

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: P651263

Luminaire Tested: **GALN-SA2D-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12974.1 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

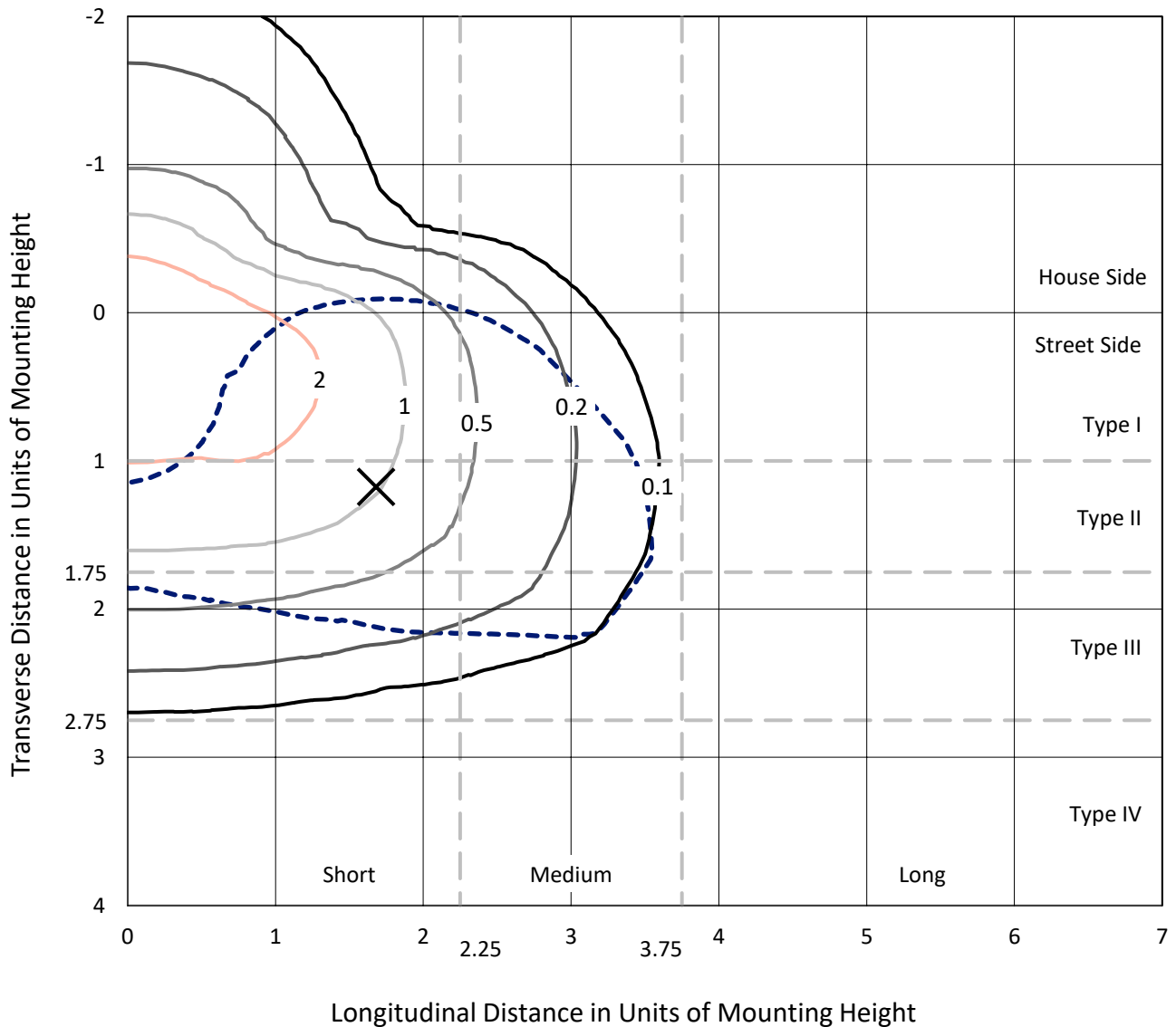
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

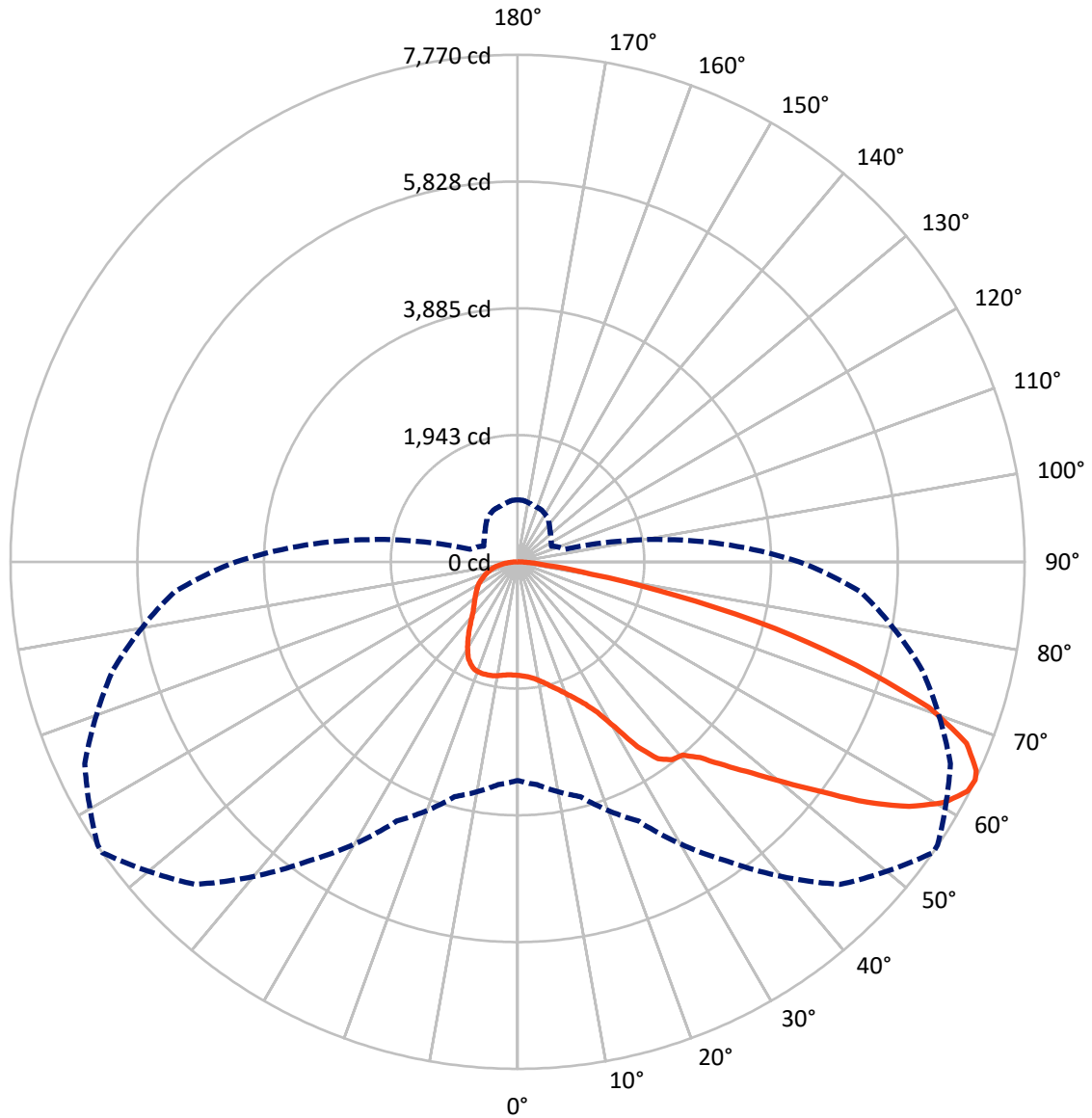
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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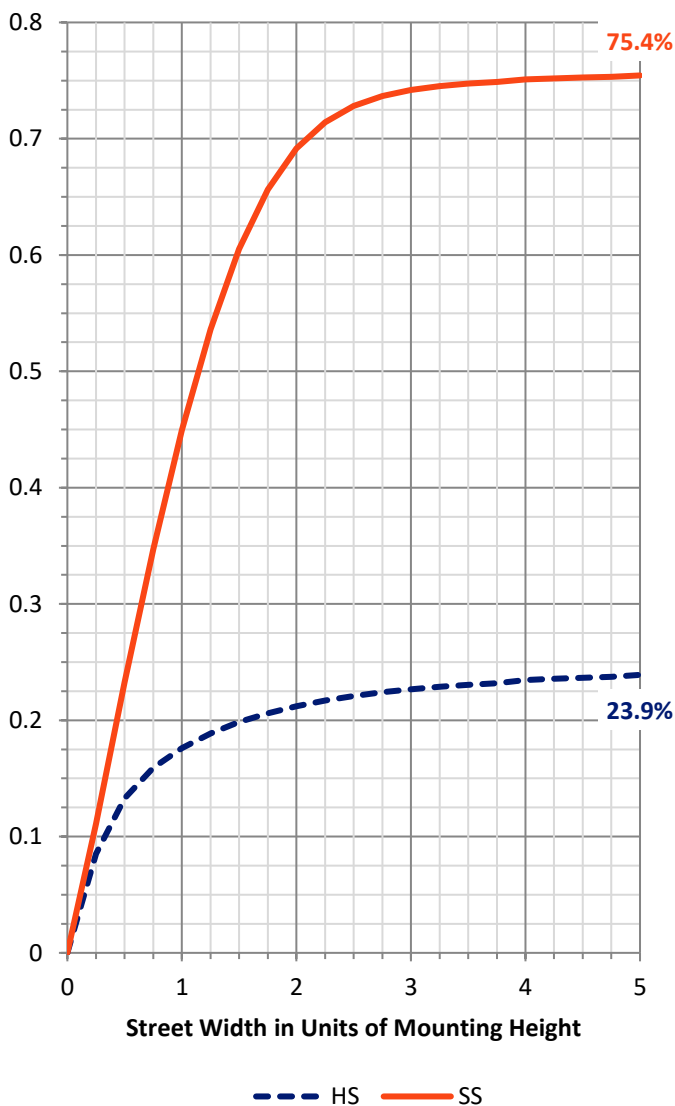
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3151.7	0.0	3151.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9822.4	0.0	9822.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	12974.1	0.0	12974.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	1.3
10°-20°	534.3	4.1
20°-30°	951.2	7.3
30°-40°	1463.5	11.3
40°-50°	2074.6	16.0
50°-60°	3002.9	23.1
60°-70°	3107.7	24.0
70°-80°	1455.3	11.2
80°-90°	215.4	1.7
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°	12974.1	100.0
0°-180°	12974.1	100.0

Coefficient of Utilization

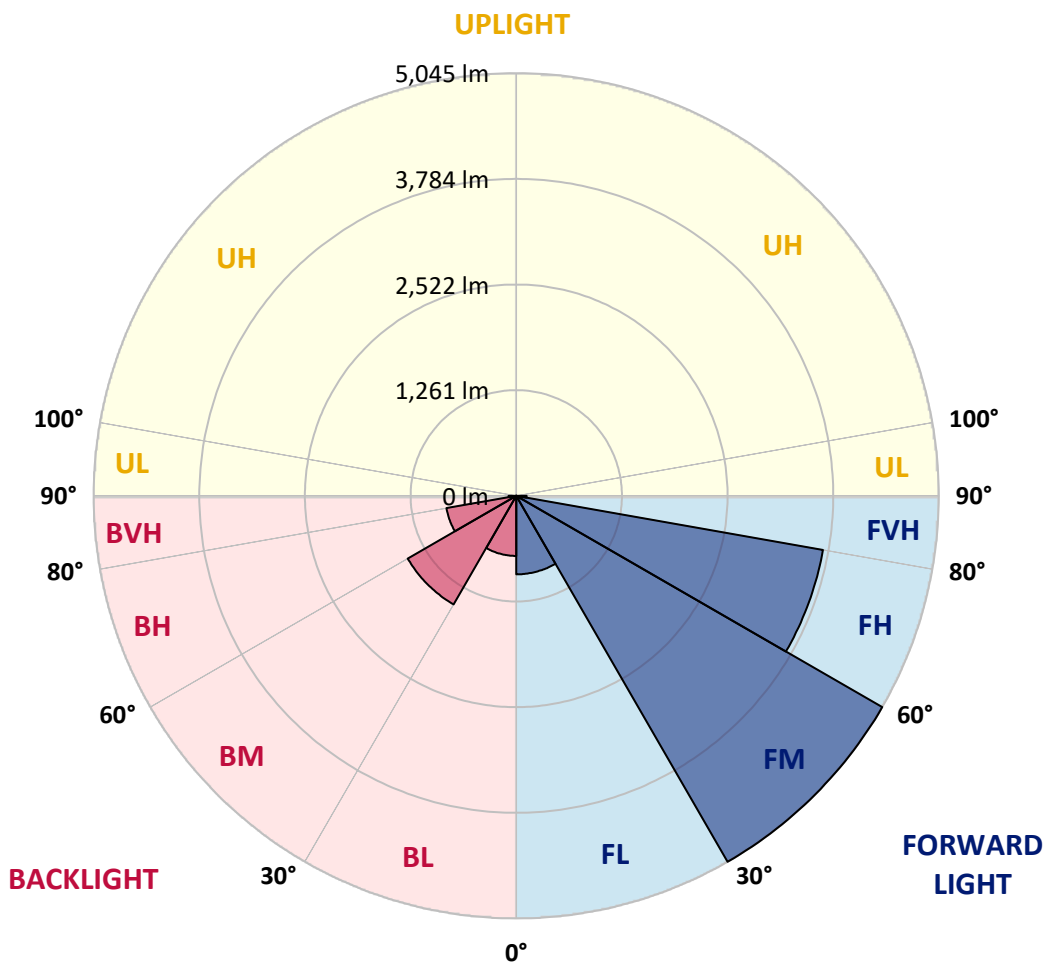


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.9	7.2			
FM (30°-60°)	5044.7	38.9			
FH (60°-80°)	3717.5	28.7			G2/5000
FVH (80°-90°)	123.4	1.0			G2/225
BL (0°-30°)	717.8	5.5	B2/1000		
BM (30°-60°)	1496.2	11.5	B2/2500		
BH (60°-80°)	845.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	92.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7
2.5°	1760.3	1759.5	1761.7	1759.5	1761.0	1755.9	1753.7	1755.2	1753.1	1749.4	1742.9
5°	1782.0	1781.2	1782.0	1779.1	1780.5	1777.6	1772.6	1774.0	1770.4	1762.4	1753.1
7.5°	1818.8	1816.0	1816.0	1815.2	1812.4	1808.0	1804.4	1802.9	1799.3	1789.2	1774.8
10°	1866.6	1866.6	1867.3	1861.5	1865.1	1857.2	1853.6	1852.8	1840.5	1827.5	1807.3
12.5°	1929.5	1933.1	1930.9	1928.1	1926.6	1923.7	1911.4	1914.3	1900.6	1878.1	1853.6
15°	2007.6	2013.4	2009.7	2008.3	2004.7	1993.8	1988.8	1986.6	1968.5	1936.0	1903.4
17.5°	2111.0	2103.8	2100.9	2097.3	2082.1	2074.2	2065.4	2064.0	2048.1	2009.7	1959.1
20°	2201.4	2211.5	2205.8	2202.2	2186.9	2171.8	2165.2	2163.1	2149.3	2107.4	2026.4
22.5°	2309.1	2311.3	2313.5	2304.8	2297.6	2286.0	2274.5	2270.9	2265.7	2222.3	2123.3
25°	2424.2	2432.8	2425.6	2416.9	2408.2	2407.5	2418.4	2416.9	2414.8	2372.8	2252.0
27.5°	2611.5	2619.4	2621.6	2612.1	2578.9	2581.8	2606.4	2614.3	2647.6	2578.2	2417.6
30°	2717.0	2725.0	2743.1	2778.5	2831.3	2877.6	2936.9	2955.0	2986.8	2855.9	2614.3
32.5°	2782.1	2785.1	2817.6	2883.4	3041.7	3214.6	3375.9	3382.4	3402.6	3218.9	2794.4
35°	2884.8	2887.0	2913.1	2985.4	3171.2	3459.0	3708.6	3716.5	3699.9	3331.8	2878.3
37.5°	3011.4	3017.2	3033.8	3093.9	3315.9	3663.7	3846.6	3840.9	3693.3	3421.4	3026.6
40°	3195.8	3195.8	3176.3	3257.3	3468.5	3780.9	3895.2	3885.0	3846.0	3681.1	3252.2
42.5°	3358.5	3355.6	3401.9	3456.8	3659.4	3961.7	4098.4	4115.0	4179.3	4007.2	3509.0
45°	3570.4	3583.4	3609.5	3709.3	3984.1	4270.5	4447.0	4462.9	4553.9	4391.3	3809.1
47.5°	3784.5	3788.8	3870.5	4003.6	4386.2	4689.2	4833.8	4859.9	4943.1	4840.4	4132.3
50°	3936.4	3977.6	4108.5	4318.2	4800.6	5199.8	5312.6	5343.7	5490.5	5329.2	4509.1
52.5°	4096.9	4137.4	4297.3	4616.9	5276.4	5721.9	5860.8	5881.8	6034.3	5823.9	4894.6
55°	4234.4	4271.9	4453.4	4881.6	5655.4	6254.9	6506.6	6482.0	6555.1	6205.1	5191.8
57.5°	4256.7	4287.1	4515.7	5050.8	5940.3	6712.0	7072.9	7087.4	7002.7	6490.0	5437.0
60°	4083.1	4145.4	4407.8	5032.7	6068.3	7030.2	7495.2	7505.3	7265.2	6636.1	5534.6
62.5°	3775.8	3769.3	4086.8	4742.0	5889.0	7102.5	7744.0	7733.2	7367.9	6565.9	5439.9
64°	3351.3	3429.4	3725.9	4384.7	5599.7	6991.1	7770.0	7764.2	7318.7	6419.8	5278.6
65°	3092.4	3088.1	3380.9	4092.6	5311.8	6823.4	7723.7	7715.8	7216.0	6288.9	5153.5
67.5°	2232.5	2242.6	2531.9	3158.2	4318.2	6167.4	7422.2	7392.5	6811.1	5855.0	4677.6
70°	1352.4	1358.1	1585.3	2095.1	3099.6	4985.7	6690.3	6691.8	6191.3	5207.1	3981.2
72.5°	712.3	727.5	818.6	1189.7	1882.5	3498.1	5427.6	5556.3	5315.5	4444.0	3145.2
75°	396.3	398.5	462.9	586.5	960.4	1957.7	4079.5	4116.4	4208.3	3576.9	2325.8
77.5°	302.3	306.6	326.9	379.0	522.8	907.6	2469.0	2654.1	2965.8	2521.8	1327.1
80°	245.2	249.5	266.8	298.0	347.8	430.3	1147.0	1246.8	1587.4	1119.5	517.8
82.5°	190.9	188.0	210.4	230.7	253.1	254.6	470.8	520.7	646.6	481.6	224.2
85°	141.7	141.7	159.8	155.5	163.4	148.9	207.6	229.3	258.9	204.7	104.1
87.5°	56.4	62.2	104.9	94.0	73.1	58.6	76.7	81.0	89.7	80.3	43.4
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°	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7	1740.7
2.5°	1743.6	1745.8	1740.7	1737.1	1735.7	1733.5	1731.4	1732.0	1735.0	1737.8	1737.1
5°	1752.3	1753.1	1744.3	1740.0	1737.1	1734.2	1734.2	1736.4	1742.2	1746.5	1746.5
7.5°	1774.0	1774.0	1761.7	1753.7	1749.4	1744.3	1742.9	1743.6	1747.9	1753.7	1754.5
10°	1808.0	1805.1	1789.2	1776.9	1769.0	1756.7	1745.8	1740.0	1742.2	1745.8	1745.8
12.5°	1849.2	1841.3	1821.0	1804.4	1784.9	1761.7	1739.3	1727.8	1727.0	1730.6	1729.2
15°	1893.3	1884.7	1856.4	1826.1	1792.1	1758.1	1731.4	1714.7	1701.7	1698.1	1706.1
17.5°	1944.6	1926.6	1887.5	1845.6	1794.9	1750.9	1708.9	1674.9	1651.8	1645.2	1647.4
20°	2006.9	1983.0	1930.2	1864.4	1792.8	1724.8	1659.7	1614.2	1576.5	1565.0	1566.4
22.5°	2092.9	2051.7	1974.3	1873.8	1774.8	1675.6	1585.3	1525.9	1480.4	1462.3	1473.2
25°	2190.6	2145.7	2016.3	1871.6	1727.8	1596.8	1497.0	1419.6	1378.4	1351.7	1357.5
27.5°	2325.1	2245.6	2061.1	1852.1	1660.5	1500.6	1385.0	1311.9	1274.3	1260.5	1267.1
30°	2497.2	2375.0	2109.6	1799.3	1554.2	1379.2	1272.1	1224.4	1202.0	1184.6	1190.4
32.5°	2621.6	2466.1	2120.4	1710.3	1439.1	1268.5	1195.5	1160.0	1135.4	1118.8	1122.4
35°	2710.5	2543.5	2115.4	1601.2	1319.1	1177.4	1134.7	1105.7	1066.0	1029.8	1023.3
37.5°	2829.9	2640.4	2078.4	1481.8	1200.5	1115.9	1085.5	1032.0	974.9	926.4	924.3
40°	3012.8	2753.9	1999.6	1341.6	1099.3	1070.3	1033.4	964.0	902.6	863.5	860.6
42.5°	3201.6	2858.8	1892.6	1194.0	1016.1	1022.6	977.7	909.0	871.4	846.1	843.3
45°	3432.3	2972.3	1776.9	1066.0	954.6	977.7	929.3	889.5	867.1	850.5	846.1
47.5°	3681.8	3088.7	1646.7	951.0	902.6	936.5	909.0	891.0	878.7	867.1	862.0
50°	3950.8	3218.9	1524.5	858.4	855.5	893.9	906.9	900.4	893.1	889.5	885.2
52.5°	4245.9	3352.0	1421.8	793.3	814.3	863.5	907.6	912.7	912.7	910.5	907.6
55°	4445.5	3444.6	1317.7	740.6	772.4	838.9	906.2	925.7	932.9	930.1	927.1
57.5°	4593.0	3495.2	1186.7	695.0	737.0	815.0	898.2	927.1	934.4	938.0	936.5
60°	4623.4	3448.2	1015.3	647.2	698.6	780.4	869.3	905.4	914.8	937.3	939.4
62.5°	4486.7	3303.5	844.7	600.2	651.6	727.5	830.2	880.9	899.6	934.4	938.0
64°	4319.0	3141.6	749.9	570.6	621.2	697.9	810.7	874.3	898.9	945.2	948.1
65°	4196.0	3023.6	690.6	551.8	601.7	678.4	799.9	876.5	905.4	961.9	966.2
67.5°	3743.3	2617.9	571.3	507.7	555.4	645.1	802.1	894.6	904.0	968.3	967.7
70°	3097.5	2084.3	478.8	467.2	510.6	618.3	793.3	865.6	866.4	909.0	898.9
72.5°	2319.3	1540.4	415.1	425.2	460.7	554.7	749.2	826.6	814.3	820.1	810.0
75°	1593.2	1019.0	357.3	380.4	408.6	490.3	687.0	750.7	731.2	723.9	716.7
77.5°	850.5	563.4	297.2	336.3	355.1	423.8	599.5	661.0	640.8	612.6	603.2
80°	344.2	265.4	239.3	278.5	289.3	341.4	499.0	537.3	522.2	473.0	457.1
82.5°	172.8	159.1	188.0	219.2	219.8	243.7	371.0	407.1	373.2	313.1	299.4
85°	90.4	93.3	129.4	154.1	136.0	131.6	222.8	246.6	226.4	196.7	177.2
87.5°	32.5	37.6	68.0	67.3	47.8	25.3	49.2	23.9	13.0	8.0	10.1
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)