

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: P317890

Luminaire Tested: **GLEON-SA6C-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31796 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

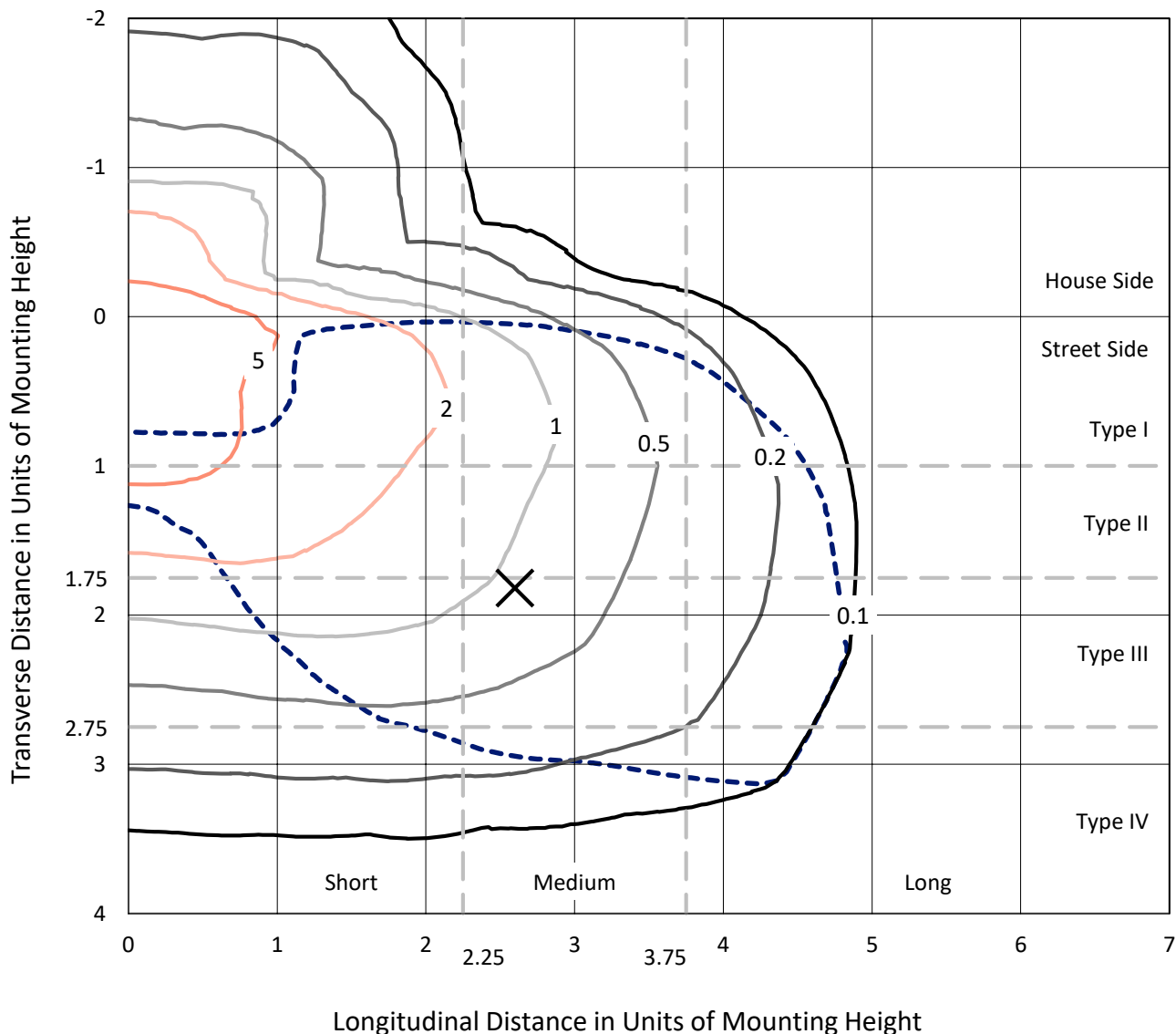
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

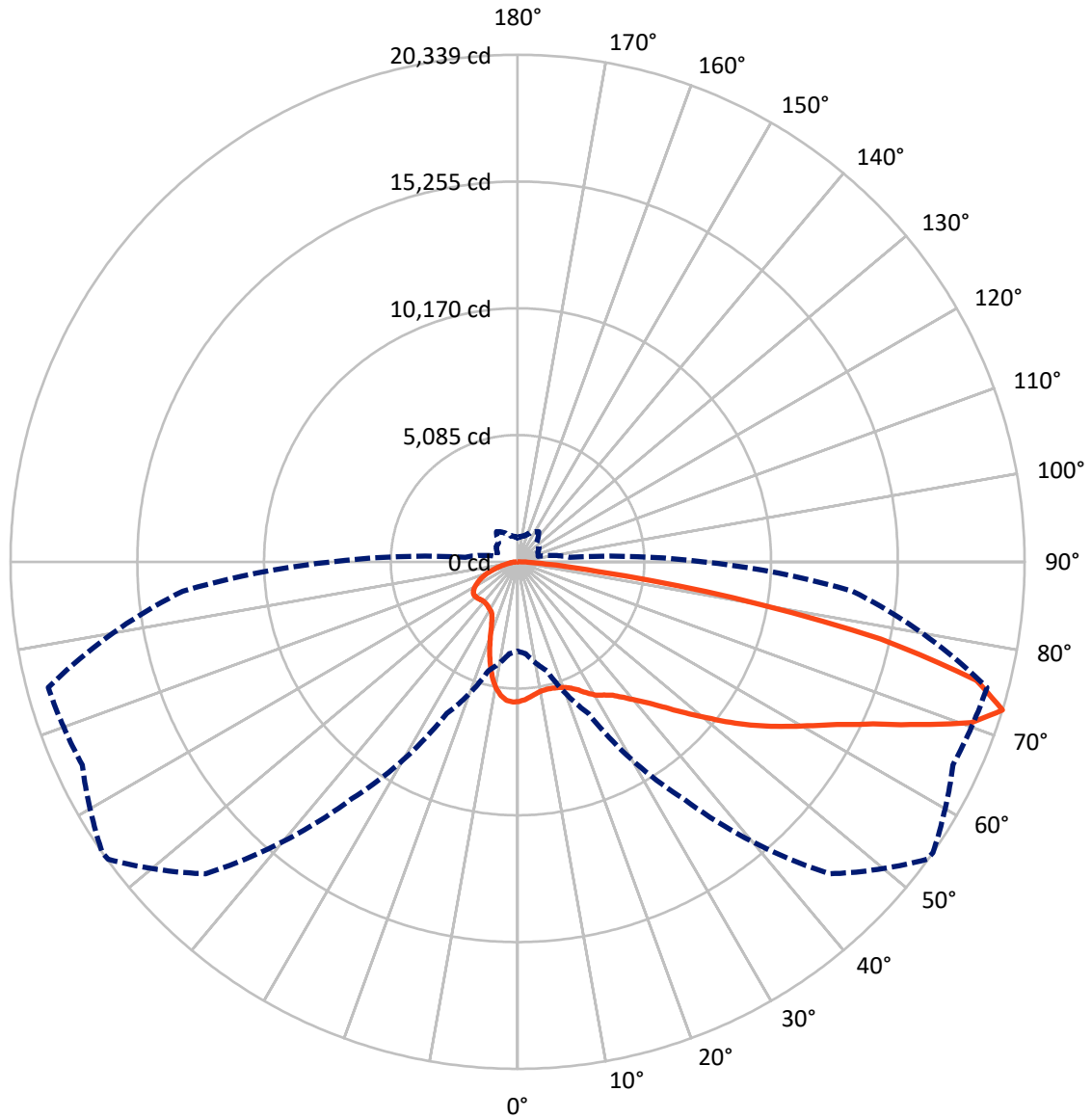
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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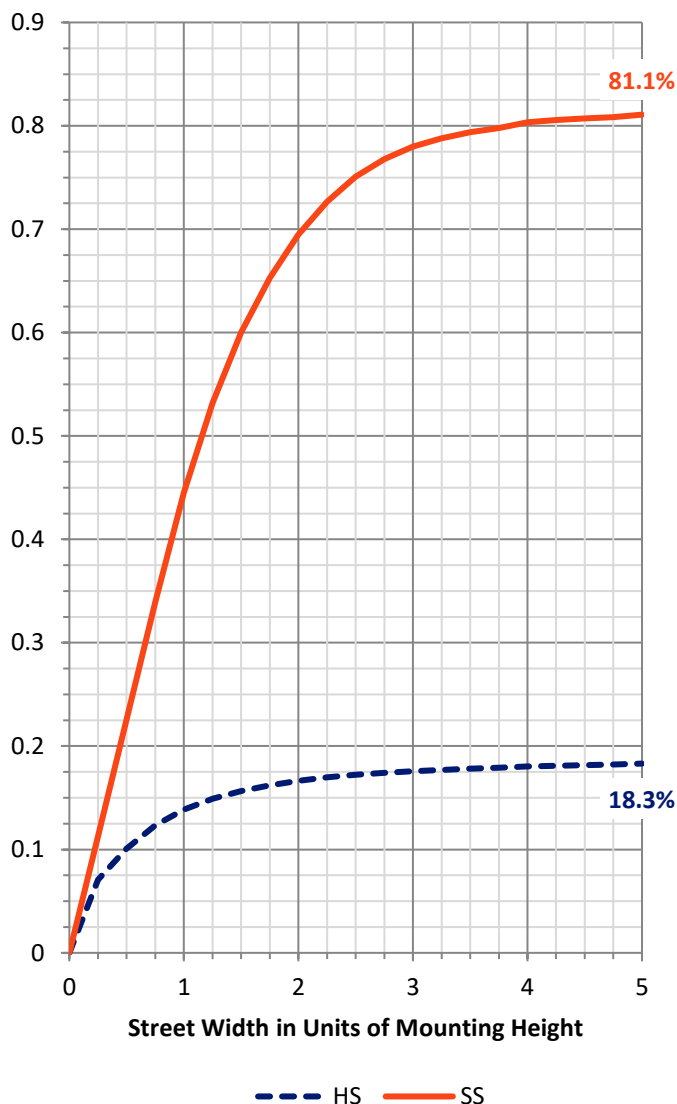
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5909.8	0.0	5909.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25886.2	0.0	25886.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	31796.0	0.0	31796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.5	1.6
10°-20°	1351.1	4.2
20°-30°	2227.6	7.0
30°-40°	3295.2	10.4
40°-50°	4599.3	14.5
50°-60°	5988.5	18.8
60°-70°	7359.7	23.1
70°-80°	5769.1	18.1
80°-90°	698.1	2.2
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°	31796.0	100.0
0°-180°	31796.0	100.0

Coefficient of Utilization

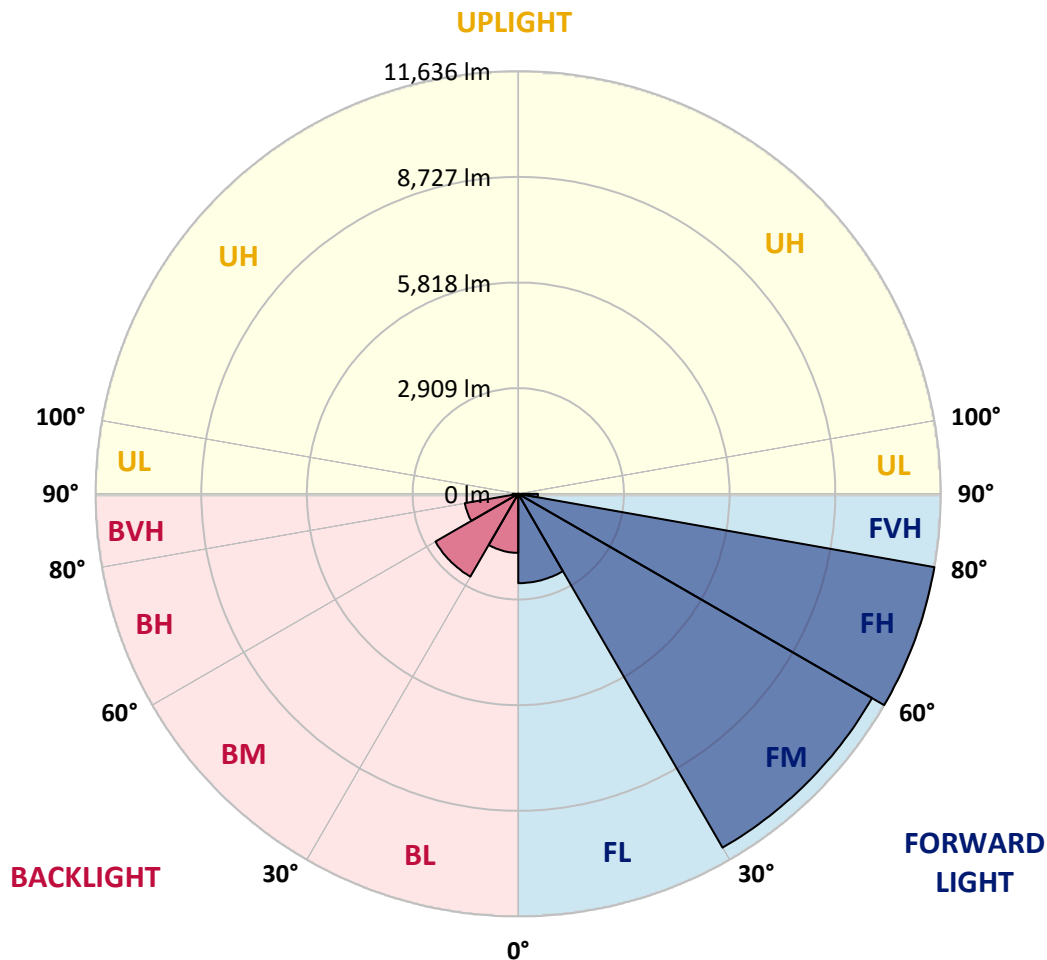


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2460.1	7.7			
FM (30°-60°)	11250.1	35.4			
FH (60°-80°)	11636.3	36.6			G4/12000
FVH (80°-90°)	539.8	1.7			G4/750
BL (0°-30°)	1626.0	5.1	B3/2500		
BM (30°-60°)	2632.9	8.3	B3/5000		
BH (60°-80°)	1492.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	158.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1
2.5°	5425.6	5412.7	5428.8	5451.3	5476.0	5509.3	5528.7	5537.3	5570.5	5583.4	5611.4
5°	5174.3	5167.8	5194.7	5233.3	5288.1	5365.4	5427.7	5439.5	5527.6	5589.9	5646.8
7.5°	4991.7	4991.7	5022.8	5069.0	5130.2	5234.4	5322.5	5338.6	5487.8	5622.1	5727.3
10°	4846.7	4852.1	4888.6	4943.4	5015.3	5125.9	5243.0	5261.2	5477.1	5697.3	5864.8
12.5°	4750.0	4762.9	4796.2	4845.6	4934.8	5069.0	5217.2	5241.9	5499.7	5804.7	6030.2
15°	4811.3	4832.7	4836.0	4856.4	4905.8	5051.8	5232.3	5258.0	5548.0	5914.2	6218.1
17.5°	5079.8	5087.3	5054.0	5011.0	4987.4	5080.8	5277.4	5304.2	5606.0	6022.7	6398.6
20°	5487.8	5483.6	5411.6	5295.6	5175.3	5190.4	5351.5	5379.4	5684.4	6118.3	6579.0
22.5°	6003.3	5988.3	5877.7	5664.0	5458.9	5372.9	5481.4	5505.0	5802.5	6254.6	6772.3
25°	6628.4	6595.1	6449.0	6162.3	5860.5	5639.3	5676.9	5699.4	5974.3	6407.1	6949.5
27.5°	7287.8	7254.5	7068.7	6721.8	6320.2	5975.4	5946.4	5965.8	6169.8	6519.9	7080.5
30°	7977.2	7941.8	7772.1	7383.4	6807.7	6323.4	6197.7	6205.2	6307.3	6581.1	7187.9
32.5°	8669.9	8636.6	8446.6	7995.5	7337.2	6697.1	6379.2	6369.6	6390.0	6644.5	7309.3
35°	9372.3	9385.2	9162.9	8663.5	7923.6	7112.7	6594.0	6573.6	6528.5	6774.4	7481.1
37.5°	10124.1	10115.5	9827.7	9305.7	8536.8	7563.8	6902.2	6899.0	6743.3	7020.4	7750.6
40°	10626.7	10632.0	10457.0	9963.0	9156.4	8063.2	7297.4	7289.9	7085.9	7388.7	8104.0
42.5°	10823.2	10858.6	10903.7	10590.2	9805.1	8642.0	7768.9	7758.2	7563.8	7917.1	8519.6
45°	10837.2	10908.0	11187.3	11147.5	10462.4	9304.6	8371.4	8341.3	8201.7	8619.5	9015.8
47.5°	10716.9	10789.9	11253.8	11479.4	11049.8	10003.8	9075.9	9052.3	8932.0	9498.0	9552.7
50°	10453.8	10523.6	11116.4	11641.5	11533.1	10676.1	9887.8	9825.5	9761.1	10512.8	10167.0
52.5°	9960.8	10095.1	10932.7	11680.2	11822.0	11273.2	10741.6	10700.8	10736.2	11583.5	10782.4
55°	8793.4	8943.8	10459.1	11648.0	12035.7	11774.7	11595.4	11593.2	11776.9	12706.9	11442.9
57.5°	8139.4	8245.7	9494.7	11593.2	12289.1	12273.0	12440.6	12461.0	12818.6	13930.1	12134.5
60°	7770.0	7881.7	9006.1	11390.2	12682.2	12917.4	13302.9	13343.7	13877.5	15284.4	12966.8
62.5°	7433.8	7556.3	8703.2	10976.8	13145.1	13838.8	14336.1	14372.6	14998.7	16676.2	13771.2
65°	6859.3	6997.8	8259.7	10705.1	13566.0	15040.6	15649.5	15674.2	16286.3	18134.6	14386.5
67.5°	6047.4	6174.1	7423.1	10104.7	13877.5	16500.1	17395.7	17409.7	17563.3	19164.5	14701.2
70°	5099.1	5147.4	6231.0	8865.4	13509.1	17865.0	19309.5	19312.7	18727.4	19823.9	14649.7
72.5°	3582.7	3696.5	4523.4	6711.1	11609.3	17698.6	20302.9	20339.4	19268.7	19491.0	13479.1
75°	2197.3	2317.6	2837.4	4067.0	7365.1	13919.4	18758.6	19012.0	18253.8	17378.5	11011.1
77.5°	1469.2	1514.3	1851.5	2371.3	3336.7	8008.4	14422.0	14898.8	15164.1	12673.6	7041.8
80°	819.4	905.3	1227.5	1473.4	1484.2	3182.1	8647.4	8759.1	8436.9	5046.5	2172.6
82.5°	433.9	481.1	819.4	865.6	809.8	1065.4	3222.9	3226.1	2695.6	1353.2	645.4
85°	336.1	375.9	561.7	528.4	413.5	472.5	1063.2	1121.2	917.1	554.2	210.5
87.5°	167.5	208.3	381.2	335.1	162.2	135.3	380.2	406.0	361.9	216.9	76.2
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°	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1	5608.1
2.5°	5622.1	5631.8	5643.6	5630.7	5626.4	5609.2	5580.2	5573.8	5558.7	5559.8	5568.4
5°	5671.5	5687.6	5681.2	5631.8	5572.7	5490.0	5404.1	5331.1	5282.7	5279.5	5276.3
7.5°	5766.0	5776.7	5726.3	5585.6	5420.2	5229.0	5048.6	4890.7	4795.2	4771.5	4766.2
10°	5914.2	5912.1	5773.5	5490.0	5160.3	4818.8	4528.8	4309.7	4181.9	4144.3	4134.7
12.5°	6079.6	6054.9	5789.6	5316.0	4793.0	4319.4	3952.1	3708.3	3575.2	3532.2	3521.5
15°	6250.3	6189.1	5749.9	5056.1	4342.0	3781.4	3395.8	3170.3	3098.3	3074.7	3070.4
17.5°	6409.3	6291.2	5636.1	4703.9	3827.5	3245.5	2944.8	2854.5	2871.7	2902.9	2903.9
20°	6565.0	6359.9	5453.5	4259.3	3285.2	2804.1	2702.0	2768.6	2850.2	2913.6	2922.2
22.5°	6718.6	6408.2	5218.3	3745.9	2799.8	2556.0	2627.9	2749.3	2842.7	2911.5	2923.3
25°	6847.5	6420.0	4894.0	3198.2	2462.6	2462.6	2592.5	2707.4	2799.8	2867.4	2879.2
27.5°	6894.7	6340.6	4436.5	2691.3	2292.9	2419.6	2543.1	2638.7	2717.1	2789.0	2801.9
30°	6913.0	6193.4	3908.1	2284.3	2223.1	2373.4	2476.5	2558.1	2632.2	2699.9	2711.7
32.5°	6916.2	6016.2	3347.5	2053.4	2174.7	2325.1	2393.8	2465.8	2545.2	2572.1	2576.4
35°	6936.6	5806.8	2756.8	1935.2	2129.6	2280.0	2334.8	2386.3	2257.4	2267.1	2275.7
37.5°	6995.7	5599.5	2262.8	1868.7	2100.6	2256.4	2321.9	2135.0	2034.0	2010.4	2007.2
40°	7106.3	5378.3	1896.6	1815.0	2089.9	2268.2	2239.2	1993.2	1819.3	1689.3	1670.0
42.5°	7259.9	5139.9	1662.5	1779.5	2097.4	2325.1	2124.3	1856.8	1568.0	1484.2	1473.4
45°	7432.8	4889.7	1535.7	1754.8	2123.2	2369.1	2100.6	1675.4	1450.9	1387.5	1382.2
47.5°	7600.3	4583.6	1470.2	1744.1	2158.6	2333.7	2000.8	1619.5	1395.1	1361.8	1365.0
50°	7792.5	4307.6	1430.5	1732.3	2189.8	2311.1	1888.0	1590.5	1373.6	1414.4	1457.3
52.5°	7954.7	4021.9	1395.1	1708.6	2201.6	2271.4	1859.0	1595.9	1373.6	1452.0	1492.8
55°	8146.9	3806.1	1354.2	1659.2	2179.0	2158.6	1838.6	1628.1	1389.7	1340.3	1344.6
57.5°	8395.0	3735.2	1309.1	1581.9	2103.9	1994.3	1828.9	1659.2	1380.0	1348.9	1359.6
60°	8738.7	3810.3	1290.9	1481.0	1986.8	1865.4	1830.0	1643.1	1312.4	1258.7	1259.7
62.5°	9066.2	3894.1	1289.8	1417.6	1842.9	1750.5	1805.3	1590.5	1278.0	1246.8	1258.7
65°	9173.6	3809.3	1238.3	1346.7	1680.7	1613.1	1760.2	1534.7	1252.2	1205.0	1202.8
67.5°	9029.7	3546.2	1134.1	1231.8	1494.9	1453.0	1701.1	1468.1	1211.4	1172.7	1166.3
70°	8602.3	2958.7	1005.2	1080.4	1283.4	1272.6	1607.7	1390.8	1156.6	1123.3	1095.4
72.5°	7452.1	2108.2	847.3	898.9	1044.9	1079.3	1478.8	1289.8	1079.3	1007.4	964.4
75°	6120.4	1560.4	695.9	706.7	793.6	887.1	1301.6	1171.7	988.0	865.6	832.3
77.5°	3748.1	954.7	554.2	558.5	569.2	707.7	1071.8	1039.6	872.0	721.7	698.1
80°	1213.6	520.9	400.6	421.0	388.8	518.7	829.1	884.9	748.5	603.6	577.8
82.5°	461.8	303.9	270.6	284.6	269.6	348.0	604.6	708.8	613.2	496.2	403.8
85°	223.4	171.8	160.0	179.3	166.5	178.3	386.6	521.9	465.0	323.3	300.7
87.5°	79.5	76.2	61.2	82.7	70.9	63.4	118.1	263.1	307.1	222.3	198.7
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)