

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: LUMARK

Report Number: P286980

Luminaire Tested: **PRV-C40-D-UNV-T4-BZ-7050**

Issue Date: 3/4/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P286980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-8)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 3/4/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-C40-D-UNV-T4-BZ-7050  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17398 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

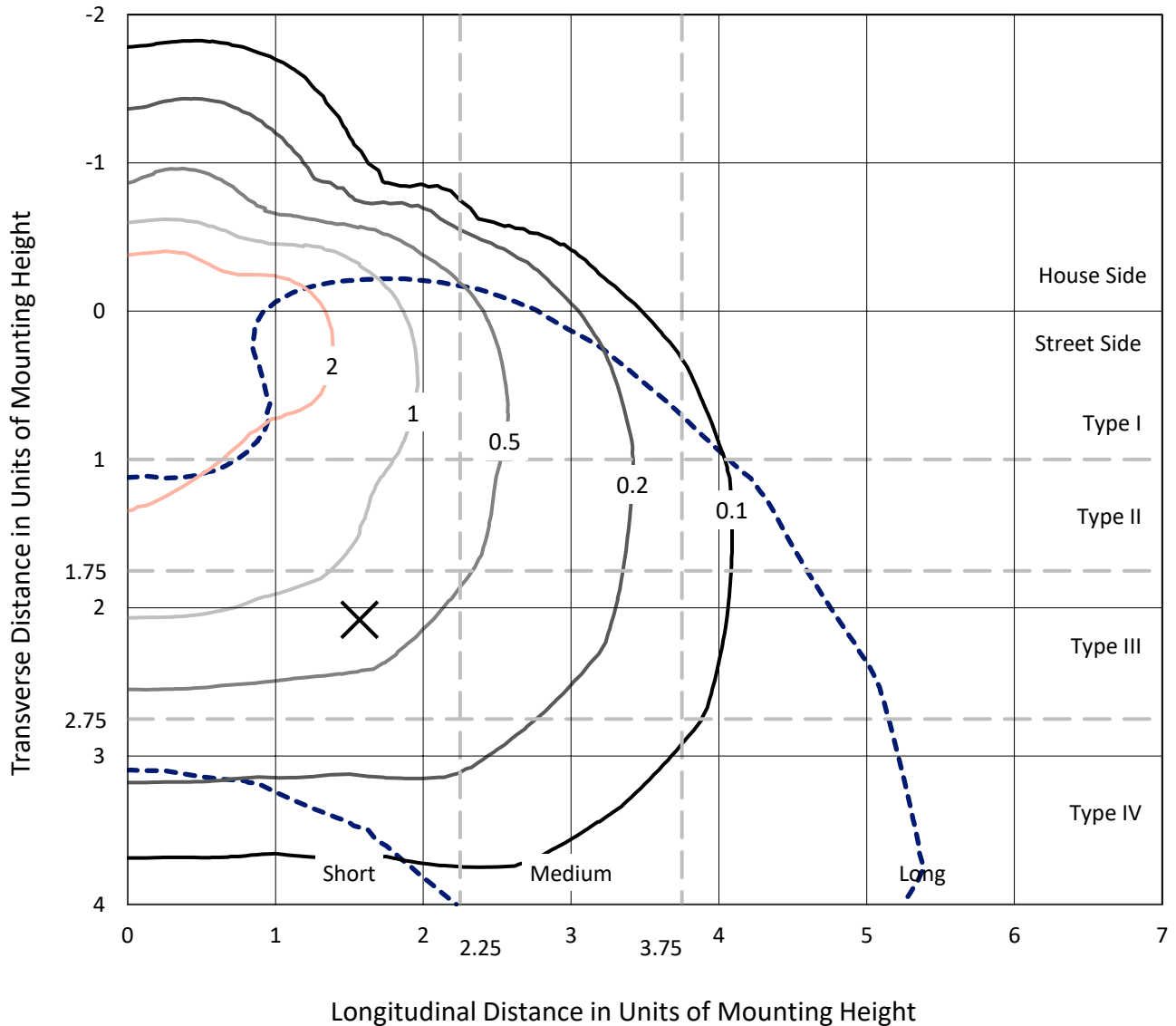
Input Watts (W): 131  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

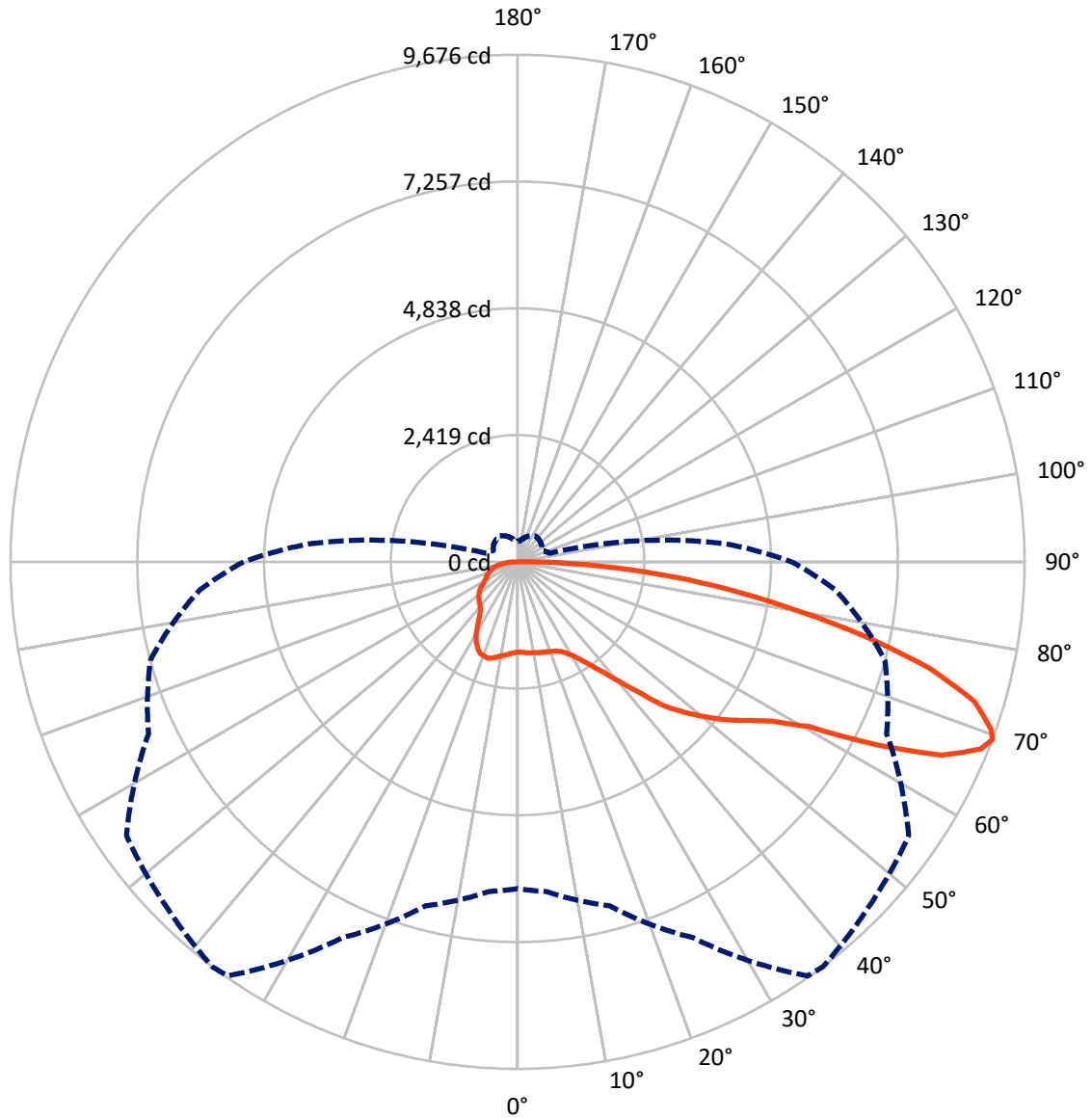
× Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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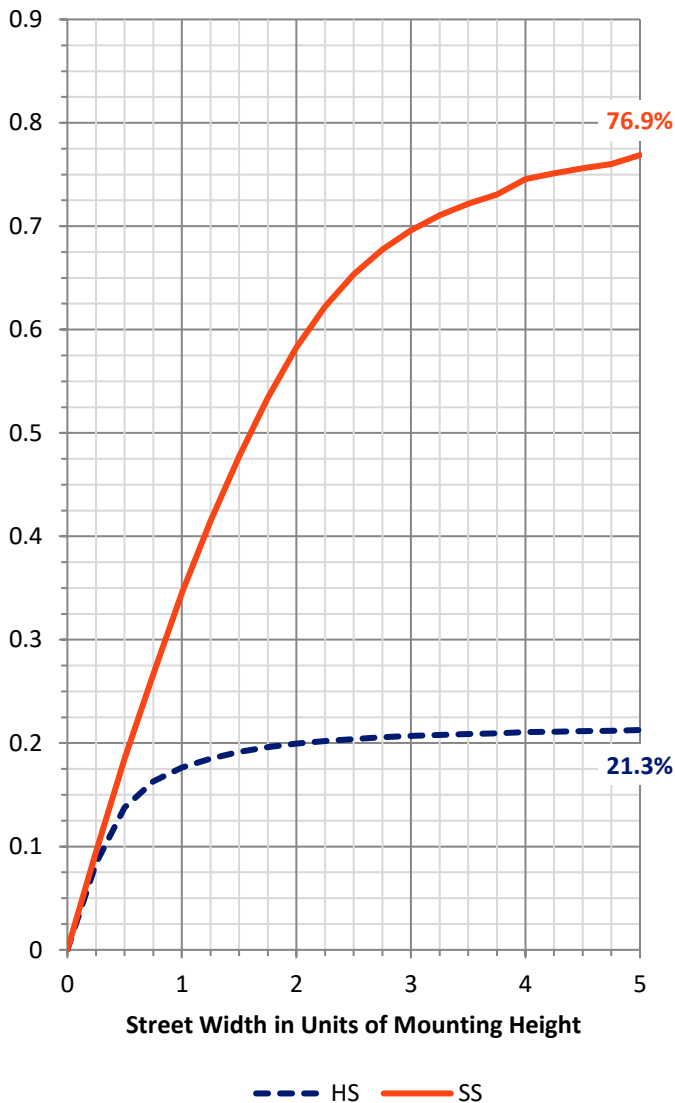
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3751.6	0.0	3751.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	13646.4	0.0	13646.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	17398.0	0.0	17398.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.2	1.0
10°-20°	525.7	3.0
20°-30°	898.2	5.2
30°-40°	1423.9	8.2
40°-50°	2419.5	13.9
50°-60°	3430.4	19.7
60°-70°	4365.4	25.1
70°-80°	3350.2	19.3
80°-90°	816.6	4.7
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°	17398.0	100.0
0°-180°	17398.0	100.0

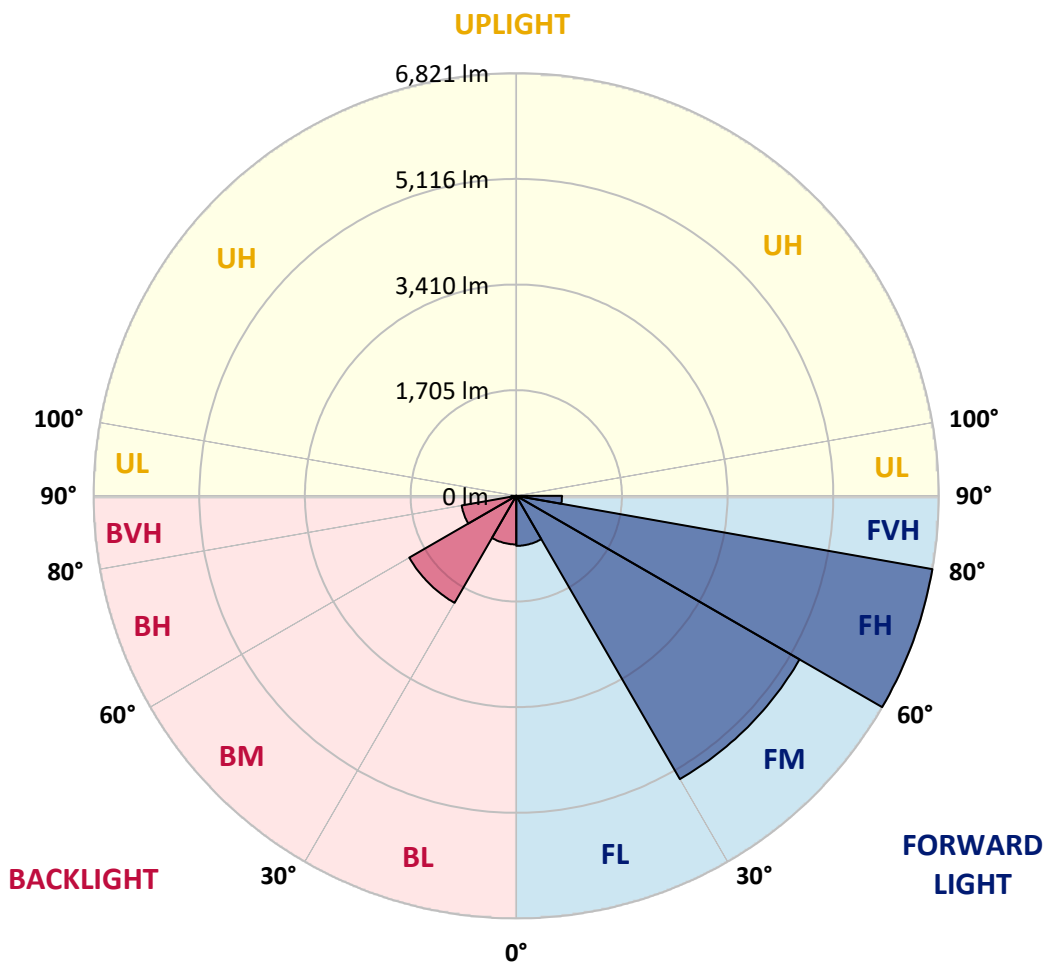


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.6	4.6			
FM (30°-60°)	5280.0	30.3			
FH (60°-80°)	6820.7	39.2			G3/7500
FVH (80°-90°)	738.1	4.2			G4/750
BL (0°-30°)	784.5	4.5	B2/1000		
BM (30°-60°)	1993.8	11.5	B2/2500		
BH (60°-80°)	894.8	5.1	B2/1000		G2/1000
BVH (80°-90°)	78.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9
2.5°	1756.1	1746.7	1746.7	1727.1	1727.1	1725.4	1729.7	1719.4	1717.7	1716.0	1710.1
5°	1778.3	1774.9	1763.0	1748.5	1755.3	1745.9	1745.9	1732.2	1733.1	1731.4	1722.0
7.5°	1773.2	1779.2	1778.3	1761.3	1756.1	1758.7	1759.5	1760.4	1751.9	1751.0	1744.2
10°	1789.4	1783.4	1786.0	1759.5	1766.4	1760.4	1769.8	1768.9	1768.9	1768.9	1761.3
12.5°	1755.3	1762.1	1764.7	1768.9	1781.7	1781.7	1797.1	1803.1	1815.9	1824.4	1814.2
15°	1745.9	1739.9	1764.7	1762.1	1792.0	1789.4	1814.2	1847.4	1858.5	1881.6	1887.5
17.5°	1740.8	1752.7	1771.5	1770.6	1799.7	1805.6	1839.8	1877.3	1908.9	1947.3	1960.9
20°	1755.3	1755.3	1774.9	1783.4	1827.8	1827.8	1863.7	1910.6	1960.1	2016.4	2045.4
22.5°	1801.4	1803.1	1821.0	1811.6	1839.8	1850.0	1880.7	1933.6	2010.4	2071.9	2131.6
25°	1827.8	1838.1	1859.4	1856.8	1884.1	1891.8	1928.5	1996.8	2079.5	2160.6	2260.4
27.5°	1889.3	1890.1	1907.2	1902.1	1966.9	1970.3	2003.6	2055.6	2176.0	2269.0	2408.9
30°	1978.0	1983.1	1994.2	2009.6	2077.0	2073.6	2095.8	2164.9	2280.9	2406.4	2596.7
32.5°	2170.8	2159.8	2146.1	2148.7	2215.2	2234.0	2276.7	2358.6	2501.9	2653.8	2859.5
35°	2499.4	2492.5	2443.1	2385.0	2408.1	2430.3	2500.2	2657.2	2878.2	3234.9	3418.4
37.5°	2928.6	2949.1	2856.1	2732.3	2682.0	2687.1	2752.0	2964.4	3325.4	3999.5	4115.6
40°	3472.2	3441.4	3327.1	3161.6	3034.4	3008.0	3028.4	3300.6	3825.4	4673.6	4695.8
42.5°	3869.0	3873.2	3743.5	3623.2	3456.8	3407.3	3373.2	3630.9	4342.5	5193.3	5114.8
45°	4328.9	4362.2	4220.5	4096.8	3979.9	3928.7	3877.5	4035.4	4877.6	5606.3	5471.5
47.5°	4718.9	4724.8	4542.2	4450.1	4320.4	4297.3	4247.8	4399.7	5312.8	5930.6	5746.3
50°	5080.7	5143.0	4905.7	4774.3	4666.0	4651.4	4669.4	4812.7	5736.9	6211.3	5968.1
52.5°	5701.9	5606.3	5329.0	5081.5	5014.1	5015.0	5011.5	5245.4	6175.5	6447.7	6150.7
55°	6274.5	6088.4	5782.1	5503.9	5339.2	5340.9	5369.9	5655.8	6539.0	6675.5	6275.3
57.5°	6632.9	6735.3	6454.5	6037.2	5725.8	5730.9	5730.0	6039.8	6851.3	6876.1	6371.7
60°	7155.9	7278.0	7204.6	6891.4	6473.3	6381.1	6148.2	6473.3	7172.2	7068.0	6474.1
62.5°	7538.2	7628.7	7832.6	7657.7	7681.6	7691.0	6958.8	6967.4	7401.7	7226.8	6496.3
65°	7539.1	7537.4	8011.0	8229.4	8798.6	8897.6	8589.5	7650.0	7619.3	7252.4	6411.0
67.5°	6818.9	6863.3	7361.6	8173.1	9460.8	9535.0	9337.9	8729.5	7731.9	7281.4	6272.8
69°	6236.9	6315.4	6797.5	7913.7	9648.5	9675.8	9409.6	9110.0	7772.9	7256.6	6079.9
70°	5852.1	5855.5	6347.0	7593.7	9553.8	9584.5	9404.4	9174.9	7737.9	7186.7	5928.0
72.5°	4618.2	4666.8	5102.0	6451.1	9088.7	9118.6	9056.3	9004.2	7687.6	6876.9	5098.6
75°	3376.6	3409.0	3806.7	5053.4	7947.8	8127.9	8400.9	8692.8	7163.6	5913.5	3838.2
77.5°	2368.0	2410.6	2820.2	3835.7	6473.3	6720.7	7336.0	7609.1	6069.7	4631.8	2140.1
80°	1581.2	1634.1	2006.2	2856.9	4927.9	5180.5	5892.2	6009.9	4642.9	2778.4	424.1
82.5°	1006.1	1019.7	1315.8	2019.0	3665.0	3810.1	4067.8	3821.2	2461.0	633.2	125.4
85°	587.1	611.8	796.1	1267.2	2259.6	2425.1	2537.8	1896.1	594.8	85.3	67.4
87.5°	221.0	231.2	322.6	547.8	1057.3	1041.1	1010.3	640.0	106.7	39.3	30.7
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°	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9	1722.9
2.5°	1709.2	1724.6	1716.9	1713.5	1711.8	1720.3	1736.5	1732.2	1729.7	1757.8	1760.4
5°	1722.0	1743.3	1742.5	1745.9	1740.8	1751.0	1758.7	1761.3	1763.8	1793.7	1797.9
7.5°	1745.9	1755.3	1758.7	1772.3	1764.7	1780.9	1794.5	1780.9	1793.7	1815.0	1819.3
10°	1767.2	1781.7	1782.6	1803.9	1796.2	1811.6	1815.0	1815.0	1825.3	1850.0	1845.7
12.5°	1818.4	1819.3	1849.1	1850.9	1861.1	1860.2	1853.4	1833.8	1824.4	1857.7	1860.2
15°	1892.7	1902.1	1940.4	1937.9	1925.1	1918.3	1889.3	1840.6	1812.5	1807.3	1807.3
17.5°	1982.3	1984.8	2034.3	2024.1	2003.6	1959.2	1911.4	1825.3	1745.9	1720.3	1704.9
20°	2055.6	2077.0	2137.6	2102.6	2066.7	1995.1	1890.1	1771.5	1648.6	1586.3	1570.1
22.5°	2155.5	2197.3	2232.3	2181.1	2106.0	2001.9	1863.7	1693.0	1531.7	1434.4	1417.4
25°	2297.1	2321.0	2319.3	2230.6	2112.0	1980.6	1787.7	1582.1	1384.9	1278.3	1246.7
27.5°	2443.1	2460.1	2388.4	2268.1	2091.5	1920.0	1688.7	1437.0	1236.5	1140.9	1117.0
30°	2608.6	2591.5	2442.2	2251.9	2037.7	1813.3	1549.6	1277.4	1107.6	1023.1	1010.3
32.5°	2863.7	2775.8	2490.0	2214.4	1940.4	1666.5	1379.8	1163.1	1024.0	925.0	907.9
35°	3306.6	3120.6	2575.3	2181.1	1822.7	1501.8	1233.9	1083.7	949.7	832.8	810.7
37.5°	3879.2	3583.1	2735.7	2123.9	1683.6	1341.4	1140.9	1017.2	893.4	763.7	739.0
40°	4440.7	4066.9	2951.6	2066.7	1552.2	1232.2	1088.0	990.7	871.2	738.1	711.7
42.5°	4850.3	4454.3	3187.2	2012.1	1425.0	1146.9	1061.5	983.0	872.1	742.4	717.6
45°	5159.2	4761.5	3426.1	1937.0	1276.6	1081.2	1036.8	975.3	871.2	746.7	715.9
47.5°	5431.4	4962.9	3590.8	1838.1	1135.8	1030.0	1006.9	946.3	849.9	728.7	702.3
50°	5623.4	5154.1	3698.3	1751.9	1027.4	984.7	965.1	899.4	799.6	693.7	663.0
52.5°	5759.1	5277.8	3711.1	1730.5	945.5	945.5	914.8	846.5	750.1	643.4	613.5
55°	5901.6	5348.6	3655.6	1651.2	859.3	880.6	861.0	810.7	717.6	608.4	589.6
57.5°	5895.6	5312.8	3544.7	1326.9	762.9	785.1	792.7	779.1	705.7	617.0	599.0
60°	5934.8	5276.1	3360.4	922.4	671.6	705.7	738.1	738.1	668.1	563.2	544.4
62.5°	5914.4	5191.6	2967.0	650.2	599.0	653.6	694.6	663.0	594.8	506.0	494.1
65°	5781.2	4951.0	2225.5	552.1	573.4	623.8	661.3	612.7	542.7	457.4	448.8
67.5°	5538.0	4508.1	1183.6	516.3	562.3	603.3	623.8	570.9	501.8	415.6	406.2
69°	5228.3	3972.2	634.9	511.1	560.6	586.2	600.7	546.1	471.0	395.1	395.1
70°	4907.4	3548.1	410.4	513.7	553.8	576.0	584.5	529.1	453.1	373.8	370.3
72.5°	3845.1	2281.8	343.0	488.1	533.3	543.6	542.7	483.8	397.6	284.2	289.3
75°	2333.8	696.3	327.7	446.3	499.2	520.5	506.9	406.2	309.8	238.1	238.1
77.5°	634.9	244.0	310.6	407.0	455.7	461.6	457.4	378.0	276.5	197.1	198.8
80°	189.4	189.4	289.3	339.6	386.6	413.9	392.5	331.9	221.9	104.1	107.5
82.5°	109.2	122.9	242.3	238.9	312.3	311.5	311.5	237.2	150.2	68.3	55.5
85°	58.0	87.0	131.4	137.4	146.8	165.5	224.4	204.8	113.5	30.7	6.8
87.5°	33.3	49.5	35.8	25.6	53.8	98.1	145.1	139.1	94.7	0.9	0.0
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)