

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: P317568

Luminaire Tested: **GLEON-SA4C-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21851 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

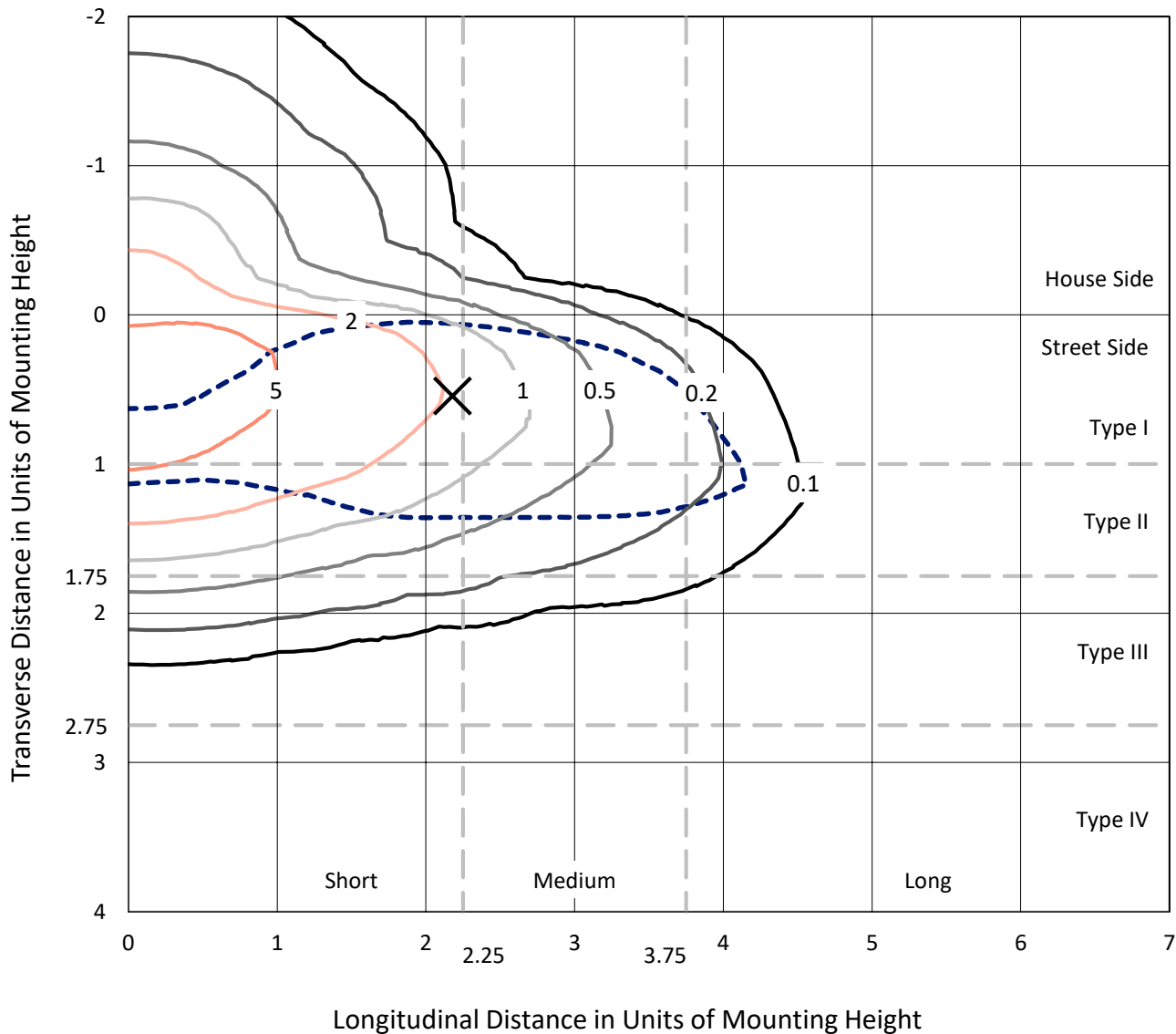
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

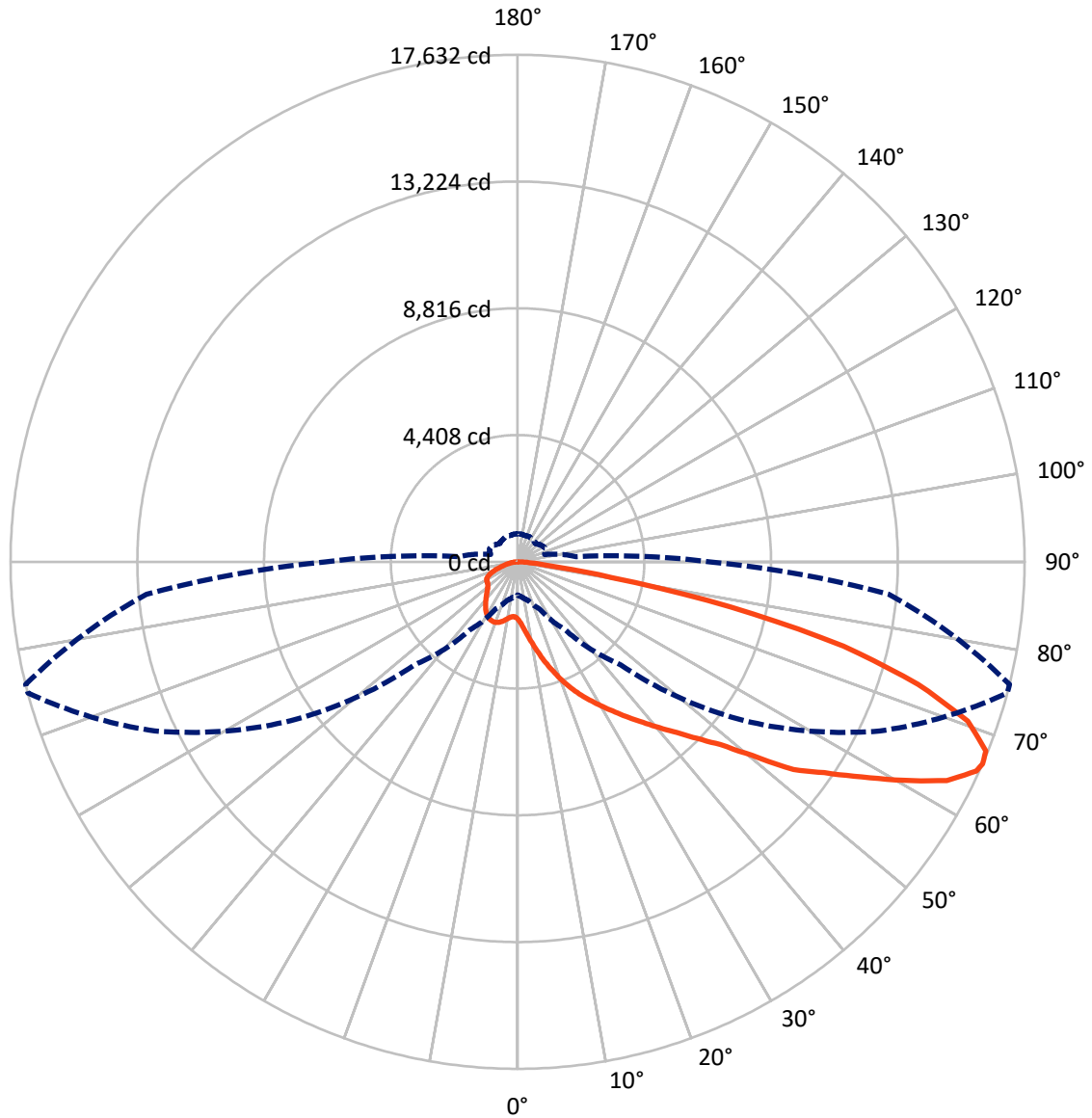
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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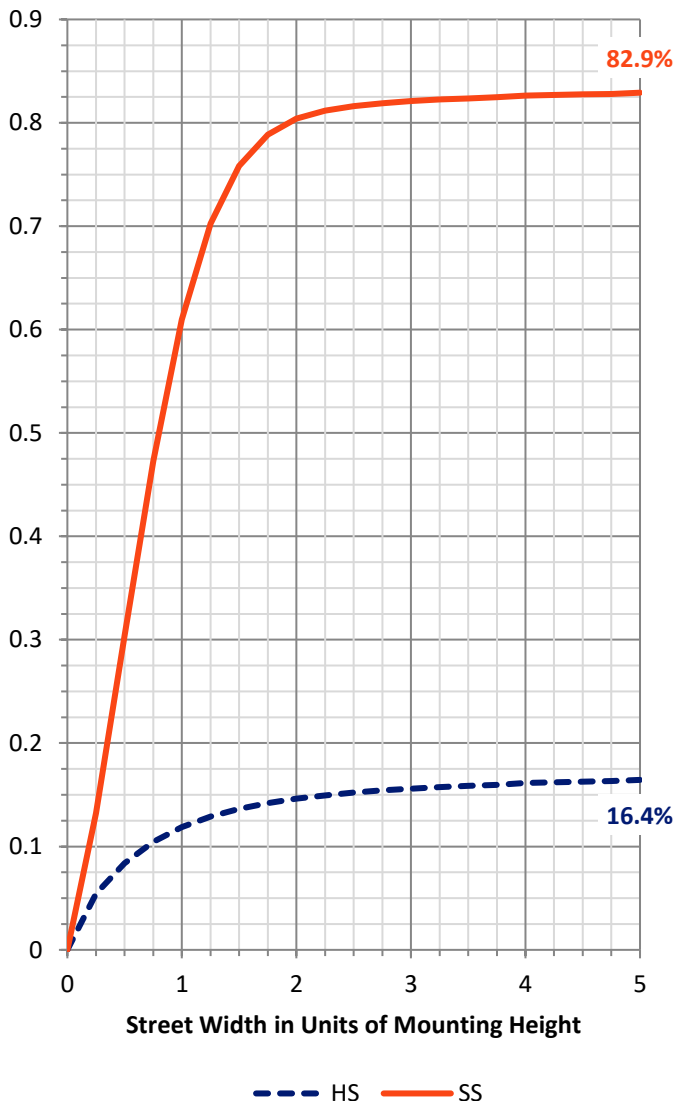
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3676.8	0.0	3676.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18174.2	0.0	18174.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	21851.0	0.0	21851.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	1.1
10°-20°	952.9	4.4
20°-30°	1851.7	8.5
30°-40°	3022.4	13.8
40°-50°	4129.4	18.9
50°-60°	4809.9	22.0
60°-70°	4312.2	19.7
70°-80°	2179.2	10.0
80°-90°	351.9	1.6
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°	21851.0	100.0
0°-180°	21851.0	100.0



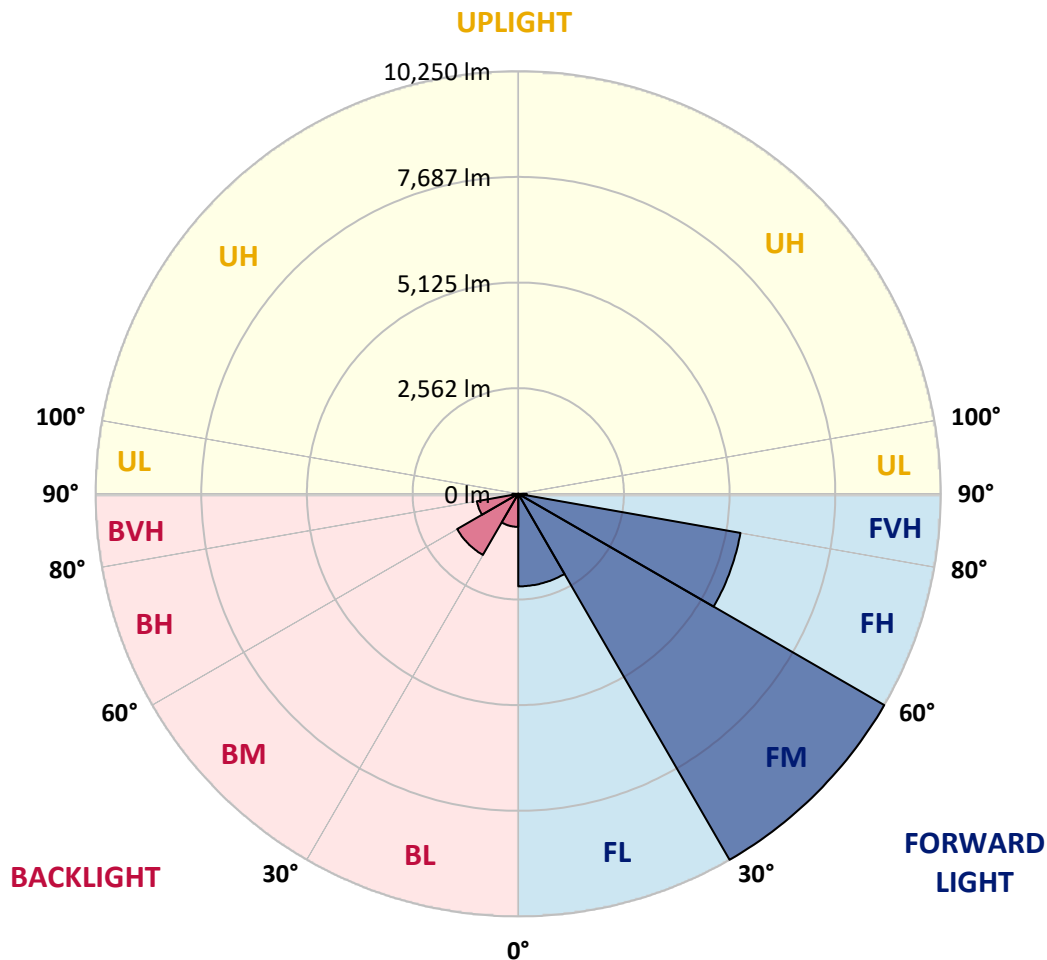
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2244.0	10.3			
FM (30°-60°)	10249.6	46.9			
FH (60°-80°)	5472.7	25.0			G3/7500
FVH (80°-90°)	207.8	1.0			G2/225
BL (0°-30°)	801.9	3.7	B2/1000		
BM (30°-60°)	1712.1	7.8	B2/2500		
BH (60°-80°)	1018.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	144.1	0.7			G2/225
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°	65°	75°	76°	85°
0°	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5
2.5°	2649.0	2609.0	2605.3	2546.7	2533.3	2421.3	2339.0	2252.9	2155.0	2135.7	2058.5
5°	3402.7	3399.0	3347.8	3252.1	3177.2	2985.8	2796.7	2596.4	2376.8	2341.2	2167.6
7.5°	4080.7	4074.8	4035.5	3932.4	3824.1	3588.9	3318.9	3011.8	2655.7	2603.0	2315.2
10°	4595.6	4593.3	4580.0	4504.3	4412.3	4186.8	3888.6	3469.5	2979.9	2907.9	2499.9
12.5°	4993.2	4997.6	5006.5	4979.8	4936.1	4743.9	4438.3	3954.6	3325.6	3254.4	2705.4
15°	5262.5	5275.8	5321.8	5359.6	5382.6	5264.7	4968.7	4450.9	3712.8	3627.5	2933.1
17.5°	5398.2	5413.0	5492.4	5606.7	5712.0	5700.1	5465.0	4924.2	4084.4	4002.1	3177.9
20°	5515.4	5526.5	5615.6	5752.8	5939.0	6021.3	5889.3	5379.7	4491.7	4393.8	3437.6
22.5°	5855.2	5869.3	5896.0	5973.9	6138.5	6289.9	6226.1	5810.7	4864.8	4773.6	3683.9
25°	6510.9	6528.0	6470.1	6404.1	6435.3	6540.6	6552.5	6203.8	5243.2	5140.1	3948.7
27.5°	7301.0	7325.4	7226.8	7056.9	6908.5	6867.7	6853.7	6525.8	5604.4	5485.0	4210.6
30°	8074.7	8117.0	7988.6	7768.3	7496.1	7304.7	7163.0	6841.0	5960.5	5846.3	4457.6
32.5°	8830.6	8813.5	8627.3	8412.2	8093.2	7853.6	7510.9	7179.3	6361.1	6229.8	4703.1
35°	9348.4	9354.3	9181.5	8926.3	8622.1	8438.2	7976.8	7544.3	6769.8	6648.9	4982.0
37.5°	9789.0	9761.6	9565.7	9327.6	9065.8	8987.1	8522.0	7946.3	7212.7	7080.6	5278.8
40°	9935.9	9904.0	9775.7	9604.3	9394.4	9387.7	9123.6	8401.8	7713.4	7582.9	5613.3
42.5°	9846.9	9806.1	9753.4	9706.7	9642.1	9671.8	9688.9	8935.9	8263.8	8117.7	6000.6
45°	9518.3	9456.7	9493.8	9595.4	9735.6	9903.3	10199.2	9527.2	8880.3	8757.9	6455.3
47.5°	9013.1	8957.4	9073.2	9290.5	9671.8	10096.1	10682.2	10180.0	9616.2	9494.5	7102.9
50°	8302.4	8318.7	8484.2	8879.6	9455.9	10185.2	11277.1	11044.2	10685.9	10572.4	7986.4
52.5°	7136.3	7139.3	7605.1	8254.2	9073.2	10139.2	11607.2	12148.7	12146.5	12009.3	8827.6
55°	6053.2	6119.3	6487.9	7350.7	8453.0	9955.2	11837.9	12685.8	13105.7	12944.7	9611.7
57.5°	4995.4	5034.0	5383.4	6249.8	7568.0	9464.8	12074.6	13330.5	14211.0	14109.4	10586.5
60°	3792.2	3851.5	4212.8	5013.2	6436.0	8594.7	12096.8	14003.3	15532.2	15429.8	11674.7
62.5°	2461.4	2563.7	2902.0	3652.0	5066.6	7343.3	11580.5	14443.2	16784.4	16748.0	12640.6
65°	1414.6	1491.8	1727.0	2305.6	3495.4	5772.1	10352.8	14274.1	17555.1	17534.3	13001.8
66°	1155.8	1204.0	1384.2	1801.9	2884.2	5068.8	9639.2	13917.2	17631.5	17632.3	12960.3
67.5°	924.3	945.8	1026.7	1290.0	2128.3	4017.7	8364.0	13130.2	17536.6	17562.5	12692.5
70°	764.8	775.9	801.2	865.0	1161.7	2422.8	5936.8	11085.0	16583.3	16603.4	11647.3
72.5°	686.2	692.9	702.5	711.4	819.7	1353.8	3626.0	8867.7	14539.6	14565.6	10054.6
75°	621.6	625.4	623.9	624.6	687.7	862.7	1873.8	6620.7	11756.3	11704.4	7702.3
77.5°	546.0	549.7	542.3	543.8	608.3	663.2	932.5	4634.9	7933.7	7567.3	4339.6
80°	461.4	464.4	461.4	466.6	529.7	500.7	542.3	2607.5	3508.1	3318.1	1543.0
82.5°	348.7	361.3	370.2	390.9	436.2	356.1	362.7	1015.5	1068.2	1017.0	473.3
85°	152.8	186.2	278.9	299.0	327.9	213.6	238.1	413.9	434.7	421.4	172.1
87.5°	40.1	43.8	138.0	173.6	181.7	96.4	123.9	188.4	198.8	188.4	57.1
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°	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5
2.5°	2017.7	1981.4	1916.1	1858.3	1814.5	1784.8	1755.1	1740.3	1731.4	1722.5	1724.0
5°	2082.3	2008.8	1896.8	1817.5	1772.9	1744.8	1729.9	1724.0	1720.3	1711.4	1711.4
7.5°	2179.5	2075.6	1921.3	1839.7	1804.8	1783.3	1774.4	1771.5	1767.0	1756.6	1758.1
10°	2301.9	2156.5	1972.5	1893.1	1861.2	1837.5	1824.9	1820.4	1812.3	1800.4	1801.9
12.5°	2445.8	2256.6	2040.0	1956.9	1918.3	1886.4	1865.7	1853.1	1839.0	1823.4	1824.1
15°	2603.0	2365.7	2112.7	2014.0	1961.4	1916.9	1883.5	1862.0	1839.7	1820.4	1819.7
17.5°	2762.5	2471.0	2168.3	2045.2	1974.0	1915.4	1870.1	1836.7	1809.3	1785.6	1783.3
20°	2934.6	2565.9	2199.5	2042.2	1950.2	1880.5	1820.4	1778.9	1748.5	1724.7	1721.0
22.5°	3109.7	2655.0	2204.7	2011.8	1897.6	1812.3	1749.2	1703.2	1672.1	1647.6	1638.7
25°	3269.9	2724.0	2183.2	1953.2	1824.1	1732.1	1670.6	1623.8	1598.6	1569.7	1560.8
27.5°	3416.1	2772.2	2140.1	1878.3	1741.8	1651.3	1593.4	1553.4	1525.9	1503.7	1496.2
30°	3547.4	2798.1	2069.7	1789.3	1657.2	1574.9	1525.9	1498.5	1474.7	1446.5	1441.4
32.5°	3672.0	2798.1	1979.2	1692.1	1573.4	1507.4	1478.4	1461.4	1434.7	1407.2	1399.8
35°	3796.6	2781.1	1872.3	1590.5	1496.2	1459.2	1457.7	1437.6	1396.8	1359.8	1350.1
37.5°	3927.9	2746.2	1752.2	1495.5	1433.2	1437.6	1450.3	1405.7	1347.9	1295.2	1281.1
40°	4076.3	2698.0	1627.5	1413.2	1380.5	1428.0	1430.2	1359.8	1247.0	1198.8	1186.2
42.5°	4250.6	2649.8	1511.8	1340.5	1339.0	1399.1	1392.4	1260.3	1192.8	1168.4	1161.7
45°	4479.8	2622.3	1402.0	1271.5	1306.3	1352.3	1327.9	1205.5	1177.3	1163.2	1157.2
47.5°	4841.1	2636.4	1301.1	1216.6	1273.7	1305.6	1207.7	1183.2	1163.2	1146.1	1140.2
50°	5293.6	2628.3	1219.5	1178.7	1236.6	1256.6	1153.5	1154.3	1143.9	1124.6	1115.7
52.5°	5634.1	2564.5	1166.9	1157.2	1204.0	1169.8	1119.4	1126.1	1120.9	1092.7	1083.1
55°	5962.7	2509.6	1140.2	1149.1	1180.2	1061.5	1079.3	1095.7	1090.5	1063.0	1058.6
57.5°	6371.5	2499.2	1123.9	1151.3	1160.2	1007.4	1040.8	1062.3	1058.6	1046.7	1044.5
60°	6872.2	2502.2	1109.0	1155.0	1137.9	967.3	1004.4	1031.9	1034.1	1031.9	1030.4
62.5°	7147.4	2421.3	1071.9	1144.6	1098.6	932.5	966.6	1006.6	1007.4	1011.8	1011.1
65°	6913.7	2179.5	1002.9	1108.3	1032.6	903.5	933.9	977.7	966.6	986.6	986.6
66°	6686.7	2040.0	968.8	1084.5	1004.4	892.4	923.6	962.9	948.8	976.2	976.2
67.5°	6223.1	1804.8	907.2	1034.1	964.4	876.8	911.7	938.4	919.1	959.9	956.9
70°	5376.0	1396.1	783.4	919.9	898.3	853.8	895.4	889.4	861.3	923.6	911.7
72.5°	4532.5	1060.8	629.1	770.0	798.2	824.9	872.4	827.1	791.5	835.3	809.3
75°	3517.0	797.5	497.0	598.6	674.3	779.7	844.9	755.2	704.0	699.5	685.4
77.5°	1901.3	547.5	393.9	457.0	535.6	723.3	826.4	678.0	600.9	583.1	571.9
80°	752.9	356.1	286.3	346.4	374.6	641.7	781.9	588.3	495.5	477.7	460.7
82.5°	310.8	210.7	184.7	232.2	244.1	548.9	701.8	482.2	382.8	529.7	562.3
85°	133.5	115.7	109.8	120.2	138.0	385.0	558.6	367.9	413.2	368.7	293.0
87.5°	40.1	49.0	46.7	46.0	50.4	92.0	297.5	204.7	303.4	115.0	86.1
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)