.9	6957.1	6851.1	6900.4	6848.6
5°	7290.1	7198.8	6984.3	6893.0	6653.8	6545.3	6471.3	6286.3	6200.0	6182.7	6108.8
7.5°	7031.1	6974.4	6705.6	6459.0	6204.9	5987.9	5709.2	5519.3	5383.7	5346.7	5238.2
10°	6826.4	6700.6	6328.3	5953.4	5590.9	5213.5	4851.0	4567.4	4429.3	4269.0	4214.7
12.5°	6624.2	6434.3	5931.2	5450.3	4981.7	4505.7	4066.8	3721.5	3420.6	3349.1	3324.4
15°	6498.4	6167.9	5576.1	4996.5	4330.6	3709.2	3270.2	3043.3	2858.3	2781.9	2836.1
17.5°	6333.2	5948.5	5235.7	4463.8	3731.3	3159.2	2791.7	2651.2	2584.6	2592.0	2569.8
20°	6126.0	5741.3	4789.3	3980.4	3196.2	2739.9	2530.3	2478.5	2488.4	2505.7	2498.3
22.5°	5978.1	5489.7	4466.3	3487.2	2762.1	2508.1	2421.8	2384.8	2416.9	2431.7	2419.3
25°	5864.6	5275.2	4074.2	3050.7	2510.6	2377.4	2338.0	2335.5	2384.8	2404.5	2392.2
27.5°	5761.0	5075.4	3684.5	2717.7	2342.9	2276.3	2264.0	2293.6	2325.6	2345.3	2362.6
30°	5699.4	4922.5	3319.5	2439.1	2259.0	2227.0	2204.8	2231.9	2249.2	2268.9	2259.0
32.5°	5758.6	4814.0	2966.8	2281.2	2190.0	2157.9	2187.5	2170.2	2199.8	2217.1	2190.0
35°	5943.5	4717.8	2715.3	2197.4	2111.1	2123.4	2128.3	2120.9	2133.3	2118.5	2150.5
37.5°	6126.0	4683.3	2483.5	2125.9	2074.1	2074.1	2069.1	2054.3	2079.0	2074.1	2088.9
40°	6357.8	4705.5	2286.2	2049.4	2039.5	2034.6	2014.9	2012.4	2002.5	2005.0	2009.9
42.5°	6560.1	4754.8	2172.7	2000.1	2007.5	2017.3	1980.4	1950.8	1963.1	1938.4	1938.4
45°	6774.6	4799.2	2071.6	1965.6	1958.2	1955.7	1926.1	1908.8	1899.0	1901.4	1923.6
47.5°	7112.5	4863.3	1995.2	1918.7	1923.6	1886.6	1879.2	1857.0	1866.9	1881.7	1884.2
50°	7351.7	4999.0	1936.0	1864.4	1881.7	1857.0	1812.7	1802.8	1802.8	1827.4	1822.5
52.5°	7519.4	5188.9	1879.2	1805.3	1812.7	1792.9	1778.1	1755.9	1741.1	1775.7	1792.9
55°	8032.4	5504.5	1864.4	1755.9	1753.5	1733.7	1706.6	1684.4	1677.0	1681.9	1716.5
57.5°	7983.1	5405.9	1817.6	1669.6	1664.7	1637.6	1610.4	1603.0	1600.6	1605.5	1615.4
60°	6481.2	3992.8	1622.8	1571.0	1563.6	1558.6	1531.5	1501.9	1487.1	1501.9	1489.6
62.5°	4288.7	2673.4	1430.4	1452.6	1457.5	1445.2	1400.8	1371.2	1376.1	1393.4	1366.3
65°	2106.1	1571.0	1297.2	1356.4	1361.3	1326.8	1284.9	1250.4	1233.1	1247.9	1235.6
67.5°	1203.5	1201.0	1188.7	1250.4	1247.9	1213.4	1146.8	1117.2	1087.6	1092.5	1085.1
70°	1021.0	1040.7	1065.4	1102.4	1099.9	1060.5	981.5	959.3	917.4	912.5	900.2
72.5°	804.0	838.5	892.8	919.9	897.7	848.4	796.6	759.6	722.6	700.4	707.8
75°	596.8	646.1	675.7	693.0	658.5	631.3	589.4	545.0	500.6	480.9	473.5
77.5°	434.0	448.8	476.0	488.3	466.1	439.0	414.3	369.9	328.0	300.9	293.5
80°	303.3	313.2	332.9	332.9	332.9	320.6	288.5	244.2	217.0	192.4	187.4
82.5°	212.1	222.0	241.7	231.8	229.4	214.6	194.8	160.3	130.7	113.4	108.5
85°	74.0	81.4	98.6	118.4	125.8	123.3	111.0	88.8	69.1	56.7	51.8
87.5°	17.3	17.3	19.7	17.3	17.3	19.7	17.3	17.3	17.3	12.3	9.9
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)