

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: P949155

Luminaire Tested: **GALN-SB4A-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16643 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 114
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



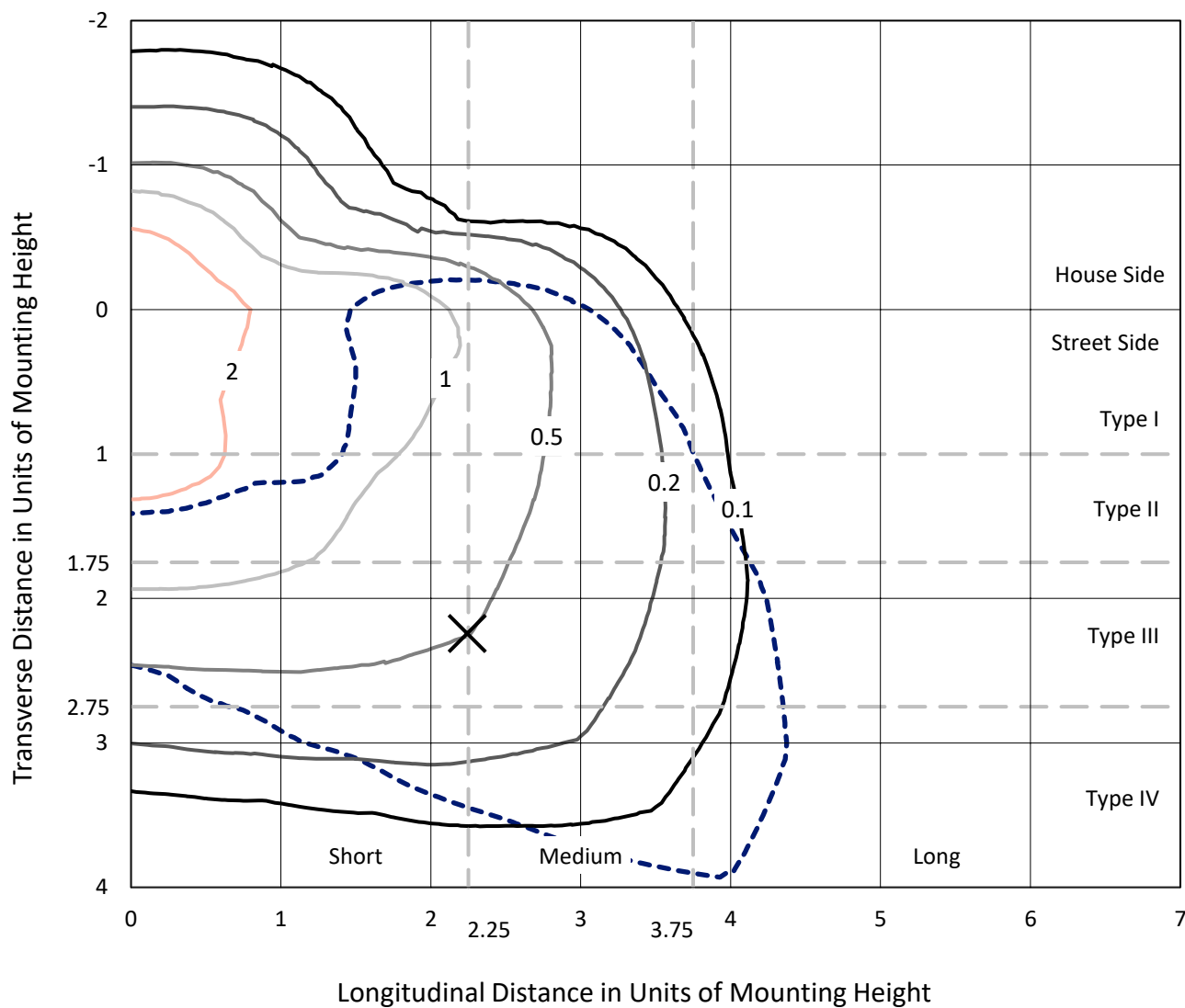
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

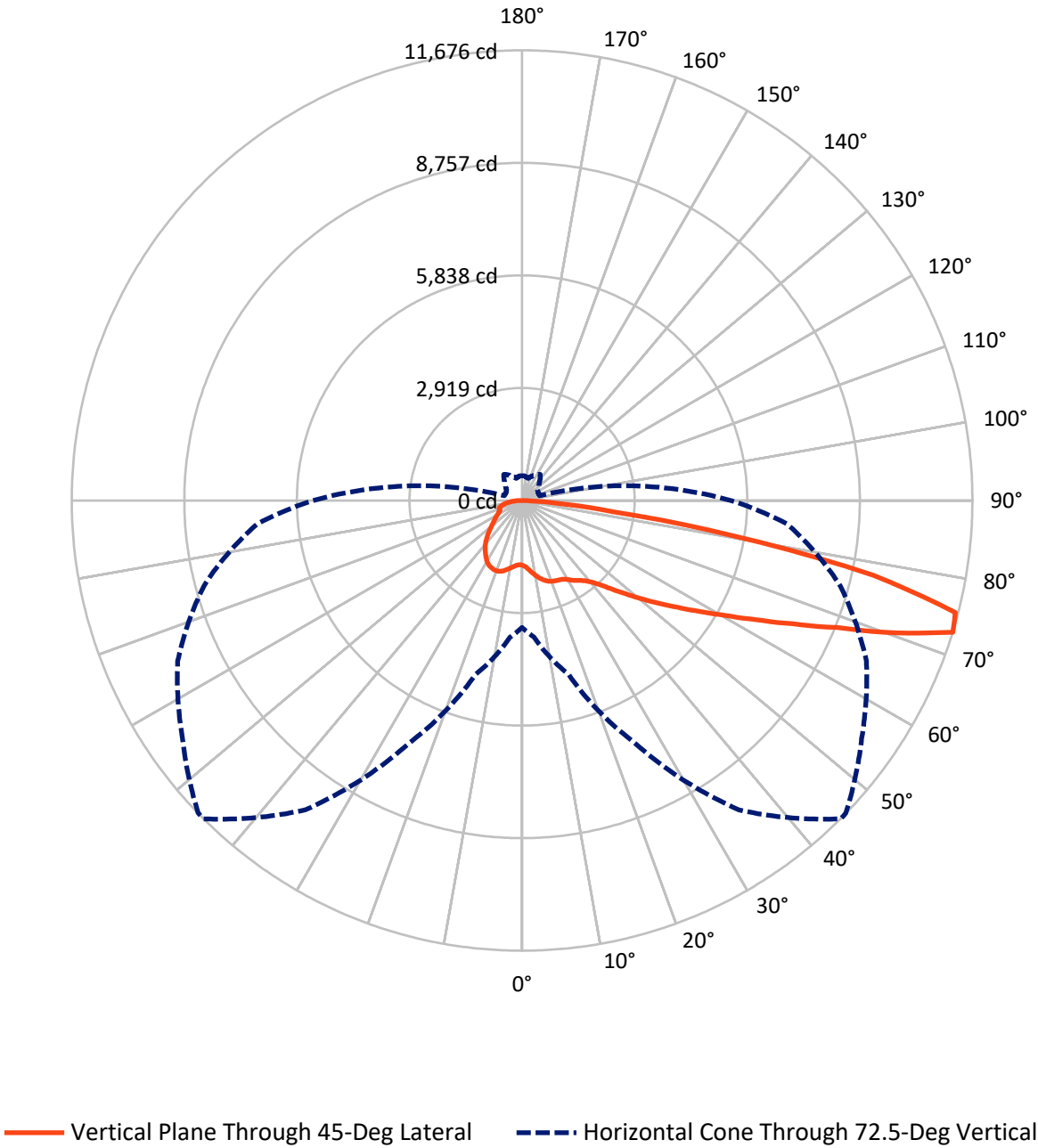
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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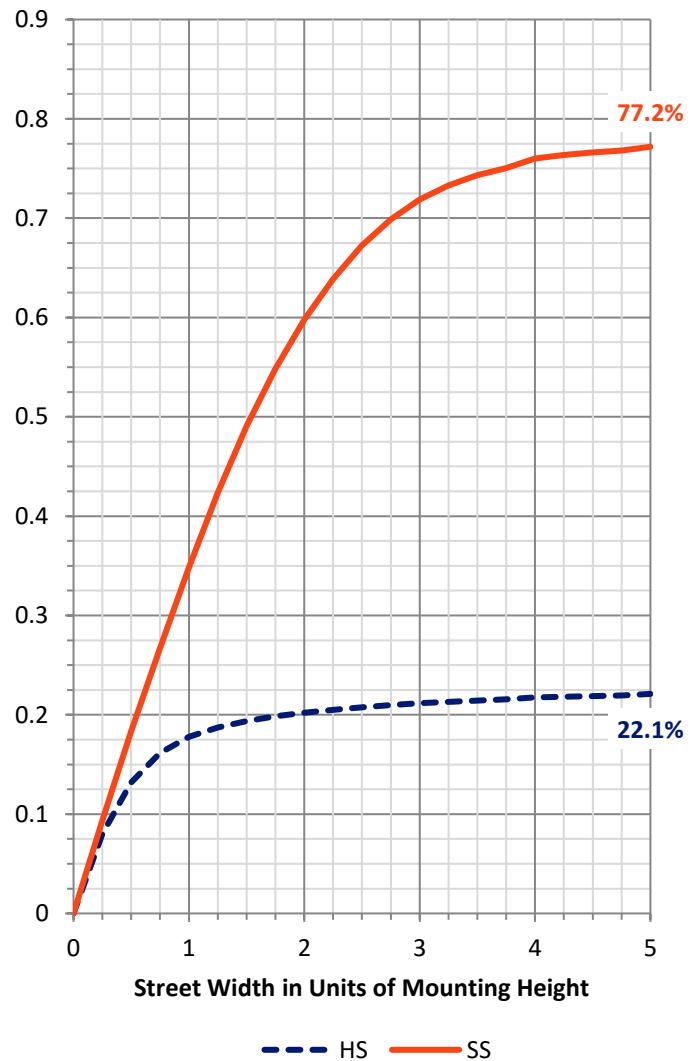
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3762.4	0.0	3762.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12880.6	0.0	12880.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	16643.0	0.0	16643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	1.0
10°-20°	569.8	3.4
20°-30°	991.1	6.0
30°-40°	1420.8	8.5
40°-50°	2000.6	12.0
50°-60°	3064.3	18.4
60°-70°	4439.1	26.7
70°-80°	3544.9	21.3
80°-90°	441.5	2.7
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°	16643.0	100.0
0°-180°	16643.0	100.0

Coefficient of Utilization



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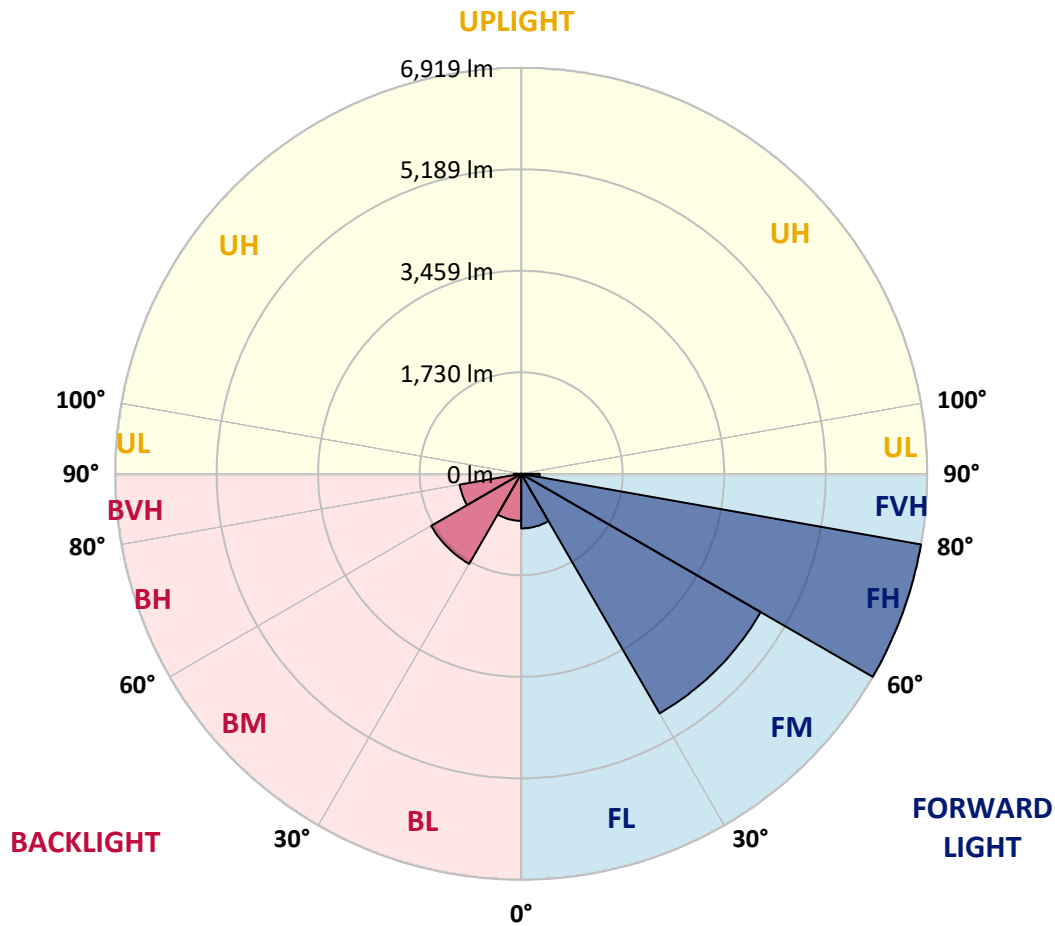
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	930.7	5.6			
FM	(30°-60°)	4714.2	28.3			
FH	(60°-80°)	6919.0	41.6			G3/7500
FVH	(80°-90°)	316.7	1.9			G3/500
BL	(0°-30°)	801.0	4.8	B2/1000		
BM	(30°-60°)	1771.6	10.6	B2/2500		
BH	(60°-80°)	1065.0	6.4	B3/2500		G3/2500
BVH	(80°-90°)	124.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0
2.5°	1744.7	1756.1	1745.6	1735.9	1731.6	1720.2	1719.3	1712.3	1707.9	1695.6	1692.1
5°	1866.6	1881.5	1863.9	1844.7	1827.1	1799.1	1795.6	1775.4	1752.6	1726.3	1711.4
7.5°	2004.2	2017.4	1997.2	1968.3	1937.6	1891.1	1890.2	1853.4	1817.5	1772.8	1747.3
10°	2124.3	2141.9	2114.7	2075.2	2036.7	1984.1	1977.9	1935.8	1890.2	1832.4	1793.8
12.5°	2230.4	2242.7	2216.4	2168.2	2123.5	2070.9	2063.0	2016.5	1965.6	1899.9	1850.8
15°	2314.6	2330.4	2295.3	2243.6	2196.2	2144.5	2137.5	2095.4	2044.6	1975.3	1912.2
17.5°	2369.8	2383.0	2347.0	2289.2	2243.6	2200.6	2195.4	2160.3	2115.6	2045.4	1977.9
20°	2390.9	2404.9	2367.2	2308.5	2266.4	2233.1	2230.4	2205.0	2174.3	2110.3	2041.9
22.5°	2411.9	2425.1	2376.0	2314.6	2277.8	2256.7	2255.8	2239.2	2226.9	2174.3	2107.7
25°	2497.0	2500.5	2434.7	2346.2	2293.5	2275.1	2274.3	2273.4	2278.6	2237.4	2178.7
27.5°	2570.6	2569.7	2513.6	2430.3	2348.8	2310.2	2309.3	2318.1	2334.8	2300.6	2252.3
30°	2678.4	2668.8	2602.2	2515.4	2440.8	2381.2	2376.0	2368.1	2381.2	2354.0	2326.0
32.5°	2907.3	2876.6	2768.7	2614.4	2517.1	2471.5	2464.5	2415.4	2420.7	2404.0	2390.0
35°	3235.2	3194.8	3051.1	2802.1	2611.8	2546.9	2543.4	2481.2	2470.6	2455.7	2461.0
37.5°	3625.3	3575.3	3407.9	3073.8	2774.9	2634.6	2629.3	2573.2	2530.3	2514.5	2544.3
40°	4017.2	3954.1	3815.6	3405.3	3015.1	2781.0	2764.4	2679.3	2630.2	2603.9	2667.0
42.5°	4397.7	4345.1	4226.8	3777.0	3311.4	2994.9	2958.1	2812.6	2775.8	2751.2	2865.2
45°	4734.4	4687.0	4600.2	4174.2	3658.6	3286.0	3250.1	3012.5	3001.1	3001.1	3165.9
47.5°	5007.9	4997.4	4905.4	4579.2	4068.1	3617.4	3555.2	3290.4	3321.1	3368.4	3592.9
50°	5311.3	5282.4	5184.2	4978.1	4549.4	3997.1	3946.2	3631.5	3746.3	3876.1	4210.1
52.5°	5590.1	5605.9	5496.3	5393.7	5093.0	4420.5	4331.1	4033.9	4282.0	4496.8	4933.4
55°	5876.8	5877.7	5847.0	5832.9	5662.9	4888.7	4790.5	4517.8	4912.4	5178.9	5776.8
57.5°	6145.9	6147.7	6193.3	6316.9	6323.9	5428.8	5317.4	5112.3	5612.9	5884.7	6646.6
60°	6386.2	6398.4	6522.9	6812.3	6905.2	6047.7	5942.5	5814.5	6337.1	6610.6	7561.0
62.5°	6466.8	6511.5	6788.6	7199.8	7479.5	6807.0	6703.5	6627.3	7098.1	7352.3	8325.5
65°	6330.1	6432.6	6968.3	7519.8	8070.4	7709.2	7606.6	7523.3	7888.9	8128.2	8953.3
67.5°	5994.3	6126.7	6957.8	7855.6	8787.6	8794.6	8699.0	8503.5	8736.7	8828.8	9157.5
70°	5109.6	5307.8	6345.0	7981.0	9610.8	10278.9	10186.8	9683.6	9582.8	9137.4	8582.4
72.5°	3292.2	3558.7	4672.1	6949.0	9794.0	11675.5	11670.3	10748.8	9850.2	8537.7	6883.3
75°	1201.1	1364.2	2170.8	4361.8	8221.2	11604.5	11638.7	10566.5	8991.8	6594.8	4288.1
77.5°	437.5	478.7	708.4	1676.3	5056.2	9311.0	9382.0	8447.4	6400.2	3309.7	1699.1
80°	229.7	252.5	363.0	650.5	2166.4	5529.6	5640.9	5020.2	3008.1	996.9	509.4
82.5°	127.1	137.6	203.4	353.3	975.8	2364.6	2431.2	1983.2	1058.2	422.6	210.4
85°	68.4	72.8	95.6	192.9	476.9	819.8	838.2	592.7	421.7	248.1	101.7
87.5°	20.2	24.5	31.6	61.4	186.7	184.1	188.5	117.5	166.6	125.4	33.3
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°	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0
2.5°	1686.8	1684.2	1674.6	1670.2	1664.9	1664.1	1668.4	1669.3	1670.2	1671.1	1674.6
5°	1702.6	1693.9	1685.1	1679.8	1681.6	1682.5	1691.2	1697.4	1701.7	1705.3	1707.0
7.5°	1733.3	1726.3	1711.4	1710.5	1713.1	1721.0	1732.4	1746.5	1754.4	1760.5	1762.2
10°	1778.9	1765.8	1748.2	1750.8	1756.1	1767.5	1791.2	1802.6	1815.7	1827.1	1824.5
12.5°	1825.4	1814.0	1793.8	1795.6	1804.3	1824.5	1847.3	1861.3	1870.1	1878.9	1882.4
15°	1885.9	1865.7	1843.8	1843.8	1859.6	1881.5	1892.0	1903.4	1908.7	1918.3	1921.8
17.5°	1948.1	1921.8	1892.9	1891.1	1910.4	1920.9	1927.1	1928.8	1930.6	1941.1	1944.6
20°	2010.4	1981.4	1940.2	1936.7	1941.1	1939.3	1938.5	1936.7	1939.3	1952.5	1957.8
22.5°	2071.7	2038.4	1981.4	1965.6	1953.4	1936.7	1935.8	1935.0	1936.7	1949.9	1958.6
25°	2143.6	2103.3	2027.0	1979.7	1938.5	1915.7	1918.3	1919.2	1920.9	1931.5	1945.5
27.5°	2221.7	2176.9	2069.1	1975.3	1900.8	1885.0	1880.6	1883.2	1889.4	1906.0	1922.7
30°	2299.7	2247.1	2107.7	1957.8	1853.4	1831.5	1817.5	1823.6	1842.9	1859.6	1878.0
32.5°	2370.7	2318.1	2138.4	1919.2	1792.9	1758.7	1740.3	1748.2	1767.5	1773.6	1795.6
35°	2454.0	2394.4	2151.5	1857.8	1727.2	1674.6	1650.0	1638.6	1648.3	1642.1	1661.4
37.5°	2546.9	2484.7	2149.8	1777.1	1650.0	1589.5	1555.3	1512.4	1492.2	1471.2	1484.3
40°	2684.6	2595.1	2128.7	1679.8	1554.5	1499.2	1437.9	1365.1	1319.5	1278.3	1280.9
42.5°	2872.2	2748.6	2090.1	1572.9	1446.6	1394.9	1311.6	1226.6	1154.7	1086.3	1080.1
45°	3151.9	2949.3	2041.9	1458.9	1330.0	1279.2	1188.9	1093.3	1011.8	924.1	913.6
47.5°	3555.2	3219.4	1996.3	1329.1	1207.3	1160.8	1079.3	990.7	894.3	809.2	799.6
50°	4109.3	3606.9	1954.3	1202.9	1086.3	1051.2	986.3	896.0	798.7	730.3	725.9
52.5°	4814.2	4133.8	1936.7	1081.0	973.2	960.0	908.3	824.1	732.1	674.2	669.8
55°	5623.4	4764.2	1936.7	964.4	874.1	878.5	842.5	764.5	684.7	633.0	627.7
57.5°	6449.3	5402.5	1901.6	856.6	789.9	808.4	785.6	717.2	645.3	591.8	583.0
60°	7210.3	5937.3	1759.6	758.4	715.4	744.4	729.4	670.7	583.0	538.3	531.3
62.5°	7795.1	6238.9	1486.1	680.3	654.0	687.4	679.5	609.3	571.6	553.2	547.1
65°	8087.9	6189.8	1136.3	611.1	602.3	654.0	637.4	634.8	604.9	583.9	576.9
67.5°	7908.2	5767.2	824.1	560.2	572.5	623.4	687.4	697.9	642.6	601.4	594.4
70°	7120.0	5002.7	613.7	512.0	534.8	624.2	783.8	730.3	630.4	582.2	574.3
72.5°	5416.5	3730.5	476.1	461.2	485.7	628.6	826.8	715.4	595.3	643.5	638.3
75°	3097.5	2048.1	382.3	398.9	424.3	587.4	804.8	676.8	568.1	590.9	590.9
77.5°	1181.0	787.3	315.6	337.5	341.1	512.9	769.8	674.2	540.9	527.8	481.3
80°	409.4	307.7	261.3	268.3	263.9	455.9	738.2	586.5	442.8	396.3	383.1
82.5°	167.5	153.4	206.9	198.1	187.6	354.2	596.2	479.6	362.1	320.0	316.5
85°	72.8	97.3	136.8	120.1	108.7	245.5	477.8	405.9	306.0	263.9	263.0
87.5°	14.9	36.8	57.9	54.4	56.1	164.0	339.3	288.4	216.6	162.2	127.1
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)