

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: P939909

Luminaire Tested: **GALN-SB2D-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939909
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-SB2D-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16616 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

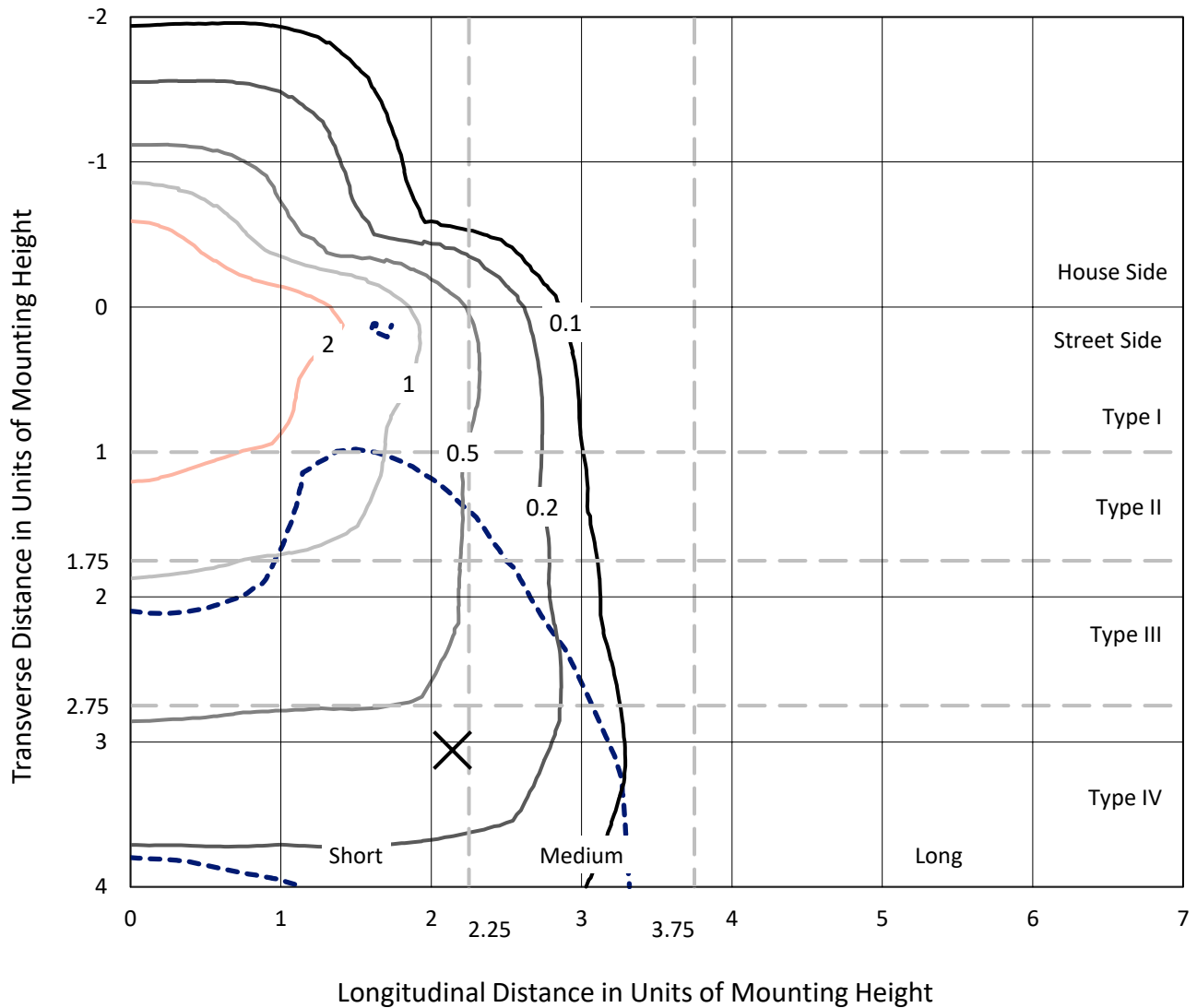
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

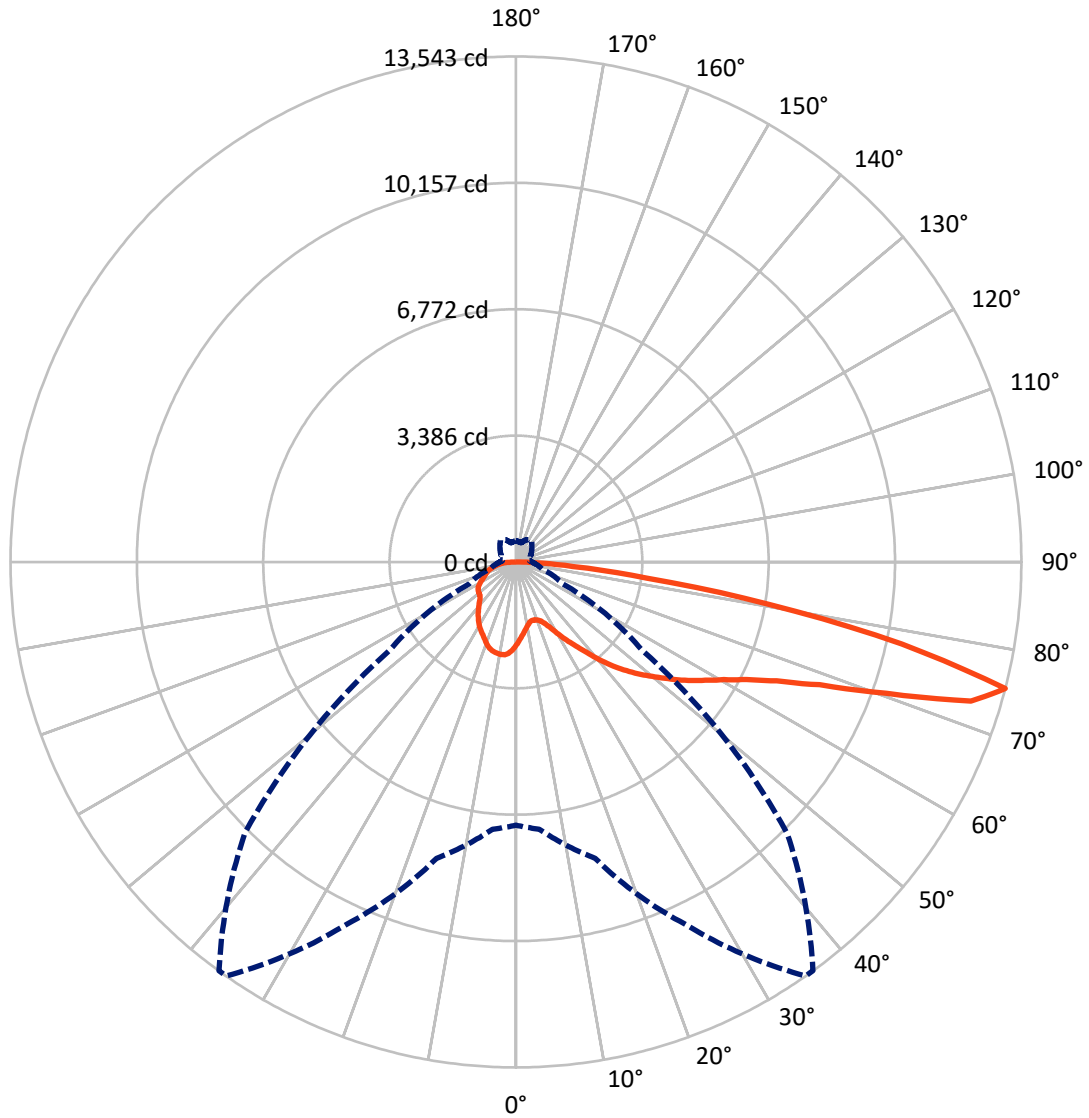
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3954.2	0.0	3954.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	12661.8	0.0	12661.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	16616.0	0.0	16616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	1.3
10°-20°	604.7	3.6
20°-30°	1015.4	6.1
30°-40°	1578.1	9.5
40°-50°	2342.4	14.1
50°-60°	3233.8	19.5
60°-70°	3923.3	23.6
70°-80°	3242.3	19.5
80°-90°	466.3	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°	16616.0	100.0
0°-180°	16616.0	100.0

Coefficient of Utilization



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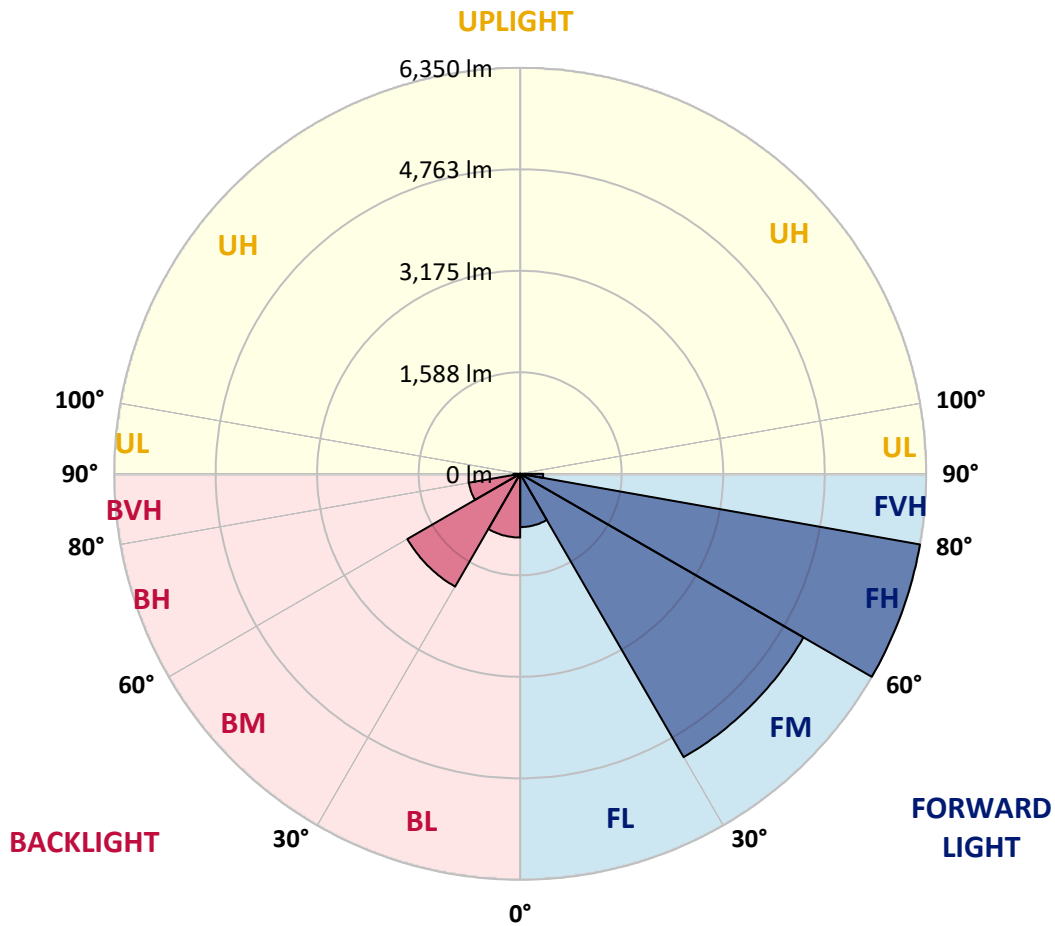
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.3	5.0			
FM (30°-60°)	5116.8	30.8			
FH (60°-80°)	6350.4	38.2			G3/7500
FVH (80°-90°)	361.3	2.2			G3/500
BL (0°-30°)	996.5	6.0	B2/1000		
BM (30°-60°)	2037.4	12.3	B2/2500		
BH (60°-80°)	815.2	4.9	B2/1000		G2/1000
BVH (80°-90°)	105.0	0.6			G2/225
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°	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2
2.5°	2041.7	2054.3	2059.7	2057.0	2070.5	2068.7	2087.5	2110.9	2143.2	2174.7	2220.5
5°	1884.5	1898.0	1909.7	1920.5	1946.5	1954.6	1984.2	2029.2	2088.4	2148.6	2224.1
7.5°	1738.1	1749.8	1767.8	1787.5	1831.5	1839.6	1889.0	1959.1	2041.7	2129.8	2234.0
10°	1618.7	1630.3	1649.2	1671.6	1726.4	1736.3	1799.2	1892.6	2000.4	2111.8	2244.7
12.5°	1567.5	1571.0	1581.8	1604.3	1651.9	1658.2	1727.3	1834.2	1960.0	2098.3	2260.9
15°	1564.8	1571.9	1572.8	1584.5	1624.0	1626.7	1690.5	1796.5	1934.8	2095.6	2285.2
17.5°	1591.7	1597.1	1589.0	1596.2	1629.4	1633.9	1684.2	1778.5	1926.8	2107.3	2326.5
20°	1663.6	1668.1	1643.8	1633.9	1658.2	1661.8	1711.2	1790.2	1934.8	2131.6	2383.1
22.5°	1816.3	1819.0	1759.7	1719.3	1721.1	1722.8	1766.0	1837.8	1966.3	2175.6	2454.9
25°	2054.3	2052.5	1958.2	1880.0	1835.1	1825.3	1854.0	1915.1	2019.3	2234.0	2547.4
27.5°	2332.8	2319.3	2225.0	2108.2	2010.3	1995.9	1989.6	2015.7	2094.7	2311.2	2660.6
30°	2647.2	2634.6	2533.1	2380.4	2244.7	2221.4	2162.1	2148.6	2207.0	2416.3	2817.8
32.5°	2992.1	2984.0	2862.7	2677.7	2496.2	2469.3	2369.6	2333.7	2379.5	2575.3	3037.0
35°	3281.3	3274.1	3173.5	2983.1	2761.2	2728.0	2626.5	2586.1	2609.4	2779.2	3323.5
37.5°	3542.7	3539.1	3452.9	3302.9	3073.8	3033.4	2919.3	2905.8	2901.4	3047.8	3671.2
40°	3785.2	3776.3	3686.4	3607.4	3437.6	3400.8	3300.2	3288.5	3254.4	3378.3	4064.6
42.5°	4053.8	4030.5	3900.2	3863.4	3817.6	3787.0	3726.9	3728.6	3653.2	3751.1	4481.4
45°	4273.0	4259.5	4125.7	4104.1	4153.5	4140.9	4193.0	4206.5	4060.1	4141.8	4914.3
47.5°	4508.3	4495.8	4382.6	4367.3	4501.1	4504.7	4688.9	4693.4	4457.1	4547.9	5348.2
50°	4798.5	4780.5	4668.2	4687.1	4837.1	4850.6	5187.4	5156.9	4822.7	4960.2	5778.5
52.5°	4989.8	5000.6	4976.3	5006.9	5211.7	5224.2	5677.9	5599.7	5184.7	5367.1	6200.6
55°	5130.8	5152.4	5227.8	5297.9	5606.9	5619.5	6140.5	6021.0	5484.7	5744.3	6597.7
57.5°	5312.3	5281.7	5422.8	5559.3	5982.4	6015.6	6590.5	6427.0	5750.6	6069.5	6869.8
60°	5572.8	5551.2	5660.8	5862.9	6402.7	6455.7	7066.6	6792.6	5945.5	6327.3	6922.8
62.5°	6100.9	6047.0	6064.1	6242.9	6932.7	7002.8	7603.7	7111.5	6042.5	6427.9	6639.0
65°	6890.5	6798.0	6711.7	6835.7	7679.2	7748.3	8210.0	7362.1	6006.6	6233.0	5885.4
67.5°	7884.9	7793.2	7687.3	7804.0	8778.6	8833.4	8958.3	7503.1	5723.7	5482.0	4553.2
70°	8705.0	8670.8	8797.5	9278.1	10534.7	10536.5	9917.6	7386.3	4948.5	3886.7	2634.6
72.5°	8596.3	8575.6	9243.0	10728.7	12748.0	12700.4	10825.7	6502.5	3333.4	1753.4	987.2
75°	7052.2	7186.0	8219.9	10702.7	13543.0	13536.7	10269.7	4133.8	1378.8	726.7	510.2
77.5°	3781.6	3993.6	5336.5	7901.9	10572.4	10731.4	7220.2	1446.2	591.9	465.3	353.0
80°	1233.3	1418.3	2127.1	4023.3	6869.8	6840.2	3094.5	567.7	405.1	329.7	244.3
82.5°	523.7	545.2	950.4	1899.8	3525.6	3470.9	985.4	326.1	284.7	225.5	150.9
85°	204.8	229.1	419.5	878.5	1527.0	1493.8	355.7	161.7	182.3	147.3	89.8
87.5°	67.4	81.7	150.0	300.9	475.2	458.1	87.1	55.7	79.0	67.4	32.3
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°	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2	2214.2
2.5°	2233.1	2247.4	2264.5	2289.6	2311.2	2329.2	2348.0	2359.7	2364.2	2377.7	2376.8
5°	2249.2	2280.7	2322.9	2364.2	2404.6	2428.9	2450.4	2461.2	2471.1	2478.3	2480.1
7.5°	2276.2	2316.6	2383.1	2437.0	2471.1	2490.9	2505.2	2501.6	2505.2	2507.0	2509.7
10°	2299.5	2356.1	2435.2	2486.4	2512.4	2513.3	2509.7	2497.1	2490.9	2491.8	2493.6
12.5°	2327.4	2390.3	2475.6	2518.7	2525.9	2506.1	2490.9	2469.3	2461.2	2457.6	2455.8
15°	2365.1	2437.0	2519.6	2535.8	2517.8	2492.7	2466.6	2431.6	2413.6	2399.2	2403.7
17.5°	2410.9	2490.0	2553.7	2542.1	2503.4	2462.1	2419.9	2366.9	2330.1	2314.8	2315.7
20°	2474.7	2545.6	2579.8	2528.6	2470.2	2407.3	2335.5	2270.8	2236.7	2221.4	2219.6
22.5°	2551.9	2620.2	2604.9	2505.2	2422.6	2322.0	2232.2	2184.6	2167.5	2156.7	2158.5
25°	2644.5	2702.8	2622.9	2471.1	2344.4	2208.8	2139.6	2124.4	2116.3	2108.2	2108.2
27.5°	2764.8	2796.3	2636.4	2420.8	2222.3	2088.4	2063.3	2066.0	2063.3	2049.8	2052.5
30°	2923.8	2917.5	2648.9	2339.1	2082.2	1979.8	1981.5	1993.2	1995.0	1986.0	1990.5
32.5°	3133.1	3069.3	2655.2	2233.1	1948.3	1884.5	1886.3	1898.9	1907.9	1892.6	1899.8
35°	3386.4	3246.3	2645.4	2100.1	1845.0	1793.8	1780.3	1783.9	1786.6	1772.3	1782.1
37.5°	3681.9	3444.8	2601.3	1952.8	1759.7	1704.9	1676.1	1651.9	1637.5	1624.0	1633.0
40°	4006.2	3661.3	2520.5	1809.1	1664.5	1610.6	1567.5	1521.6	1473.1	1455.2	1463.3
42.5°	4345.7	3884.0	2422.6	1671.6	1554.9	1510.9	1465.1	1398.6	1325.8	1289.0	1293.5
45°	4697.9	4112.2	2326.5	1536.0	1442.6	1423.7	1370.7	1290.8	1211.7	1165.0	1161.4
47.5°	5042.8	4327.8	2185.5	1399.5	1337.5	1358.2	1316.8	1243.2	1155.2	1081.5	1073.4
50°	5372.5	4529.9	1954.6	1261.1	1252.2	1338.4	1298.9	1192.9	1092.3	998.0	989.9
52.5°	5699.4	4693.4	1659.1	1135.4	1206.4	1333.0	1275.5	1158.7	1035.7	936.9	926.1
55°	5977.0	4777.8	1374.3	1027.6	1139.9	1287.2	1247.7	1118.3	955.7	850.6	841.7
57.5°	6135.1	4709.5	1137.2	921.6	1048.3	1211.7	1200.1	1032.1	860.5	779.7	768.9
60°	6066.8	4432.9	943.2	829.1	961.1	1130.0	1117.4	946.8	787.8	711.4	700.6
62.5°	5690.4	3905.6	789.6	748.2	882.1	1046.5	1034.8	881.2	732.1	658.4	646.7
65°	4932.3	3177.1	670.1	680.9	802.1	945.9	962.9	826.4	688.1	616.2	604.5
67.5°	3761.9	2301.3	576.7	622.5	724.0	847.1	896.5	786.9	651.2	583.0	572.2
70°	2144.1	1307.0	497.6	565.9	654.8	755.4	845.3	755.4	611.7	555.1	547.9
72.5°	812.9	600.0	430.3	509.3	588.4	678.2	788.7	706.0	565.9	523.7	516.5
75°	433.9	365.6	362.0	442.8	512.0	602.7	717.7	657.5	531.8	553.3	571.3
77.5°	295.5	258.7	302.7	379.1	428.5	519.2	642.3	583.9	460.8	459.0	423.1
80°	204.8	183.2	246.1	305.4	331.5	436.6	560.5	501.2	375.5	350.3	335.0
82.5°	123.1	119.5	184.1	228.2	234.4	336.8	464.4	420.4	307.2	267.7	269.5
85°	67.4	71.0	117.7	133.8	136.5	235.3	363.8	325.2	236.2	198.5	200.3
87.5°	18.9	24.3	43.1	53.0	65.6	122.2	216.5	193.1	118.6	82.6	82.6
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)