

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: P321074

Luminaire Tested: **GLEON-SA0A-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34787 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

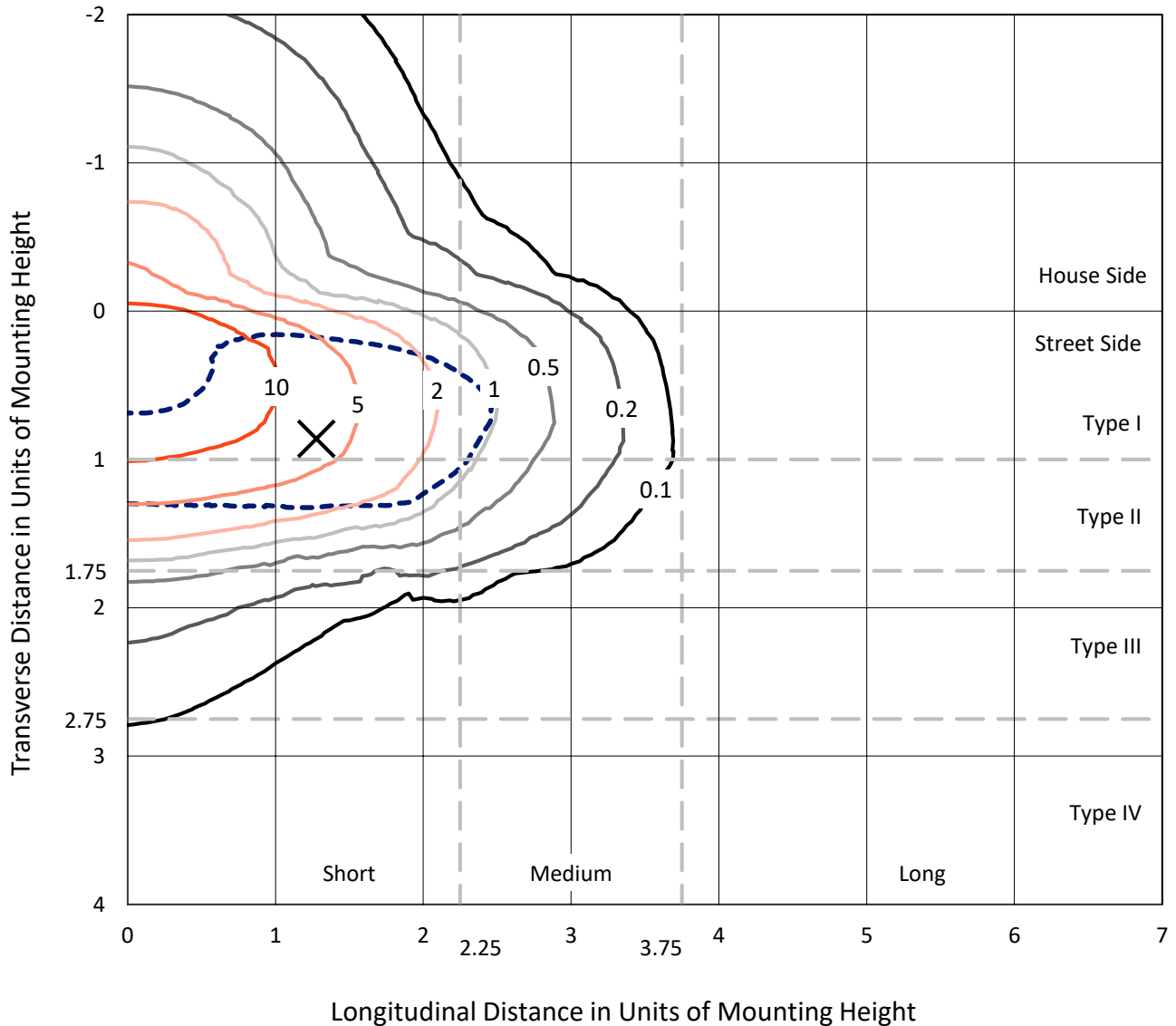
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321074
 CATALOG NUMBER: GLEON-SA0A-827-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

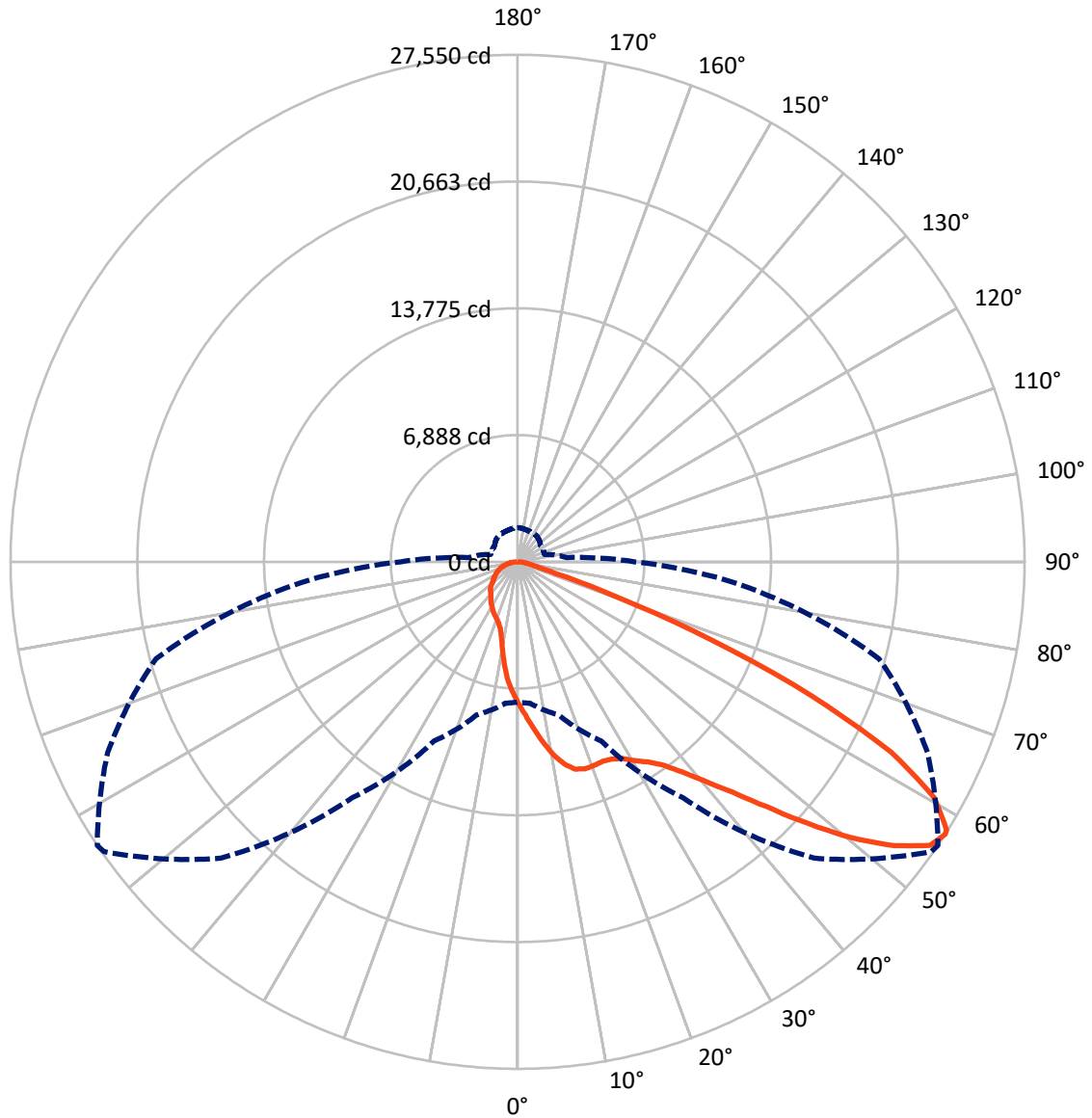
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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CATALOG NUMBER: GLEON-SA0A-827-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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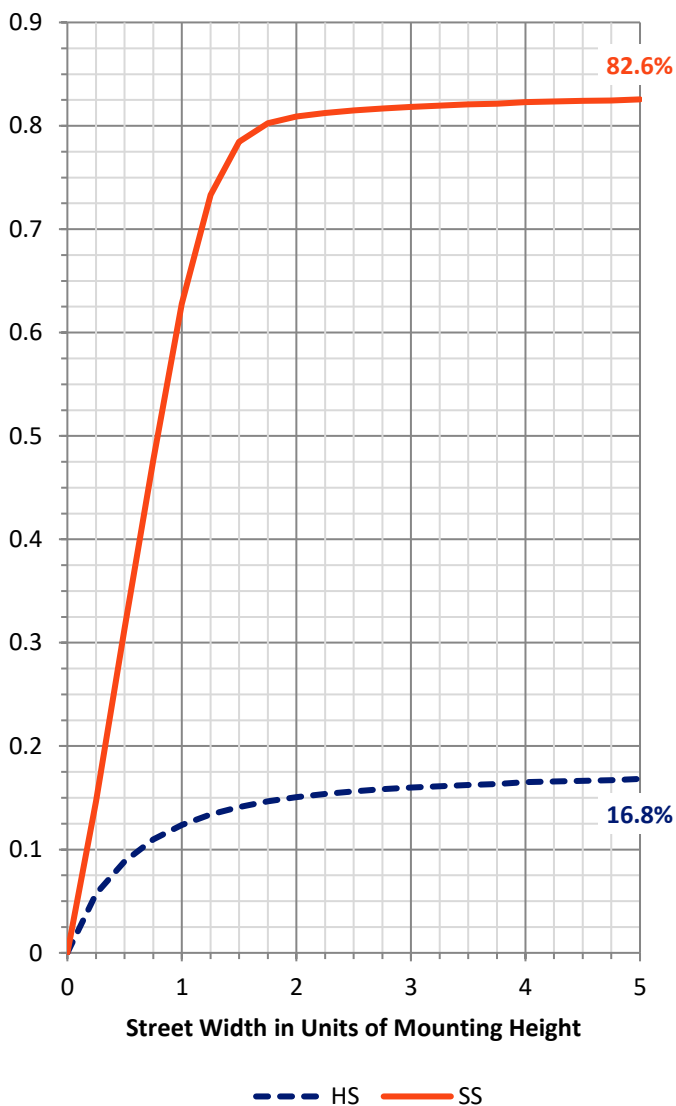
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5996.5	0.0	5996.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	28790.5	0.0	28790.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	34787.0	0.0	34787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.1	2.1
10°-20°	2083.8	6.0
20°-30°	3394.1	9.8
30°-40°	5073.9	14.6
40°-50°	7696.0	22.1
50°-60°	8625.8	24.8
60°-70°	5094.7	14.6
70°-80°	1669.2	4.8
80°-90°	412.4	1.2
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°	34787.0	100.0
0°-180°	34787.0	100.0

Coefficient of Utilization

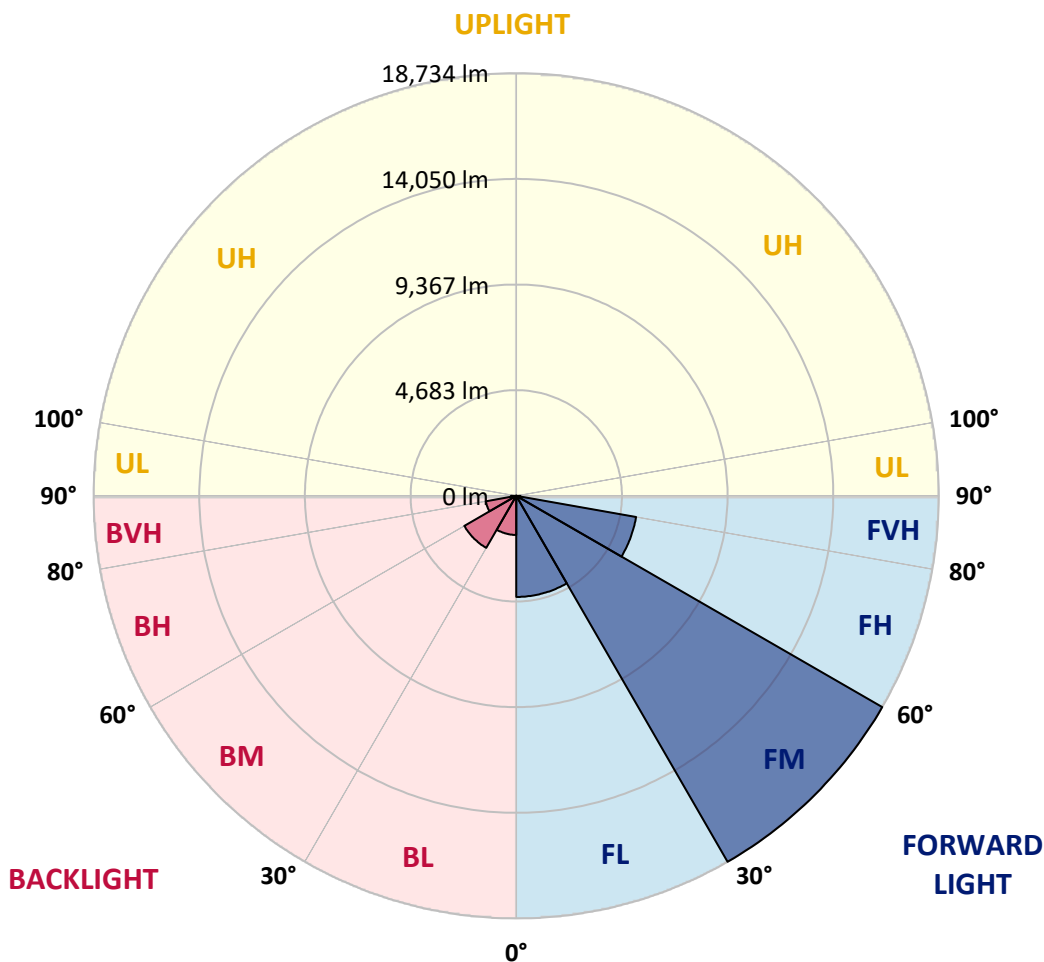


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4481.1	12.9			
FM (30°-60°)	18734.0	53.9			
FH (60°-80°)	5393.8	15.5			G3/7500
FVH (80°-90°)	181.6	0.5			G2/225
BL (0°-30°)	1733.9	5.0	B3/2500		
BM (30°-60°)	2661.7	7.7	B3/5000		
BH (60°-80°)	1370.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	230.8	0.7			G3/500
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°	55°	56°	65°	75°	85°
0°	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8
2.5°	8859.9	8941.2	8905.3	8781.0	8685.3	8550.3	8399.6	8354.2	8195.2	8017.1	7803.1
5°	10262.2	10221.6	10163.0	9969.3	9764.9	9527.0	9149.2	9089.4	8735.6	8332.7	7907.1
7.5°	11060.8	11057.2	11022.6	10909.0	10722.5	10411.7	9956.2	9885.6	9351.2	8703.3	8043.4
10°	10944.8	10936.5	10993.9	11112.2	11168.4	11103.8	10720.1	10649.6	9993.2	9113.3	8201.2
12.5°	10286.1	10290.9	10383.0	10631.6	10970.0	11376.4	11314.3	11279.6	10659.1	9577.2	8392.4
15°	9773.3	9784.0	9856.9	10073.3	10472.6	11210.2	11675.3	11687.3	11303.5	10088.9	8616.0
17.5°	9548.5	9571.2	9604.7	9756.5	10122.3	10879.1	11761.4	11825.9	11867.8	10619.7	8831.2
20°	9620.2	9641.7	9651.3	9748.1	10048.2	10678.2	11701.6	11817.6	12300.5	11119.4	9046.4
22.5°	9941.8	9955.0	9960.9	9986.1	10219.2	10735.6	11662.1	11784.1	12613.8	11567.7	9209.0
25°	10475.0	10465.4	10427.2	10394.9	10551.5	10962.8	11753.0	11869.0	12868.4	11974.2	9315.4
27.5°	11113.4	11101.5	11027.3	10938.9	11028.5	11316.6	12014.8	12106.9	13096.8	12354.3	9369.2
30°	11879.7	11848.6	11708.8	11603.6	11638.2	11847.5	12446.4	12530.1	13449.4	12785.9	9421.8
32.5°	12765.6	12732.1	12530.1	12355.5	12355.5	12530.1	12891.1	12960.5	13748.3	13273.7	9506.7
35°	13875.0	13833.2	13570.2	13277.3	13194.8	13283.3	13497.2	13546.3	14286.3	13888.2	9660.9
37.5°	15182.9	15126.7	14786.0	14393.9	14213.4	14208.6	14362.8	14463.2	15145.9	14695.1	9922.7
40°	16494.4	16454.9	16157.2	15848.8	15494.9	15381.4	15619.3	15650.4	16269.6	15697.0	10257.4
42.5°	17508.2	17501.0	17446.0	17486.6	17124.4	16894.9	17081.4	17106.5	17642.1	16781.3	10613.7
45°	18043.8	18055.7	18322.3	18912.9	19046.8	18879.4	18971.5	18978.6	19210.6	17875.2	10940.1
47.5°	17614.6	17676.7	18351.0	19672.0	20768.3	21324.2	21171.2	21259.7	20731.2	18814.9	11195.9
50°	15942.1	16018.6	17166.3	19333.7	21571.7	23690.1	23610.0	23589.7	21957.8	19503.5	11334.6
52.5°	13870.2	13930.0	14876.9	17575.1	20982.3	24998.0	25733.2	25628.0	23048.1	20018.7	11360.9
55°	10715.3	10808.6	11715.9	14065.1	18598.5	24498.3	27294.6	27200.1	24041.6	20288.9	11329.8
57°	7617.8	7715.8	8617.2	10734.4	15645.6	22768.4	27450.0	27550.4	24578.4	20334.3	11364.5
57.5°	6797.6	6898.1	7791.1	9847.4	14725.0	22143.1	27316.1	27483.5	24675.2	20327.2	11383.6
60°	3422.7	3461.0	4030.0	5496.9	9308.2	17901.5	25569.5	26001.0	24762.5	19975.7	11466.1
62.5°	2128.0	2100.5	2082.6	2532.1	4528.6	11871.4	21965.0	22795.9	23092.4	19124.5	11266.4
65°	1871.0	1819.6	1622.3	1586.4	2000.1	5765.9	16541.0	17575.1	19523.8	17783.1	10790.6
67.5°	1757.4	1707.2	1484.8	1350.9	1352.1	2285.8	10269.4	11433.8	15209.2	15515.3	9668.0
70°	1640.2	1594.8	1386.8	1229.0	1151.3	1266.0	4724.6	5608.1	9914.3	12195.3	8080.4
72.5°	1489.6	1458.5	1261.3	1098.7	1016.2	948.0	1808.8	2136.4	5739.6	8190.4	5611.7
75°	1331.8	1303.1	1134.5	979.1	878.7	746.0	1018.6	1097.5	2915.8	4190.2	2762.8
77.5°	1158.4	1141.7	1009.0	865.5	785.4	618.1	720.9	759.1	1250.5	1796.8	1385.6
80°	921.7	954.0	882.3	771.1	697.0	494.9	510.5	535.6	728.1	877.5	786.6
82.5°	600.1	656.3	691.0	626.4	573.8	389.7	367.0	377.8	474.6	535.6	341.9
85°	249.9	280.9	454.3	410.1	381.4	284.5	246.3	251.1	294.1	304.9	139.9
87.5°	111.2	118.4	199.6	187.7	161.4	98.0	105.2	114.8	156.6	148.2	53.8
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°	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8	7715.8
2.5°	7723.0	7622.5	7450.4	7260.3	7104.9	6980.6	6855.0	6768.9	6668.5	6614.7	6587.2
5°	7728.9	7531.7	7169.4	6797.6	6465.3	6161.6	5872.3	5650.0	5441.9	5329.6	5298.5
7.5°	7754.0	7457.6	6871.8	6259.7	5669.1	5129.9	4713.9	4453.3	4265.6	4181.9	4158.0
10°	7774.4	7370.3	6503.5	5597.4	4794.0	4247.6	3924.8	3779.0	3714.4	3703.7	3692.9
12.5°	7822.2	7280.6	6116.2	4906.4	4113.7	3736.0	3623.6	3614.0	3631.9	3658.2	3658.2
15°	7897.5	7192.2	5673.9	4313.4	3681.0	3548.3	3571.0	3623.6	3672.6	3713.2	3719.2
17.5°	7952.5	7083.4	5198.1	3838.8	3450.2	3486.1	3567.4	3641.5	3691.7	3731.2	3734.8
20°	7991.9	6914.8	4690.0	3476.5	3317.5	3428.7	3530.3	3596.1	3630.7	3670.2	3676.2
22.5°	7971.6	6688.8	4239.3	3217.1	3209.9	3345.0	3441.9	3520.8	3494.5	3456.2	3481.3
25°	7873.6	6378.0	3775.4	3023.4	3096.4	3232.6	3352.2	3299.6	3211.1	3194.4	3204.0
27.5°	7699.1	5981.1	3346.2	2844.1	2964.9	3128.6	3121.5	3068.9	3037.8	3016.3	3029.4
30°	7511.4	5550.7	2970.8	2687.5	2819.0	2954.1	2926.6	2925.4	2894.3	2859.6	2876.4
32.5°	7326.1	5118.0	2673.1	2558.4	2709.0	2726.9	2786.7	2804.7	2743.7	2670.8	2666.0
35°	7164.7	4709.1	2447.2	2441.2	2576.3	2578.7	2666.0	2640.9	2489.0	2413.7	2413.7
37.5°	7043.9	4301.4	2275.0	2336.0	2401.8	2463.9	2508.2	2404.2	2379.1	2337.2	2336.0
40°	6991.3	3942.8	2167.5	2255.9	2278.6	2357.5	2244.0	2284.6	2296.6	2275.0	2275.0
42.5°	6936.3	3630.7	2074.2	2194.9	2191.4	2180.6	2123.2	2175.8	2223.6	2224.8	2221.2
45°	6881.3	3361.8	1991.7	2064.6	2114.8	1998.9	2009.6	2065.8	2132.8	2156.7	2156.7
47.5°	6820.4	3149.0	1916.4	1927.2	2004.9	1927.2	1918.8	1961.8	2040.7	2079.0	2087.4
50°	6686.5	2957.7	1830.3	1806.4	1827.9	1854.2	1861.4	1881.7	1969.0	2030.0	2044.3
52.5°	6501.2	2786.7	1720.3	1695.2	1695.2	1794.5	1827.9	1833.9	1908.0	1981.0	1995.3
55°	6346.9	2677.9	1606.8	1602.0	1597.2	1731.1	1788.5	1798.0	1849.4	1906.8	1914.0
57°	6357.7	2669.6	1519.5	1524.3	1523.1	1666.5	1751.4	1771.7	1798.0	1847.1	1855.4
57.5°	6363.7	2675.5	1500.4	1502.7	1501.6	1648.6	1740.7	1763.4	1783.7	1835.1	1843.5
60°	6453.3	2691.1	1422.7	1396.3	1402.3	1553.0	1679.7	1708.4	1721.5	1789.7	1800.4
62.5°	6320.6	2621.7	1360.5	1297.1	1297.1	1452.5	1594.8	1640.2	1660.6	1752.6	1770.5
65°	5935.7	2426.9	1287.6	1184.7	1196.7	1352.1	1493.2	1567.3	1598.4	1713.2	1732.3
67.5°	5341.5	2200.9	1209.9	1084.3	1096.3	1246.9	1388.0	1468.1	1517.1	1670.1	1685.7
70°	4568.0	1924.8	1104.6	977.9	992.3	1132.1	1263.6	1354.5	1427.4	1629.5	1634.3
72.5°	3367.7	1578.1	957.6	860.8	876.3	998.2	1138.1	1243.3	1341.4	1527.9	1525.5
75°	2002.5	1233.8	795.0	742.4	753.2	866.7	1024.5	1152.5	1299.5	1488.4	1511.1
77.5°	1214.6	928.9	648.0	621.7	634.8	750.8	943.3	1079.5	1281.6	1403.5	1396.3
80°	734.0	663.5	517.7	500.9	514.1	642.0	872.7	1024.5	1120.2	1199.1	1199.1
82.5°	383.8	405.3	380.2	367.0	385.0	521.2	793.8	894.2	989.9	850.0	793.8
85°	156.6	211.6	230.7	229.5	240.3	361.0	685.0	765.1	638.4	606.1	620.5
87.5°	52.6	89.7	112.4	96.8	101.6	227.1	474.6	369.4	438.8	306.0	290.5
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)