

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: P940759

Luminaire Tested: **GALN-SB4A-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14679 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

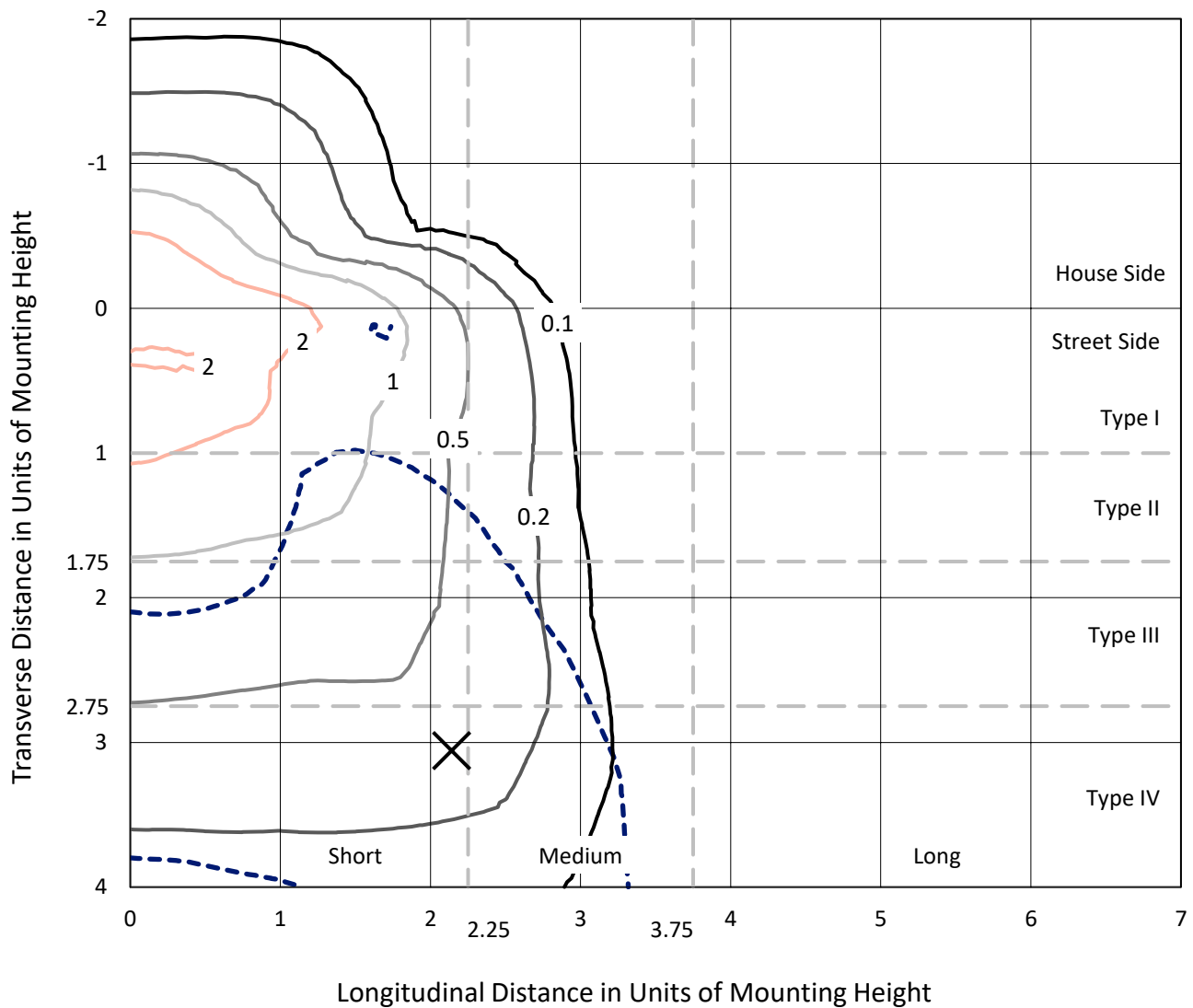


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

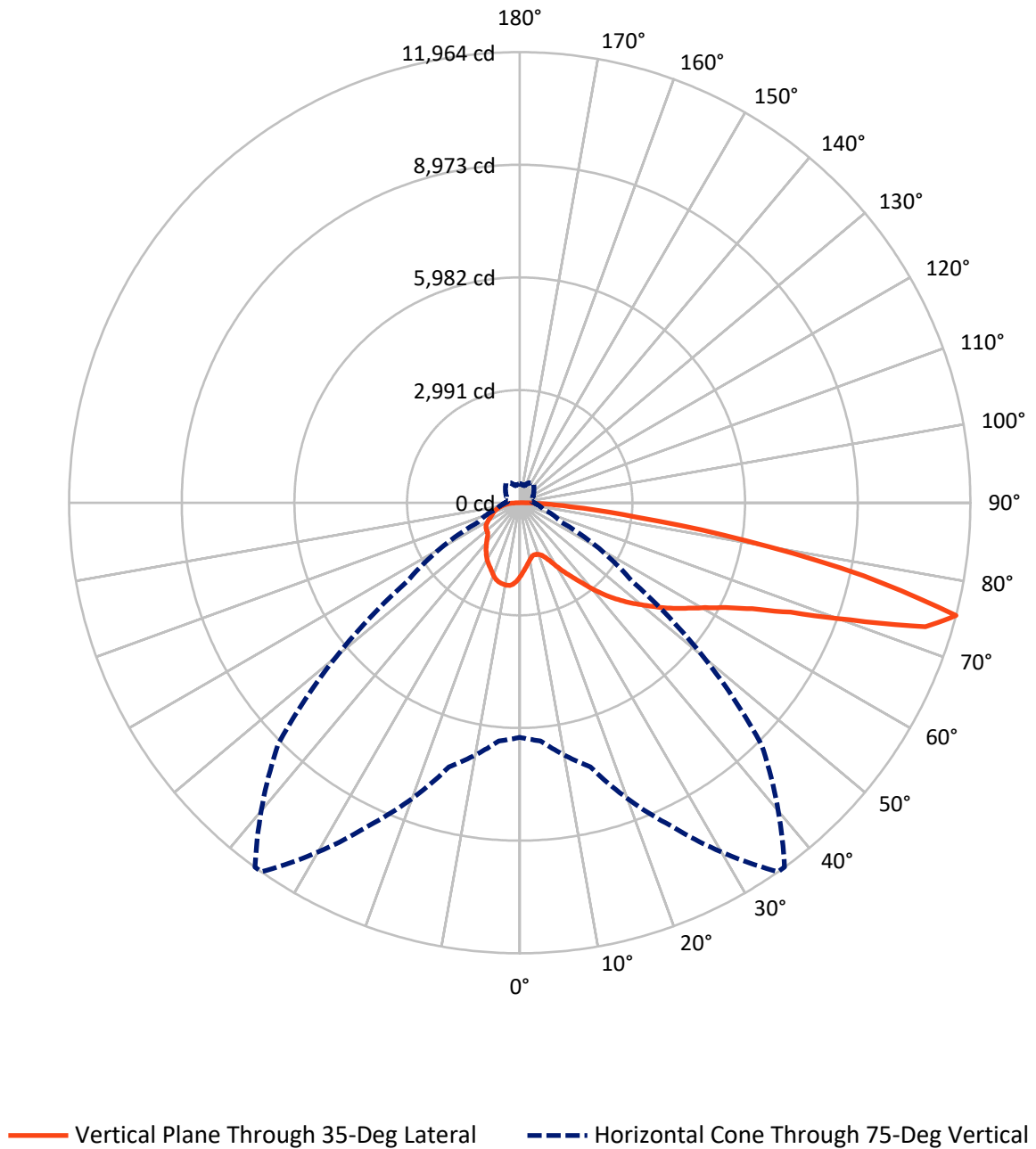


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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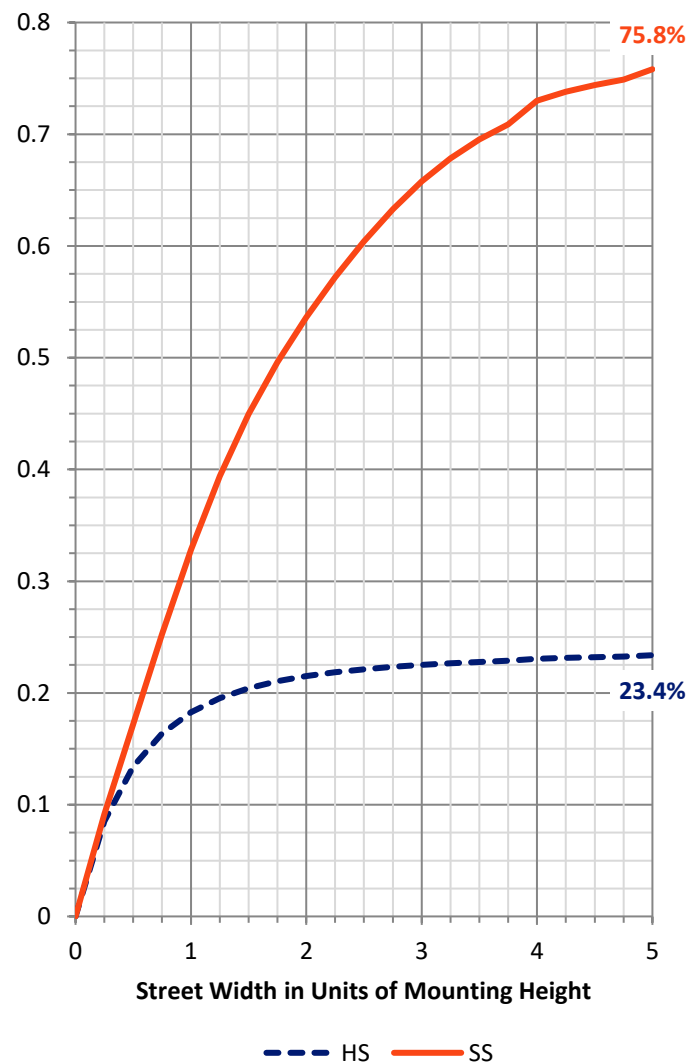
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3493.2	0.0	3493.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	11185.8	0.0	11185.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	14679.0	0.0	14679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	1.3
10°-20°	534.2	3.6
20°-30°	897.1	6.1
30°-40°	1394.2	9.5
40°-50°	2069.3	14.1
50°-60°	2856.8	19.5
60°-70°	3466.0	23.6
70°-80°	2864.3	19.5
80°-90°	412.0	2.8
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°	14679.0	100.0
0°-180°	14679.0	100.0

Coefficient of Utilization



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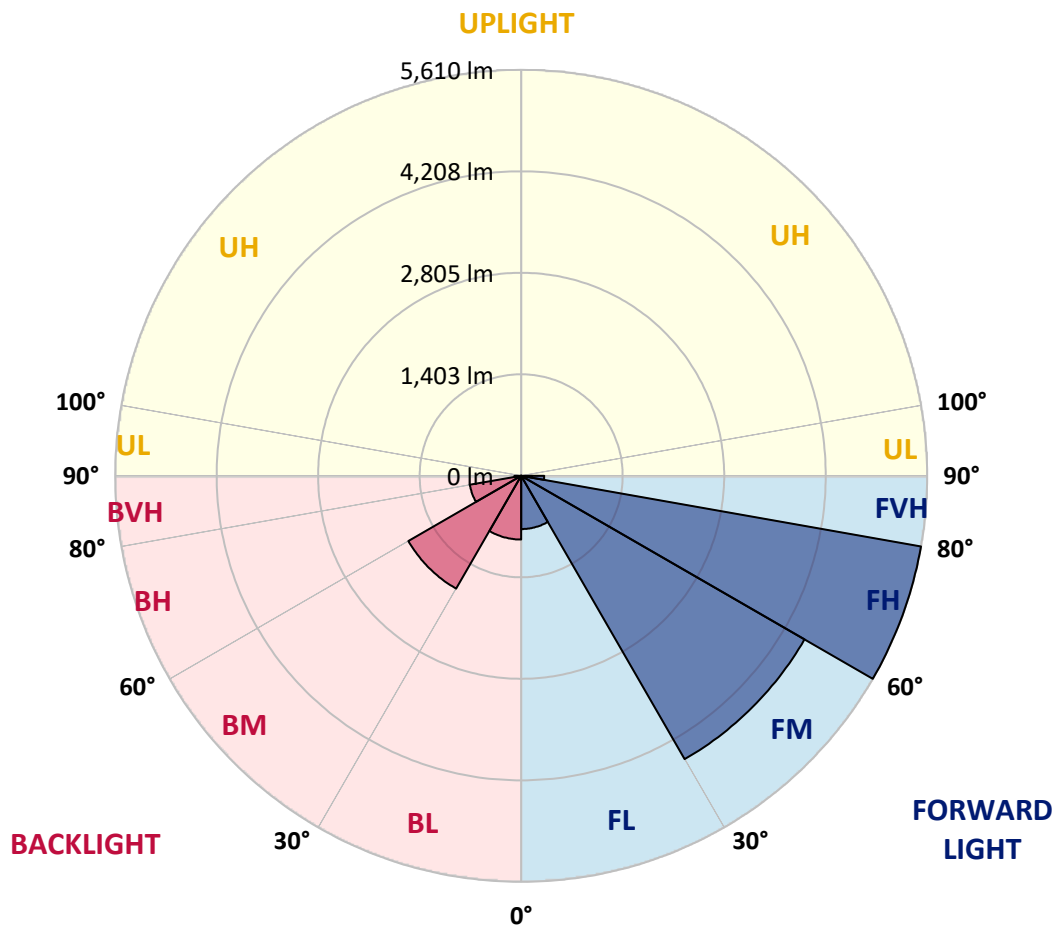
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	736.1	5.0			
FM	(30°-60°)	4520.3	30.8			
FH	(60°-80°)	5610.1	38.2			G3/7500
FVH	(80°-90°)	319.2	2.2			G3/500
BL	(0°-30°)	880.3	6.0	B2/1000		
BM	(30°-60°)	1799.9	12.3	B2/2500		
BH	(60°-80°)	720.2	4.9	B2/1000		G2/1000
BVH	(80°-90°)	92.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1
2.5°	1803.7	1814.8	1819.6	1817.2	1829.1	1827.5	1844.2	1864.8	1893.4	1921.2	1961.6
5°	1664.8	1676.7	1687.1	1696.6	1719.6	1726.7	1752.9	1792.6	1845.0	1898.1	1964.8
7.5°	1535.5	1545.8	1561.7	1579.1	1618.0	1625.2	1668.8	1730.7	1803.7	1881.5	1973.5
10°	1430.0	1440.3	1456.9	1476.8	1525.2	1533.9	1589.5	1672.0	1767.2	1865.6	1983.1
12.5°	1384.7	1387.9	1397.4	1417.3	1459.3	1464.9	1526.0	1620.4	1731.5	1853.7	1997.3
15°	1382.3	1388.7	1389.5	1399.8	1434.7	1437.1	1493.4	1587.1	1709.3	1851.3	2018.8
17.5°	1406.2	1410.9	1403.8	1410.1	1439.5	1443.4	1487.9	1571.2	1702.1	1861.6	2055.3
20°	1469.6	1473.6	1452.2	1443.4	1464.9	1468.0	1511.7	1581.5	1709.3	1883.1	2105.3
22.5°	1604.5	1606.9	1554.5	1518.8	1520.4	1522.0	1560.1	1623.6	1737.1	1922.0	2168.7
25°	1814.8	1813.2	1729.9	1660.9	1621.2	1612.5	1637.9	1691.8	1783.9	1973.5	2250.5
27.5°	2060.8	2048.9	1965.6	1862.4	1775.9	1763.2	1757.7	1780.7	1850.5	2041.8	2350.5
30°	2338.6	2327.5	2237.8	2102.9	1983.1	1962.4	1910.1	1898.1	1949.7	2134.6	2489.3
32.5°	2643.3	2636.1	2529.0	2365.5	2205.2	2181.4	2093.4	2061.6	2102.1	2275.1	2683.0
35°	2898.8	2892.5	2803.6	2635.3	2439.3	2410.0	2320.3	2284.6	2305.2	2455.2	2936.1
37.5°	3129.7	3126.5	3050.4	2917.8	2715.5	2679.8	2579.0	2567.1	2563.1	2692.5	3243.2
40°	3344.0	3336.0	3256.7	3186.9	3036.9	3004.3	2915.5	2905.1	2875.0	2984.5	3590.8
42.5°	3581.2	3560.6	3445.6	3413.0	3372.5	3345.6	3292.4	3294.0	3227.3	3313.8	3959.0
45°	3774.9	3763.0	3644.7	3625.7	3669.3	3658.2	3704.2	3716.1	3586.8	3659.0	4341.5
47.5°	3982.8	3971.7	3871.7	3858.2	3976.4	3979.6	4142.3	4146.2	3937.5	4017.7	4724.7
50°	4239.1	4223.2	4124.0	4140.7	4273.2	4285.1	4582.7	4555.7	4260.5	4381.9	5104.8
52.5°	4408.1	4417.6	4396.2	4423.2	4604.1	4615.2	5016.0	4946.9	4580.3	4741.4	5477.8
55°	4532.7	4551.7	4618.4	4680.3	4953.3	4964.4	5424.6	5319.1	4845.4	5074.7	5828.6
57.5°	4693.0	4666.0	4790.6	4911.2	5285.0	5314.3	5822.2	5677.8	5080.2	5361.9	6069.0
60°	4923.1	4904.1	5000.9	5179.4	5656.4	5703.2	6242.8	6000.7	5252.4	5589.7	6115.8
62.5°	5389.7	5342.1	5357.2	5515.1	6124.5	6186.4	6717.3	6282.5	5338.1	5678.6	5865.1
65°	6087.2	6005.5	5929.3	6038.8	6784.0	6845.1	7253.0	6503.9	5306.4	5506.4	5199.3
67.5°	6965.7	6884.8	6791.1	6894.3	7755.3	7803.7	7914.0	6628.4	5056.4	4843.0	4022.5
70°	7690.2	7660.0	7771.9	8196.5	9306.6	9308.2	8761.5	6525.3	4371.6	3433.6	2327.5
72.5°	7594.2	7575.9	8165.5	9478.0	11261.9	11219.9	9563.7	5744.4	2944.8	1549.0	872.1
75°	6230.1	6348.3	7261.7	9455.0	11964.2	11958.6	9072.5	3651.9	1218.1	642.0	450.7
77.5°	3340.8	3528.1	4714.4	6980.8	9340.0	9480.4	6378.5	1277.6	522.9	411.1	311.9
80°	1089.5	1253.0	1879.1	3554.3	6069.0	6042.8	2733.7	501.5	357.9	291.2	215.8
82.5°	462.6	481.7	839.6	1678.3	3114.6	3066.2	870.5	288.1	251.6	199.2	133.3
85°	180.9	202.4	370.6	776.1	1349.0	1319.7	314.2	142.8	161.1	130.1	79.4
87.5°	59.5	72.2	132.5	265.8	419.8	404.7	77.0	49.2	69.8	59.5	28.6
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°	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1	1956.1
2.5°	1972.7	1985.4	2000.5	2022.7	2041.8	2057.6	2074.3	2084.6	2088.6	2100.5	2099.7
5°	1987.0	2014.8	2052.1	2088.6	2124.3	2145.7	2164.8	2174.3	2183.0	2189.4	2191.0
7.5°	2010.8	2046.5	2105.3	2152.9	2183.0	2200.5	2213.2	2210.0	2213.2	2214.8	2217.2
10°	2031.5	2081.5	2151.3	2196.5	2219.5	2220.3	2217.2	2206.0	2200.5	2201.3	2202.9
12.5°	2056.1	2111.6	2187.0	2225.1	2231.4	2214.0	2200.5	2181.4	2174.3	2171.1	2169.5
15°	2089.4	2152.9	2225.9	2240.2	2224.3	2202.1	2179.1	2148.1	2132.2	2119.5	2123.5
17.5°	2129.9	2199.7	2256.0	2245.7	2211.6	2175.1	2137.8	2091.0	2058.4	2045.0	2045.7
20°	2186.2	2248.9	2279.0	2233.8	2182.2	2126.7	2063.2	2006.1	1975.9	1962.4	1960.8
22.5°	2254.4	2314.8	2301.3	2213.2	2140.2	2051.3	1971.9	1929.9	1914.8	1905.3	1906.9
25°	2336.2	2387.8	2317.1	2183.0	2071.1	1951.3	1890.2	1876.7	1869.6	1862.4	1862.4
27.5°	2442.5	2470.3	2329.0	2138.6	1963.2	1845.0	1822.8	1825.1	1822.8	1810.9	1813.2
30°	2583.0	2577.4	2340.1	2066.4	1839.4	1749.0	1750.5	1760.9	1762.5	1754.5	1758.5
32.5°	2767.9	2711.5	2345.7	1972.7	1721.2	1664.8	1666.4	1677.5	1685.5	1672.0	1678.3
35°	2991.6	2867.9	2337.0	1855.3	1629.9	1584.7	1572.8	1576.0	1578.4	1565.7	1574.4
37.5°	3252.7	3043.2	2298.1	1725.2	1554.5	1506.1	1480.7	1459.3	1446.6	1434.7	1442.7
40°	3539.2	3234.5	2226.7	1598.2	1470.4	1422.8	1384.7	1344.3	1301.4	1285.5	1292.7
42.5°	3839.1	3431.3	2140.2	1476.8	1373.6	1334.7	1294.3	1235.5	1171.3	1138.7	1142.7
45°	4150.2	3632.8	2055.3	1357.0	1274.4	1257.8	1210.9	1140.3	1070.5	1029.2	1026.0
47.5°	4454.9	3823.3	1930.7	1236.3	1181.6	1199.8	1163.3	1098.3	1020.5	955.4	948.3
50°	4746.2	4001.8	1726.7	1114.1	1106.2	1182.4	1147.5	1053.8	964.9	881.6	874.5
52.5°	5035.0	4146.2	1465.7	1003.0	1065.7	1177.6	1126.8	1023.7	915.0	827.7	818.1
55°	5280.2	4220.8	1214.1	907.8	1007.0	1137.1	1102.2	988.0	844.3	751.5	743.5
57.5°	5419.9	4160.5	1004.6	814.2	926.1	1070.5	1060.2	911.8	760.2	688.8	679.3
60°	5359.6	3916.1	833.2	732.4	849.1	998.3	987.2	836.4	695.9	628.5	619.0
62.5°	5027.1	3450.3	697.5	661.0	779.3	924.5	914.2	778.5	646.7	581.7	571.3
65°	4357.3	2806.8	592.0	601.5	708.6	835.6	850.7	730.1	607.9	544.4	534.1
67.5°	3323.3	2033.0	509.5	549.9	639.6	748.3	792.0	695.1	575.3	515.0	505.5
70°	1894.2	1154.6	439.6	499.9	578.5	667.4	746.7	667.4	540.4	490.4	484.1
72.5°	718.2	530.1	380.1	449.9	519.8	599.1	696.7	623.7	499.9	462.6	456.3
75°	383.3	323.0	319.8	391.2	452.3	532.5	634.0	580.9	469.8	488.8	504.7
77.5°	261.1	228.5	267.4	334.9	378.5	458.7	567.4	515.8	407.1	405.5	373.8
80°	180.9	161.9	217.4	269.8	292.8	385.7	495.2	442.8	331.7	309.5	296.0
82.5°	108.7	105.5	162.7	201.6	207.1	297.6	410.3	371.4	271.4	236.5	238.1
85°	59.5	62.7	104.0	118.2	120.6	207.9	321.4	287.3	208.7	175.4	177.0
87.5°	16.7	21.4	38.1	46.8	57.9	107.9	191.2	170.6	104.7	73.0	73.0
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)