

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: P948084

Luminaire Tested: **GALN-SB3B-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948084
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-SB3B-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15640 lumens
Efficiency: N/A
Efficacy: 143.2 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): 109.2
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



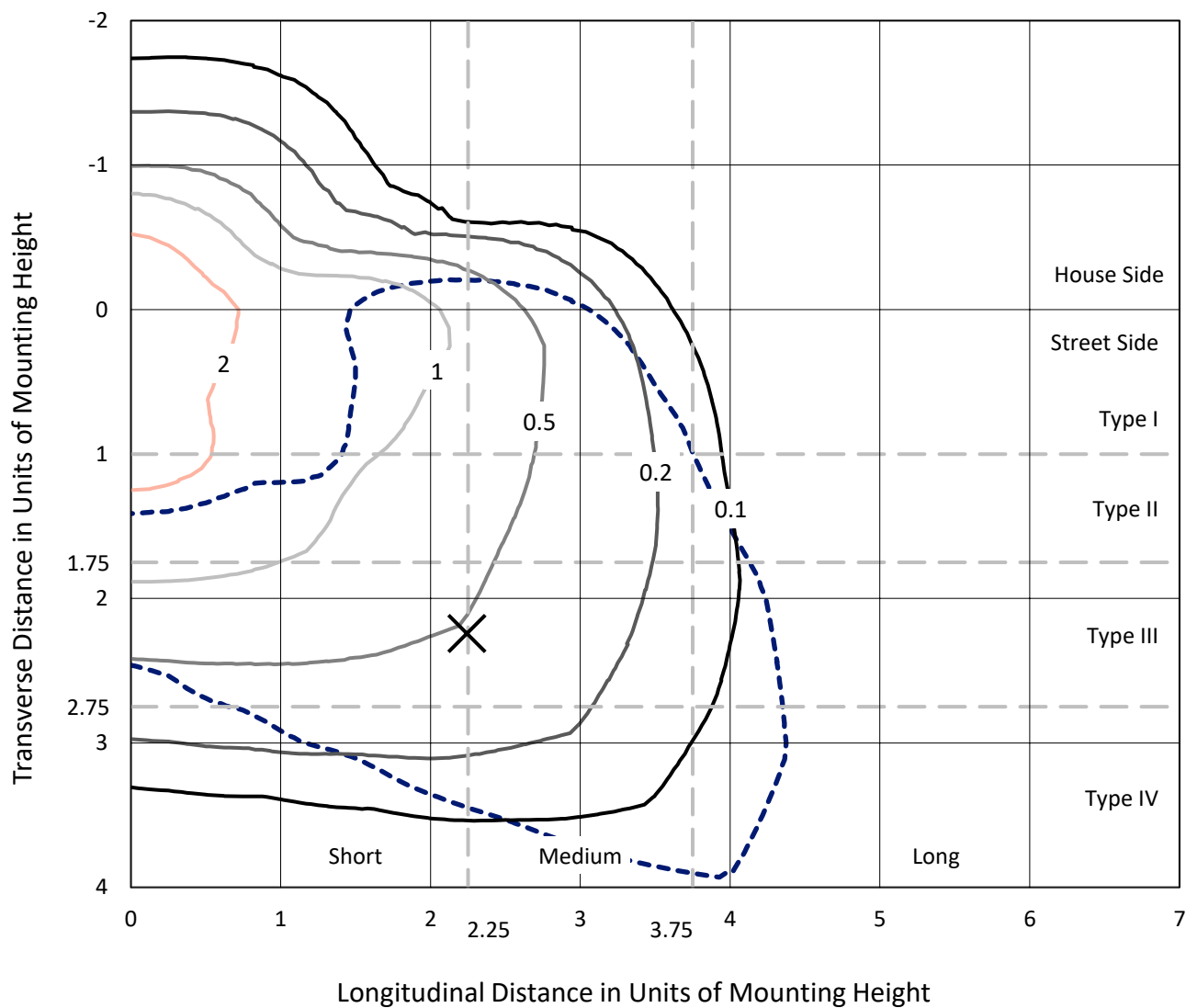
REPORT NUMBER: P948084

CATALOG NUMBER: GALN-SB3B-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

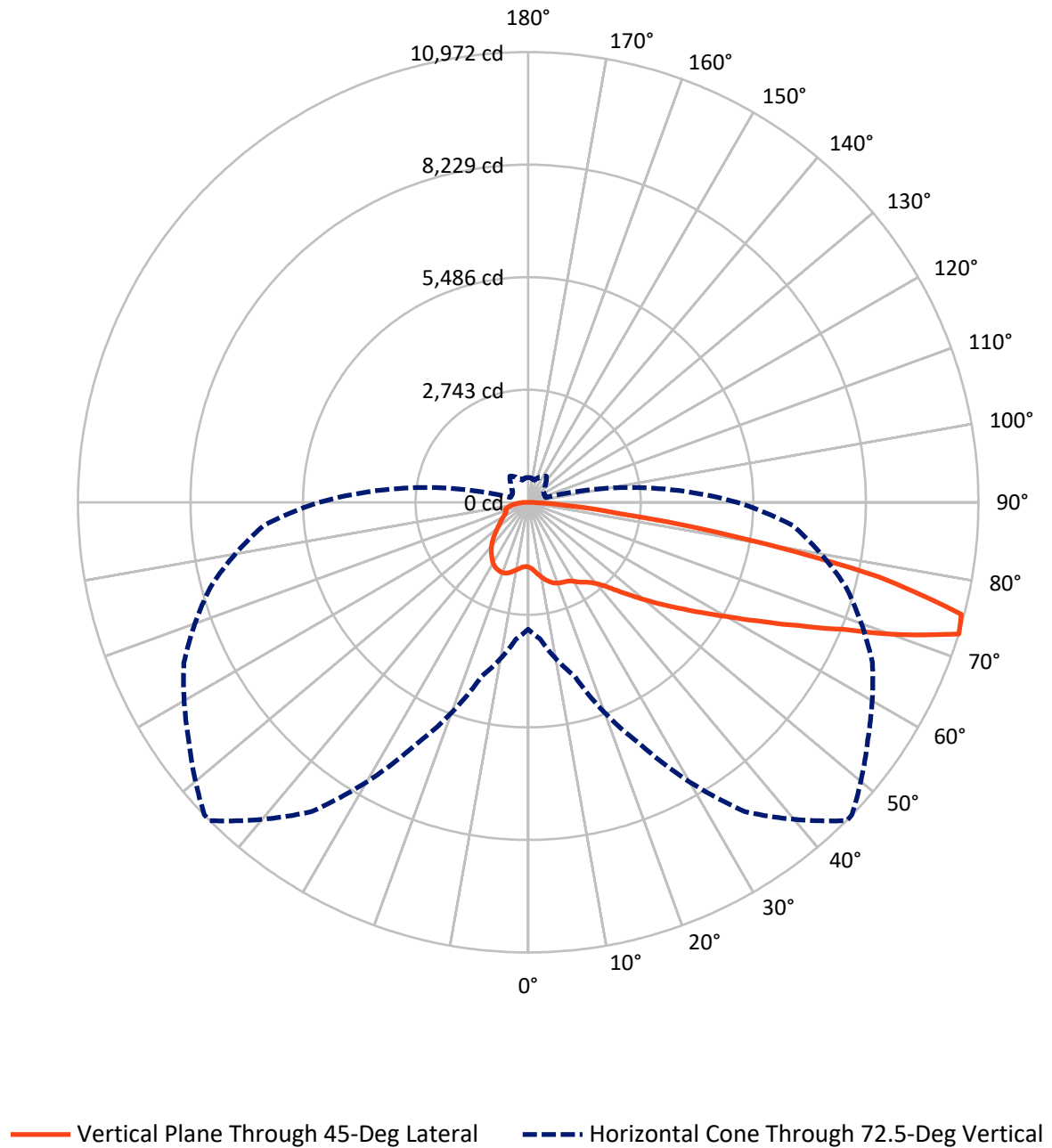


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P948084

CATALOG NUMBER: GALN-SB3B-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P948084

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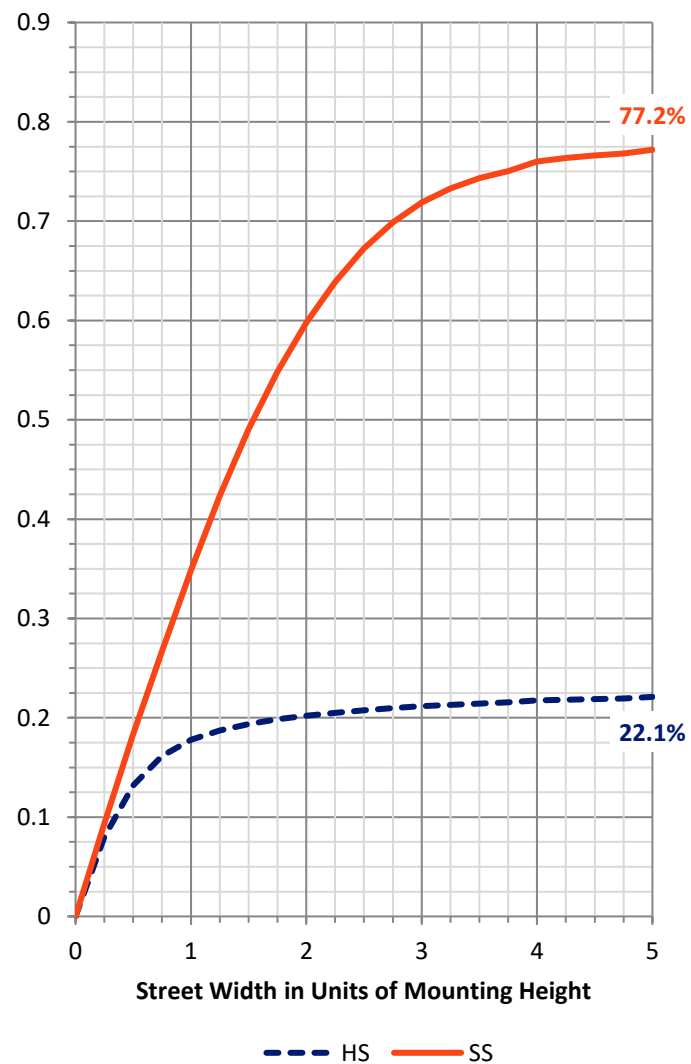
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3535.7	0.0	3535.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12104.3	0.0	12104.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	15640.0	0.0	15640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	1.0
10°-20°	535.4	3.4
20°-30°	931.4	6.0
30°-40°	1335.2	8.5
40°-50°	1880.0	12.0
50°-60°	2879.6	18.4
60°-70°	4171.6	26.7
70°-80°	3331.3	21.3
80°-90°	414.9	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°	15640.0	100.0
0°-180°	15640.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948084

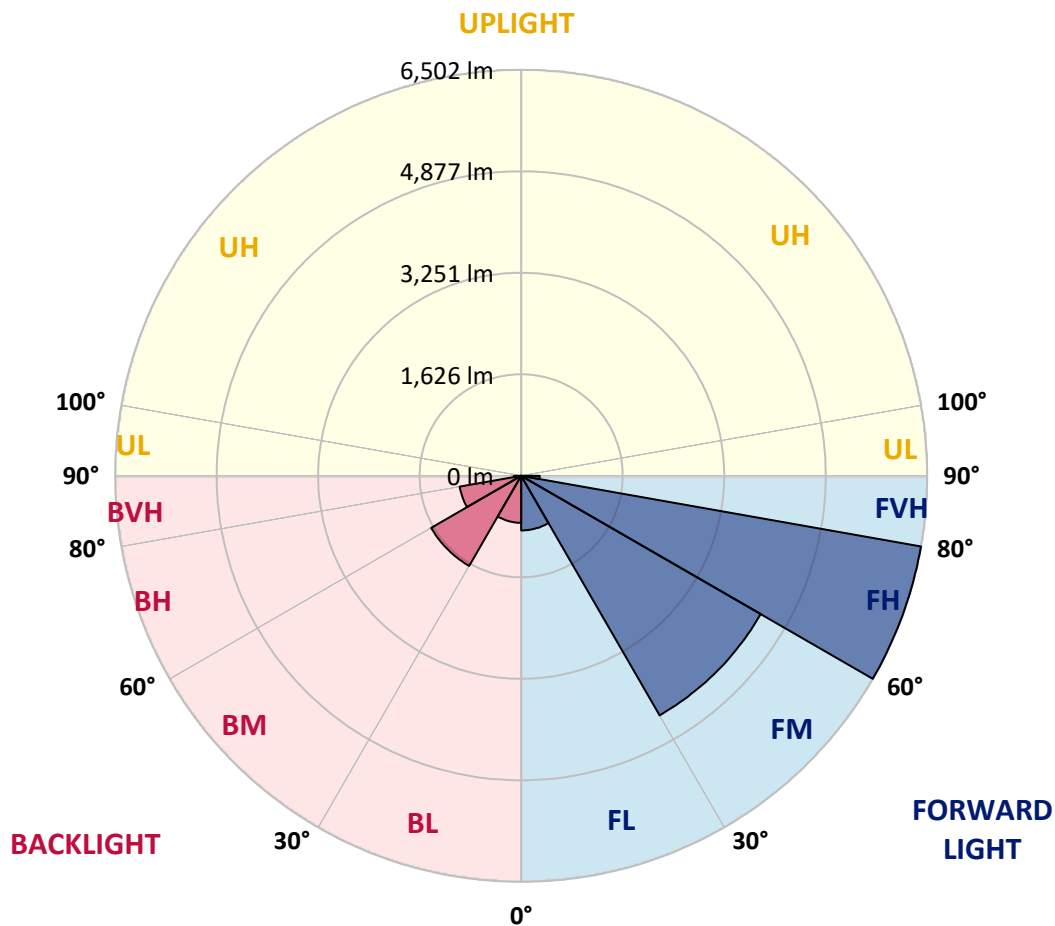
CATALOG NUMBER: GALN-SB3B-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.6	5.6			
FM	(30°-60°)	4430.1	28.3			
FH	(60°-80°)	6502.0	41.6			G3/7500
FVH	(80°-90°)	297.7	1.9			G3/500
BL	(0°-30°)	752.8	4.8	B2/1000		
BM	(30°-60°)	1664.8	10.6	B2/2500		
BH	(60°-80°)	1000.9	6.4	B3/2500		G3/2500
BVH	(80°-90°)	117.2	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



REPORT NUMBER: P948084

CATALOG NUMBER: GALN-SB3B-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8
2.5°	1639.6	1650.3	1640.4	1631.3	1627.2	1616.5	1615.7	1609.1	1605.0	1593.4	1590.1
5°	1754.1	1768.1	1751.6	1733.5	1717.0	1690.6	1687.4	1668.4	1647.0	1622.3	1608.3
7.5°	1883.4	1895.8	1876.8	1849.7	1820.8	1777.2	1776.3	1741.7	1707.9	1665.9	1642.0
10°	1996.3	2012.8	1987.3	1950.2	1913.9	1864.5	1858.7	1819.2	1776.3	1722.0	1685.7
12.5°	2096.0	2107.5	2082.8	2037.5	1995.5	1946.1	1938.6	1895.0	1847.2	1785.4	1739.3
15°	2175.1	2189.9	2157.0	2108.4	2063.9	2015.3	2008.7	1969.1	1921.3	1856.3	1796.9
17.5°	2227.0	2239.4	2205.6	2151.2	2108.4	2068.0	2063.0	2030.1	1988.1	1922.2	1858.7
20°	2246.8	2260.0	2224.5	2169.3	2129.8	2098.5	2096.0	2072.1	2043.3	1983.1	1918.9
22.5°	2266.6	2278.9	2232.8	2175.1	2140.5	2120.7	2119.9	2104.2	2092.7	2043.3	1980.7
25°	2346.5	2349.8	2288.0	2204.8	2155.3	2138.0	2137.2	2136.4	2141.3	2102.6	2047.4
27.5°	2415.7	2414.9	2362.1	2283.9	2207.2	2171.0	2170.2	2178.4	2194.0	2161.9	2116.6
30°	2517.0	2508.0	2445.3	2363.8	2293.7	2237.7	2232.8	2225.4	2237.7	2212.2	2185.8
32.5°	2732.1	2703.2	2601.9	2456.9	2365.4	2322.6	2316.0	2269.8	2274.8	2259.1	2246.0
35°	3040.2	3002.3	2867.2	2633.2	2454.4	2393.4	2390.1	2331.6	2321.8	2307.7	2312.7
37.5°	3406.8	3359.9	3202.5	2888.6	2607.6	2475.8	2470.9	2418.2	2377.8	2362.9	2391.0
40°	3775.1	3715.8	3585.6	3200.0	2833.4	2613.4	2597.8	2517.8	2471.7	2447.0	2506.3
42.5°	4132.7	4083.3	3972.0	3549.4	3111.9	2814.4	2779.8	2643.1	2608.5	2585.4	2692.5
45°	4449.1	4404.6	4323.0	3922.6	3438.1	3088.0	3054.2	2830.9	2820.2	2820.2	2975.1
47.5°	4706.1	4696.2	4609.7	4303.2	3822.9	3399.4	3340.9	3092.1	3120.9	3165.4	3376.3
50°	4991.2	4964.0	4871.7	4678.1	4275.2	3756.2	3708.4	3412.6	3520.5	3642.5	3956.4
52.5°	5253.2	5268.0	5165.0	5068.6	4786.0	4154.1	4070.1	3790.8	4023.9	4225.8	4636.1
55°	5522.6	5523.4	5494.6	5481.4	5321.6	4594.1	4501.8	4245.6	4616.3	4866.8	5428.7
57.5°	5775.6	5777.2	5820.0	5936.2	5942.8	5101.6	4997.0	4804.2	5274.6	5530.0	6246.0
60°	6001.3	6012.8	6129.8	6401.7	6489.0	5683.3	5584.4	5464.1	5955.2	6212.2	7105.3
62.5°	6077.1	6119.1	6379.5	6765.9	7028.7	6396.8	6299.6	6227.9	6670.3	6909.2	7823.8
65°	5948.6	6045.0	6548.4	7066.6	7584.0	7244.6	7148.2	7069.9	7413.5	7638.4	8413.7
67.5°	5633.0	5757.4	6538.5	7382.2	8258.0	8264.6	8174.8	7991.0	8210.2	8296.7	8605.7
70°	4801.7	4987.9	5962.6	7500.0	9031.6	9659.4	9572.9	9100.0	9005.2	8586.7	8065.2
72.5°	3093.8	3344.2	4390.6	6530.2	9203.8	10971.9	10967.0	10101.0	9256.5	8023.2	6468.5
75°	1128.7	1282.0	2040.0	4098.9	7725.7	10905.2	10937.3	9929.7	8449.9	6197.4	4029.7
77.5°	411.1	449.9	665.7	1575.3	4751.4	8749.8	8816.6	7938.3	6014.5	3110.2	1596.7
80°	215.9	237.3	341.1	611.3	2035.9	5196.3	5301.0	4717.7	2826.8	936.8	478.7
82.5°	119.5	129.4	191.1	332.0	917.0	2222.1	2284.7	1863.7	994.4	397.1	197.7
85°	64.3	68.4	89.8	181.3	448.2	770.3	787.6	557.0	396.3	233.2	95.6
87.5°	18.9	23.1	29.7	57.7	175.5	173.0	177.1	110.4	156.5	117.8	31.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948084

CATALOG NUMBER: GALN-SB3B-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8	1577.8
2.5°	1585.2	1582.7	1573.7	1569.5	1564.6	1563.8	1567.9	1568.7	1569.5	1570.4	1573.7
5°	1600.0	1591.8	1583.5	1578.6	1580.2	1581.1	1589.3	1595.1	1599.2	1602.5	1604.1
7.5°	1628.9	1622.3	1608.3	1607.4	1609.9	1617.3	1628.0	1641.2	1648.6	1654.4	1656.0
10°	1671.7	1659.3	1642.9	1645.3	1650.3	1661.0	1683.2	1693.9	1706.3	1717.0	1714.5
12.5°	1715.4	1704.7	1685.7	1687.4	1695.6	1714.5	1736.0	1749.1	1757.4	1765.6	1768.9
15°	1772.2	1753.3	1732.7	1732.7	1747.5	1768.1	1778.0	1788.7	1793.6	1802.7	1806.0
17.5°	1830.7	1806.0	1778.8	1777.2	1795.3	1805.2	1810.9	1812.6	1814.2	1824.1	1827.4
20°	1889.2	1862.0	1823.3	1820.0	1824.1	1822.5	1821.6	1820.0	1822.5	1834.8	1839.8
22.5°	1946.9	1915.6	1862.0	1847.2	1835.7	1820.0	1819.2	1818.4	1820.0	1832.4	1840.6
25°	2014.4	1976.5	1904.9	1860.4	1821.6	1800.2	1802.7	1803.5	1805.2	1815.1	1828.2
27.5°	2087.8	2045.7	1944.4	1856.3	1786.2	1771.4	1767.3	1769.7	1775.5	1791.2	1806.8
30°	2161.1	2111.7	1980.7	1839.8	1741.7	1721.1	1707.9	1713.7	1731.8	1747.5	1764.8
32.5°	2227.8	2178.4	2009.5	1803.5	1684.9	1652.7	1635.4	1642.9	1661.0	1666.8	1687.4
35°	2306.1	2250.1	2021.9	1745.8	1623.1	1573.7	1550.6	1539.9	1548.9	1543.2	1561.3
37.5°	2393.4	2334.9	2020.2	1670.0	1550.6	1493.7	1461.6	1421.2	1402.3	1382.5	1394.9
40°	2522.8	2438.7	2000.4	1578.6	1460.8	1408.9	1351.2	1282.8	1240.0	1201.2	1203.7
42.5°	2699.1	2582.9	1964.2	1478.1	1359.4	1310.8	1232.6	1152.6	1085.1	1020.8	1015.0
45°	2961.9	2771.6	1918.9	1371.0	1249.9	1202.1	1117.2	1027.4	950.8	868.4	858.5
47.5°	3340.9	3025.4	1876.0	1249.0	1134.5	1090.8	1014.2	931.0	840.4	760.5	751.4
50°	3861.6	3389.5	1836.5	1130.4	1020.8	987.9	926.9	842.0	750.6	686.3	682.2
52.5°	4524.0	3884.7	1820.0	1015.9	914.5	902.2	853.6	774.5	688.0	633.6	629.5
55°	5284.5	4477.1	1820.0	906.3	821.4	825.5	791.8	718.4	643.5	594.9	589.9
57.5°	6060.6	5076.9	1787.0	805.0	742.3	759.6	738.2	674.0	606.4	556.1	547.9
60°	6775.8	5579.5	1653.6	712.7	672.3	699.5	685.5	630.3	547.9	505.9	499.3
62.5°	7325.3	5862.9	1396.5	639.3	614.6	645.9	638.5	572.6	537.2	519.9	514.1
65°	7600.5	5816.7	1067.8	574.3	566.0	614.6	599.0	596.5	568.5	548.7	542.1
67.5°	7431.6	5419.6	774.5	526.5	538.0	585.8	645.9	655.8	603.9	565.2	558.6
70°	6690.9	4701.2	576.7	481.2	502.6	586.6	736.6	686.3	592.4	547.1	539.7
72.5°	5090.1	3505.7	447.4	433.4	456.4	590.7	776.9	672.3	559.4	604.7	599.8
75°	2910.8	1924.6	359.2	374.9	398.8	552.0	756.3	636.1	533.9	555.3	555.3
77.5°	1109.8	739.9	296.6	317.2	320.5	482.0	723.4	633.6	508.3	496.0	452.3
80°	384.8	289.2	245.5	252.1	248.0	428.4	693.7	551.2	416.1	372.4	360.0
82.5°	157.4	144.2	194.4	186.2	176.3	332.9	560.3	450.7	340.3	300.7	297.4
85°	68.4	91.5	128.5	112.9	102.2	230.7	449.0	381.5	287.5	248.0	247.2
87.5°	14.0	34.6	54.4	51.1	52.7	154.1	318.8	271.1	203.5	152.4	119.5
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)