

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: P651861

Luminaire Tested: **GALN-SA4A-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9085.3 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

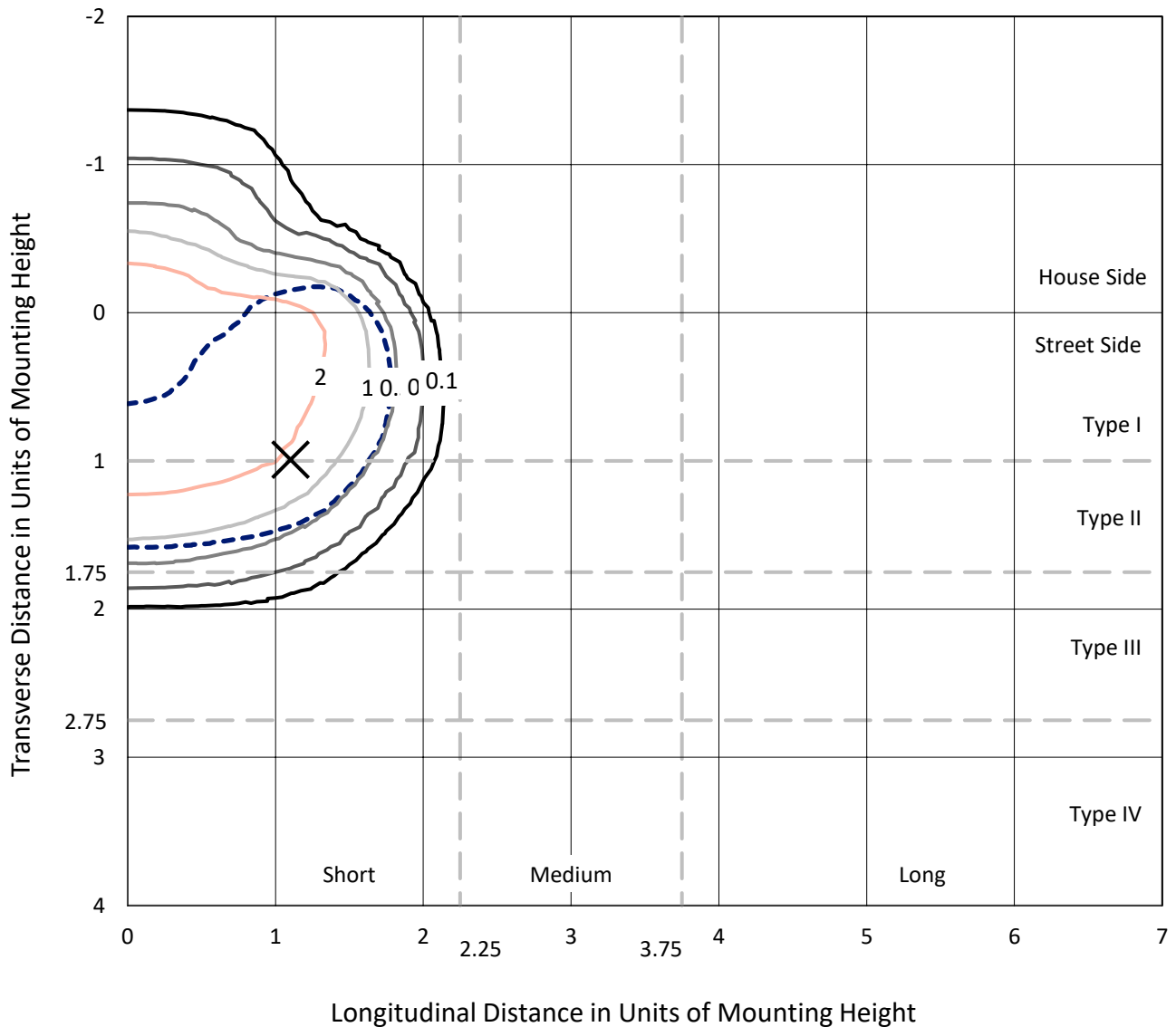
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

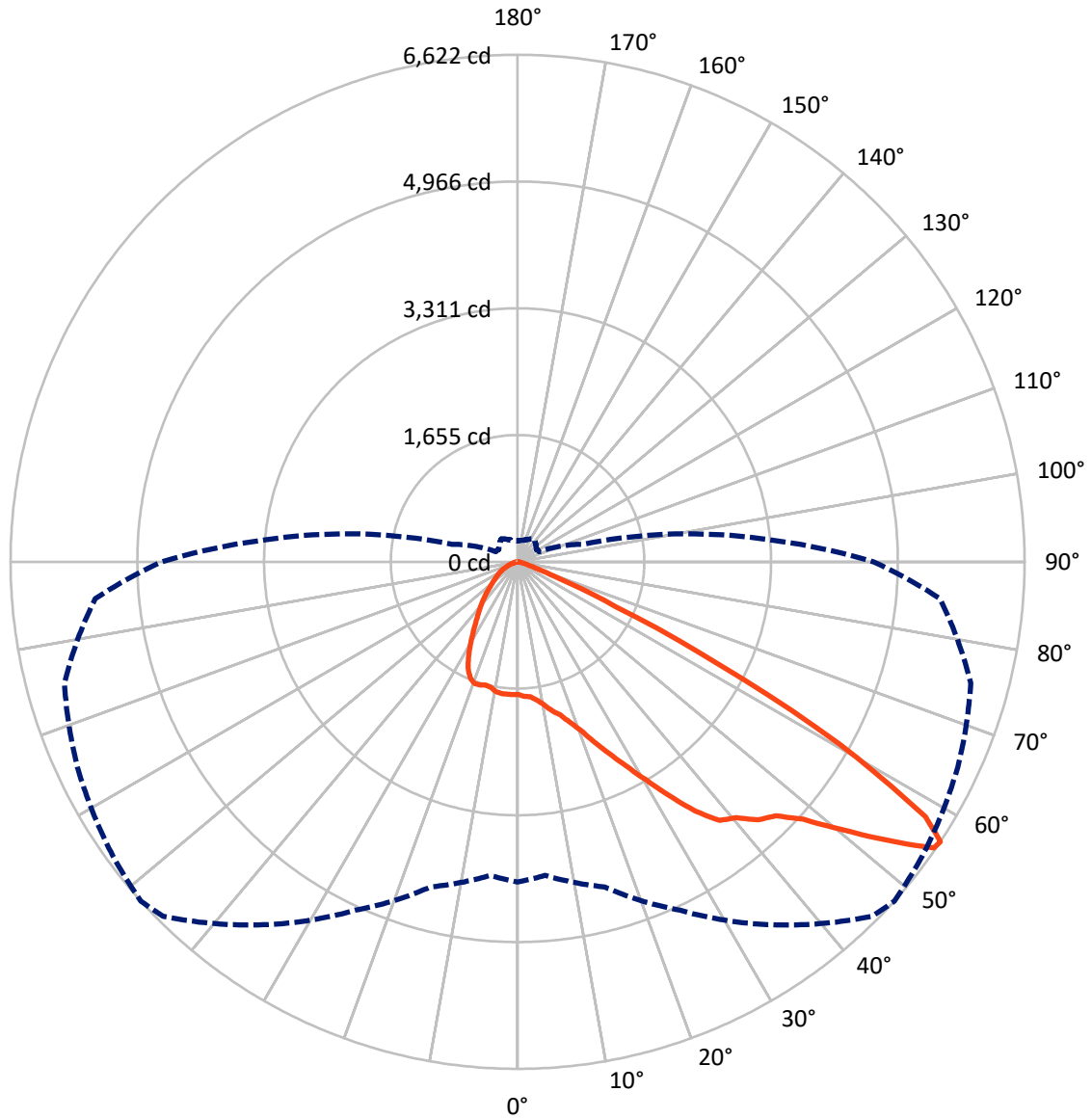
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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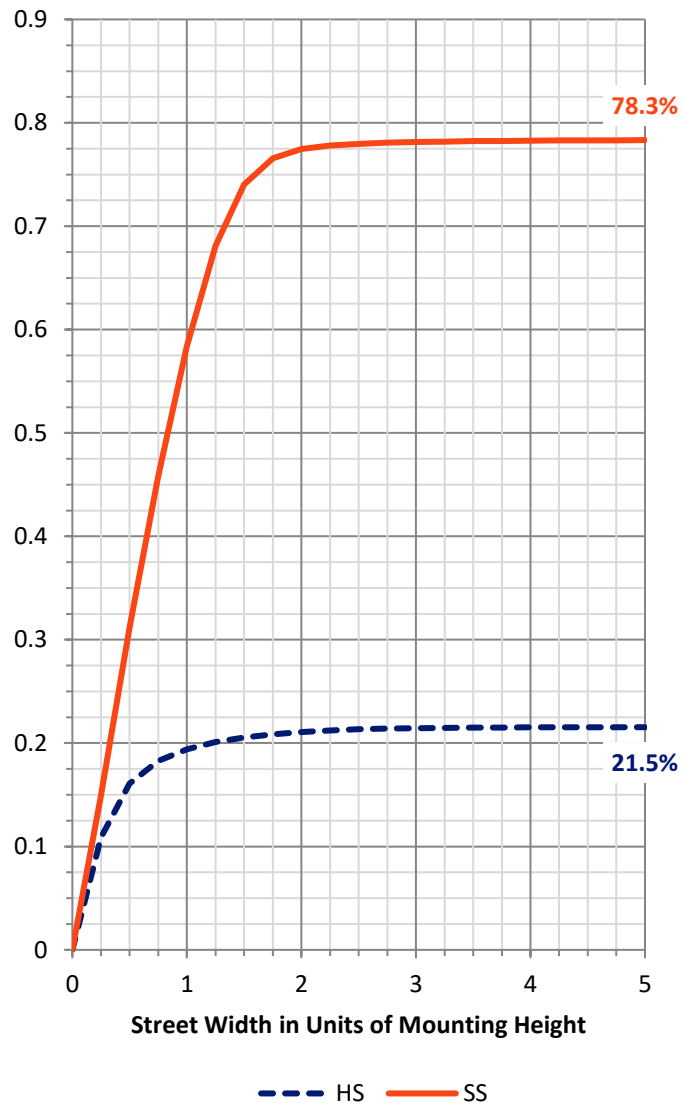
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1975.9	0.0	1975.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7109.4	0.0	7109.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	9085.3	0.0	9085.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.9
10°-20°	540.2	5.9
20°-30°	979.8	10.8
30°-40°	1539.1	16.9
40°-50°	2245.3	24.7
50°-60°	2705.2	29.8
60°-70°	792.1	8.7
70°-80°	100.5	1.1
80°-90°	14.1	0.2
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°	9085.3	100.0
0°-180°	9085.3	100.0

Coefficient of Utilization

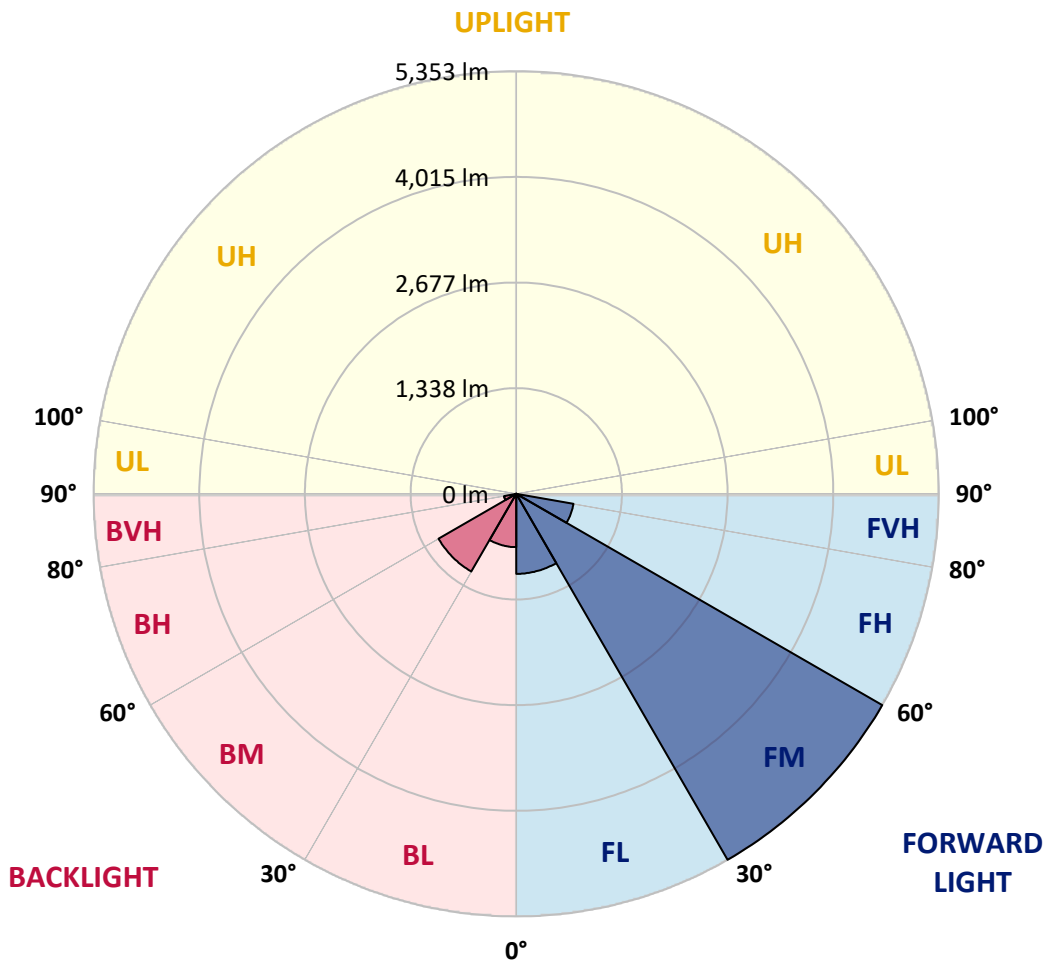


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.7	11.2			
FM (30°-60°)	5353.1	58.9			
FH (60°-80°)	735.5	8.1			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	675.4	7.4	B2/1000		
BM (30°-60°)	1136.5	12.5	B2/2500		
BH (60°-80°)	157.0	1.7	B1/500		G1/500
BVH (80°-90°)	7.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3
2.5°	1766.8	1758.4	1758.4	1745.2	1760.1	1753.5	1758.4	1741.9	1758.4	1733.6	1753.5
5°	1775.0	1776.7	1770.1	1778.3	1778.3	1788.2	1771.7	1786.6	1794.9	1776.7	1768.4
7.5°	1818.0	1821.4	1819.7	1813.0	1826.3	1824.6	1823.0	1811.4	1814.7	1808.1	1798.1
10°	1902.3	1900.7	1909.0	1892.4	1882.5	1894.1	1897.4	1879.2	1866.0	1861.0	1829.6
12.5°	2024.8	2004.9	1993.3	1976.9	1981.8	1965.2	1995.0	1963.6	1957.0	1927.2	1895.8
15°	2124.0	2120.7	2122.4	2095.9	2066.2	2072.7	2072.7	2056.2	2046.3	2009.9	1965.2
17.5°	2327.6	2258.0	2273.0	2239.8	2215.0	2213.3	2198.5	2201.8	2175.3	2099.2	2031.4
20°	2486.3	2456.6	2433.3	2377.2	2339.1	2350.7	2344.0	2327.6	2319.2	2220.0	2124.0
22.5°	2628.6	2638.6	2600.5	2585.6	2532.7	2537.6	2550.8	2536.0	2473.1	2370.5	2228.2
25°	2828.8	2817.2	2765.9	2747.7	2698.1	2716.3	2767.6	2756.0	2716.3	2531.0	2309.3
27.5°	3065.3	3025.6	3035.5	2952.8	2904.8	2956.1	3017.3	3075.2	2962.8	2719.5	2405.3
30°	3232.4	3191.0	3187.7	3184.4	3172.8	3232.4	3303.5	3356.4	3265.4	2908.2	2564.0
32.5°	3315.1	3325.1	3353.2	3343.2	3444.1	3566.5	3641.0	3717.1	3602.9	3215.8	2774.2
35°	3535.1	3472.2	3535.1	3541.7	3646.0	3905.7	4000.0	4182.0	4153.8	3650.9	3030.5
37.5°	3664.2	3659.2	3667.4	3730.3	3831.3	4152.2	4286.2	4426.8	4373.8	3912.2	3349.9
40°	3877.5	3890.8	3889.1	3937.1	4047.9	4337.5	4392.0	4506.2	4511.1	4274.6	3819.7
42.5°	4220.0	4167.1	4132.3	4182.0	4337.5	4497.9	4607.1	4583.9	4747.7	4714.6	4423.4
45°	4527.7	4559.1	4507.8	4590.5	4646.8	4732.8	4729.4	4779.1	4987.6	5144.7	4878.4
47.5°	4815.5	4835.3	4860.1	4916.4	5038.9	5052.1	5024.0	5002.4	5290.2	5452.4	5230.7
50°	4987.6	5005.7	5121.5	5222.4	5450.7	5480.5	5497.0	5442.4	5637.6	5655.9	5563.2
52.5°	4941.2	4961.1	5123.2	5455.7	5819.6	6092.5	6042.9	5950.3	5938.7	6009.9	5870.9
55°	4531.0	4512.8	4736.1	5253.9	5935.4	6590.5	6597.1	6499.5	6312.6	6264.6	5824.6
56°	4182.0	4110.8	4395.3	5020.6	5786.5	6547.5	6621.9	6517.8	6342.4	6127.3	5538.4
57.5°	3425.9	3493.8	3776.6	4294.4	5272.1	6238.1	6281.2	6256.4	6124.0	5763.4	4873.4
60°	1889.1	2008.2	2258.0	2891.6	3753.5	4787.4	4822.1	5024.0	5048.8	4413.5	3353.2
62.5°	802.3	789.1	1048.8	1515.3	2137.3	2889.9	2954.5	3161.2	3199.3	2544.2	1682.3
65°	325.9	344.1	474.7	762.6	1129.9	1316.8	1407.7	1475.6	1601.3	1050.4	620.3
67.5°	215.0	213.4	279.5	435.0	608.8	587.3	587.3	620.3	574.0	428.5	268.0
70°	153.8	158.8	200.2	301.1	378.8	281.2	269.6	258.1	292.8	282.9	216.7
72.5°	100.9	107.6	134.0	180.3	196.9	153.8	153.8	185.3	241.5	228.2	177.0
75°	66.2	67.8	82.7	104.2	97.6	79.4	87.7	124.0	175.3	168.7	125.7
77.5°	44.7	46.3	56.3	67.8	54.6	44.7	47.9	62.8	86.0	86.0	66.2
80°	16.6	18.2	23.1	21.5	24.8	31.5	34.7	43.0	51.3	51.3	44.7
82.5°	0.0	1.7	5.0	11.6	18.2	24.8	28.1	33.1	38.0	43.0	41.4
85°	0.0	1.7	5.0	8.2	13.2	14.9	16.6	11.6	9.9	9.9	8.2
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.3	1.7	1.7
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°	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3
2.5°	1735.3	1733.6	1733.6	1728.7	1738.6	1733.6	1736.9	1735.3	1713.8	1730.4	1718.8
5°	1753.5	1765.1	1746.8	1743.6	1730.4	1735.3	1735.3	1718.8	1733.6	1732.0	1728.7
7.5°	1799.8	1780.0	1760.1	1740.3	1736.9	1732.0	1713.8	1707.1	1718.8	1705.5	1725.4
10°	1819.7	1823.0	1793.2	1766.8	1741.9	1707.1	1682.3	1667.5	1649.3	1669.1	1680.7
12.5°	1910.7	1877.5	1826.3	1784.9	1700.6	1665.9	1641.0	1634.4	1665.9	1672.4	1660.9
15°	1942.1	1937.2	1871.0	1778.3	1690.7	1649.3	1654.2	1641.0	1644.3	1627.8	1631.1
17.5°	2006.6	1950.4	1872.6	1756.8	1689.0	1679.1	1649.3	1596.4	1566.5	1553.3	1564.9
20°	2077.7	2023.1	1910.7	1765.1	1703.9	1677.4	1579.8	1515.3	1454.1	1421.0	1422.6
22.5°	2140.6	2072.7	1894.1	1768.4	1717.1	1607.9	1490.5	1363.1	1287.0	1235.7	1237.4
25°	2216.7	2120.7	1900.7	1775.0	1682.3	1497.1	1328.4	1204.3	1113.3	1078.6	1090.1
27.5°	2259.7	2150.5	1937.2	1789.9	1591.3	1340.0	1158.0	1042.2	989.3	972.7	971.0
30°	2388.7	2216.7	1981.8	1760.1	1439.2	1171.2	1002.5	931.3	880.0	865.1	868.5
32.5°	2580.6	2337.5	2039.7	1682.3	1283.7	1020.6	901.6	848.7	800.6	772.5	769.3
35°	2741.1	2544.2	2100.9	1561.6	1103.4	904.8	830.4	764.3	691.5	660.0	651.8
37.5°	3047.1	2777.5	2087.6	1379.7	931.3	818.9	754.3	673.3	610.4	567.4	562.5
40°	3454.1	3050.4	2023.1	1158.0	804.0	742.8	673.3	595.5	517.8	481.4	478.1
42.5°	3948.7	3384.6	1905.7	933.0	676.6	666.7	603.8	514.4	445.0	418.5	420.2
45°	4350.7	3670.8	1786.6	749.3	582.3	592.2	537.7	453.3	405.3	383.7	383.7
47.5°	4708.0	3864.3	1657.5	618.7	494.6	517.8	469.8	420.2	378.8	362.3	358.9
50°	5052.1	4061.2	1528.5	501.2	421.8	445.0	440.0	400.3	367.3	347.4	349.0
52.5°	5267.1	4092.6	1364.8	410.2	368.9	395.4	411.9	375.5	339.1	327.6	324.2
55°	5004.1	3687.3	1058.7	337.5	312.7	347.4	378.8	337.5	309.3	289.5	287.9
56°	4650.1	3296.9	885.0	311.0	296.1	334.1	367.3	322.6	291.2	279.5	271.3
57.5°	3937.1	2698.1	653.5	276.3	274.6	311.0	349.0	307.7	271.3	261.4	261.4
60°	2454.9	1518.6	395.4	231.6	238.2	276.3	314.3	274.6	241.5	241.5	246.5
62.5°	1118.3	631.9	239.9	196.9	205.1	238.2	279.5	248.1	229.9	248.1	251.5
65°	380.5	273.0	173.7	157.2	162.1	196.9	239.9	251.5	249.8	261.4	268.0
67.5°	213.4	175.3	145.6	130.7	127.4	145.6	196.9	251.5	241.5	236.6	239.9
70°	180.3	148.9	129.0	115.8	110.8	117.5	152.2	190.2	170.4	165.4	162.1
72.5°	145.6	124.0	112.5	104.2	89.3	76.1	69.5	72.7	81.1	86.0	94.3
75°	102.6	94.3	94.3	84.4	64.5	47.9	38.0	31.5	21.5	14.9	16.6
77.5°	57.9	57.9	59.5	51.3	41.4	31.5	23.1	16.6	8.2	3.3	1.7
80°	39.7	43.0	46.3	41.4	34.7	28.1	19.8	11.6	5.0	0.0	0.0
82.5°	39.7	44.7	47.9	41.4	34.7	26.5	19.8	11.6	5.0	1.7	0.0
85°	8.2	9.9	11.6	13.2	19.8	19.8	14.9	9.9	5.0	1.7	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
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)