

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: P286972

Luminaire Tested: **PRV-C40-D-UNV-T4-BZ-7030**

Issue Date: 3/4/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P286972  
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-7030  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16777 lumens  
Efficiency: N/A  
Efficacy: 128.1 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

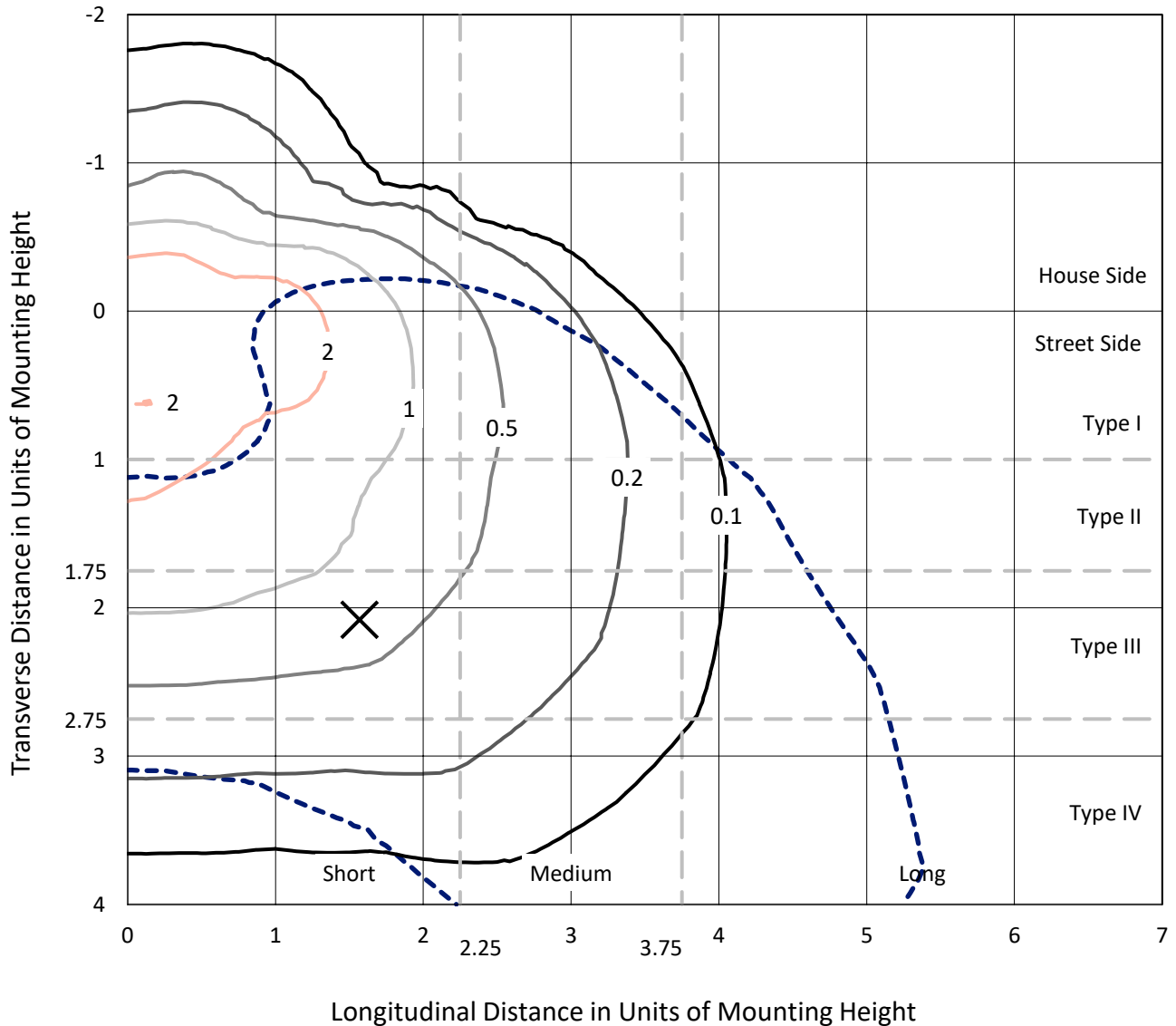
Input Watts (W): 131  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

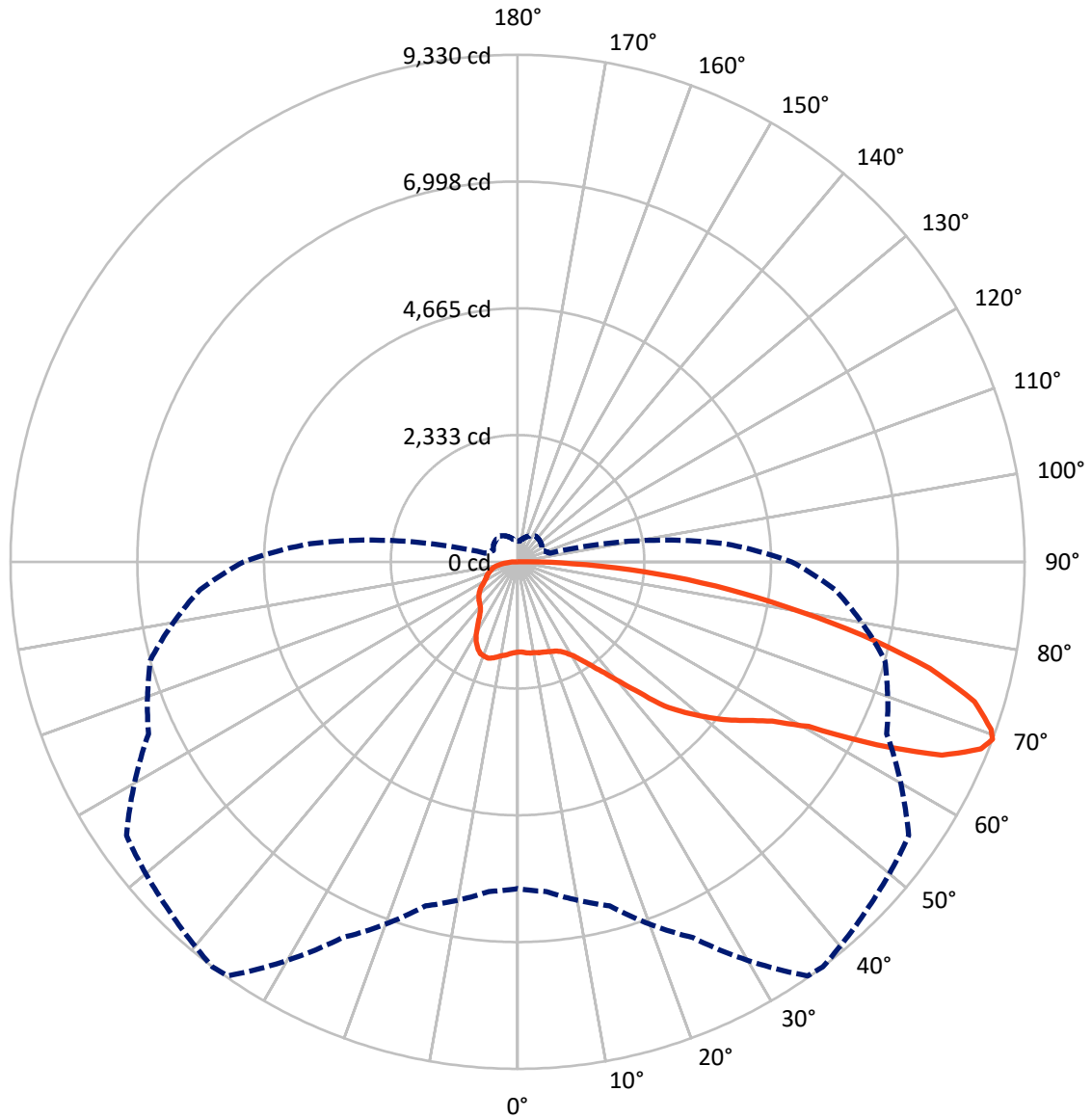
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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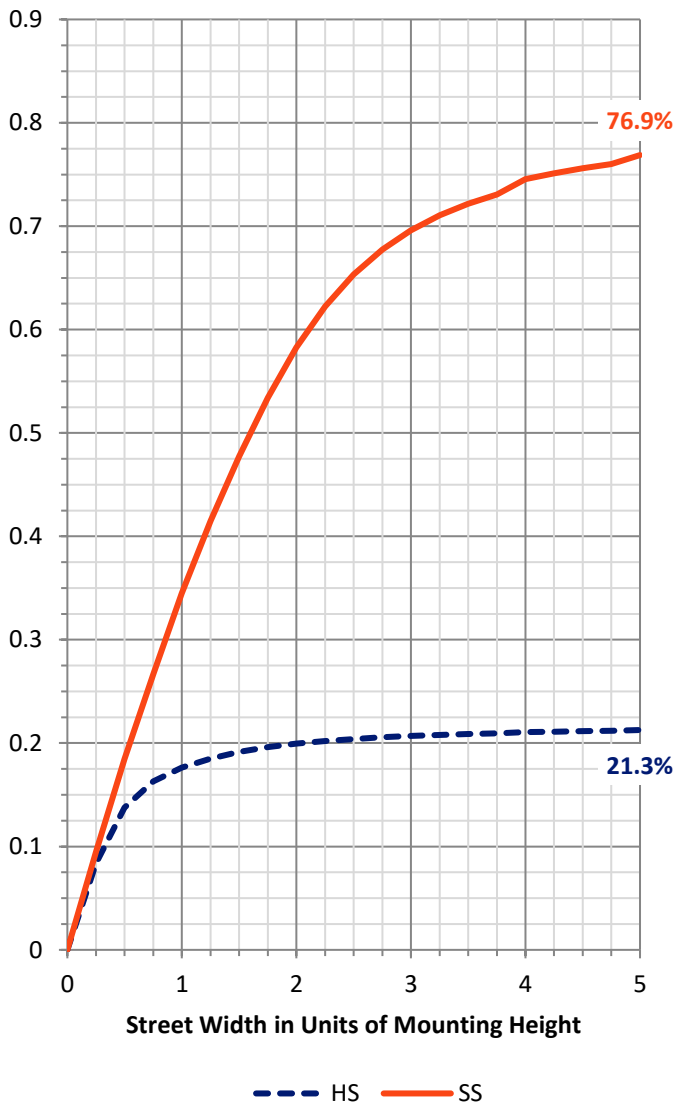
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3617.6	0.0	3617.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	13159.3	0.0	13159.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	16777.0	0.0	16777.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.2	1.0
10°-20°	506.9	3.0
20°-30°	866.1	5.2
30°-40°	1373.1	8.2
40°-50°	2333.2	13.9
50°-60°	3307.9	19.7
60°-70°	4209.6	25.1
70°-80°	3230.6	19.3
80°-90°	787.4	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°	16777.0	100.0
0°-180°	16777.0	100.0

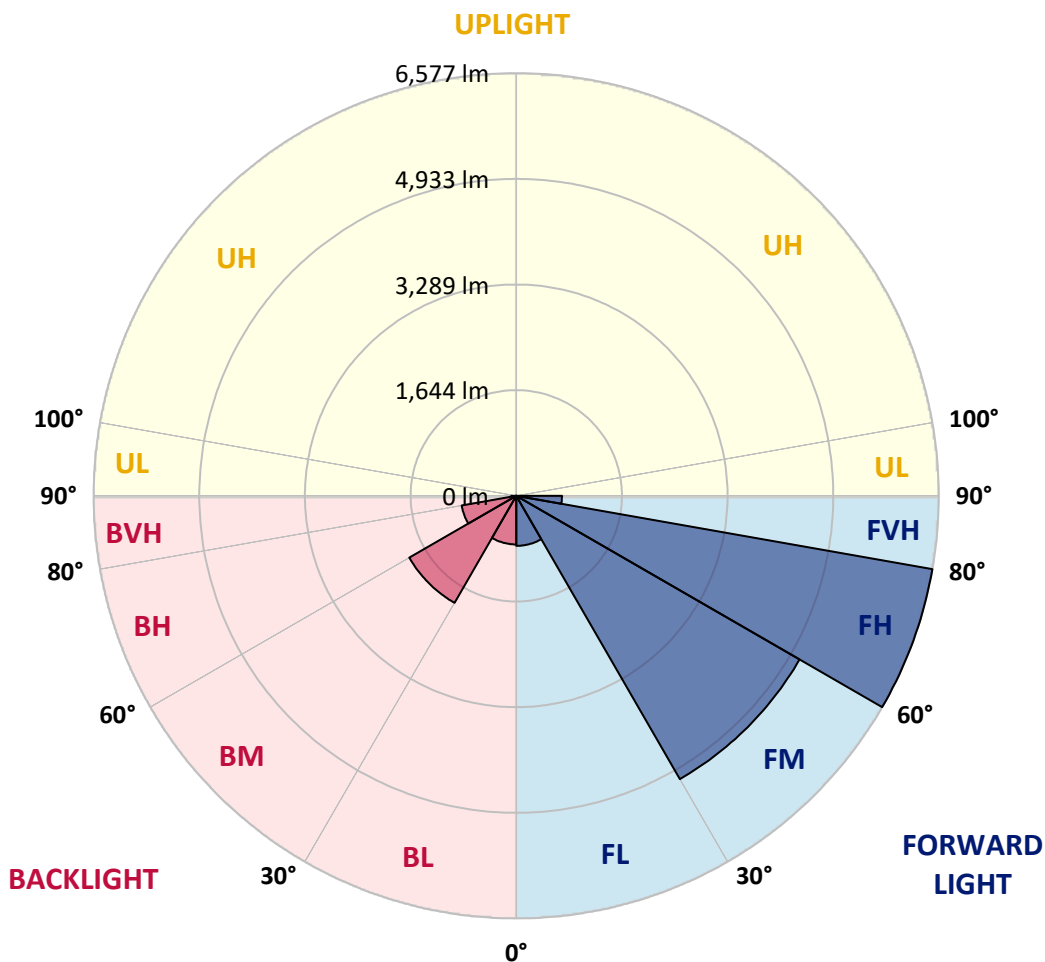


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.8	4.6			
FM (30°-60°)	5091.5	30.3			
FH (60°-80°)	6577.2	39.2			G3/7500
FVH (80°-90°)	711.8	4.2			G4/750
BL (0°-30°)	756.5	4.5	B2/1000		
BM (30°-60°)	1922.6	11.5	B2/2500		
BH (60°-80°)	862.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	75.6	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°	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4
2.5°	1693.4	1684.4	1684.4	1665.5	1665.5	1663.8	1667.9	1658.1	1656.4	1654.8	1649.0
5°	1714.8	1711.6	1700.0	1686.0	1692.6	1683.6	1683.6	1670.4	1671.2	1669.6	1660.5
7.5°	1709.9	1715.7	1714.8	1698.4	1693.4	1695.9	1696.7	1697.6	1689.3	1688.5	1681.9
10°	1725.5	1719.8	1722.2	1696.7	1703.3	1697.6	1706.6	1705.8	1705.8	1705.8	1698.4
12.5°	1692.6	1699.2	1701.7	1705.8	1718.1	1718.1	1732.9	1738.7	1751.0	1759.3	1749.4
15°	1683.6	1677.8	1701.7	1699.2	1728.0	1725.5	1749.4	1781.5	1792.2	1814.4	1820.2
17.5°	1678.6	1690.2	1708.3	1707.4	1735.4	1741.2	1774.1	1810.3	1840.7	1877.8	1890.9
20°	1692.6	1692.6	1711.6	1719.8	1762.6	1762.6	1797.1	1842.4	1890.1	1944.4	1972.4
22.5°	1737.1	1738.7	1756.0	1746.9	1774.1	1784.0	1813.6	1864.6	1938.7	1997.9	2055.5
25°	1762.6	1772.4	1793.0	1790.5	1816.9	1824.3	1859.7	1925.5	2005.3	2083.5	2179.8
27.5°	1821.8	1822.6	1839.1	1834.2	1896.7	1900.0	1932.1	1982.3	2098.3	2188.0	2322.9
30°	1907.4	1912.3	1923.0	1937.8	2002.8	1999.6	2020.9	2087.6	2199.5	2320.5	2504.0
32.5°	2093.4	2082.7	2069.5	2072.0	2136.1	2154.3	2195.4	2274.4	2412.6	2559.1	2757.4
35°	2410.2	2403.6	2355.9	2299.9	2322.1	2343.5	2411.0	2562.4	2775.5	3119.5	3296.4
37.5°	2824.1	2843.8	2754.1	2634.8	2586.3	2591.2	2653.7	2858.6	3206.7	3856.8	3968.7
40°	3348.2	3318.6	3208.3	3048.7	2926.1	2900.6	2920.3	3182.8	3688.9	4506.8	4528.2
42.5°	3730.9	3735.0	3609.9	3493.9	3333.4	3285.7	3252.8	3501.3	4187.5	5007.9	4932.2
45°	4174.4	4206.5	4069.9	3950.6	3837.8	3788.5	3739.1	3891.3	4703.5	5406.2	5276.2
47.5°	4550.4	4556.2	4380.1	4291.2	4166.1	4143.9	4096.2	4242.7	5123.1	5718.9	5541.2
50°	4899.3	4959.4	4730.6	4603.9	4499.4	4485.4	4502.7	4640.9	5532.1	5989.6	5755.1
52.5°	5498.4	5406.2	5138.8	4900.1	4835.1	4836.0	4832.7	5058.1	5955.1	6217.5	5931.2
55°	6050.5	5871.1	5575.7	5307.5	5148.6	5150.3	5178.3	5453.9	6305.6	6437.2	6051.3
57.5°	6396.1	6494.8	6224.1	5821.7	5521.4	5526.3	5525.5	5824.2	6606.8	6630.6	6144.3
60°	6900.5	7018.2	6947.4	6645.4	6242.2	6153.4	5928.7	6242.2	6916.2	6815.8	6243.1
62.5°	7269.2	7356.4	7553.0	7384.4	7407.4	7416.5	6710.4	6718.7	7137.5	6968.8	6264.4
65°	7270.0	7268.3	7725.0	7935.7	8484.5	8580.0	8282.9	7377.0	7347.3	6993.5	6182.2
67.5°	6575.5	6618.3	7098.8	7881.4	9123.1	9194.7	9004.6	8417.9	7456.0	7021.5	6048.9
69°	6014.3	6090.0	6554.9	7631.2	9304.1	9330.4	9073.7	8784.9	7495.4	6997.6	5862.9
70°	5643.2	5646.5	6120.4	7322.6	9212.8	9242.4	9068.8	8847.4	7461.7	6930.1	5716.4
72.5°	4453.3	4500.2	4919.9	6220.8	8764.3	8793.1	8733.0	8682.8	7413.2	6631.4	4916.6
75°	3256.1	3287.3	3670.8	4873.0	7664.1	7837.8	8101.1	8382.5	6907.9	5702.4	3701.2
77.5°	2283.4	2324.6	2719.6	3698.8	6242.2	6480.9	7074.1	7337.5	5853.0	4466.5	2063.7
80°	1524.8	1575.8	1934.5	2754.9	4752.0	4995.6	5681.9	5795.4	4477.2	2679.2	409.0
82.5°	970.2	983.3	1268.9	1946.9	3534.2	3674.1	3922.6	3684.8	2373.1	610.6	121.0
85°	566.1	590.0	767.7	1221.9	2178.9	2338.6	2447.2	1828.4	573.5	82.3	65.0
87.5°	213.1	223.0	311.0	528.3	1019.5	1003.9	974.3	617.1	102.9	37.9	29.6
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°	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4
2.5°	1648.2	1663.0	1655.6	1652.3	1650.7	1658.9	1674.5	1670.4	1667.9	1695.1	1697.6
5°	1660.5	1681.1	1680.3	1683.6	1678.6	1688.5	1695.9	1698.4	1700.9	1729.7	1733.8
7.5°	1683.6	1692.6	1695.9	1709.1	1701.7	1717.3	1730.5	1717.3	1729.7	1750.2	1754.3
10°	1704.1	1718.1	1719.0	1739.5	1732.1	1746.9	1750.2	1750.2	1760.1	1784.0	1779.9
12.5°	1753.5	1754.3	1783.1	1784.8	1794.7	1793.8	1787.3	1768.3	1759.3	1791.4	1793.8
15°	1825.1	1834.2	1871.2	1868.7	1856.4	1849.8	1821.8	1774.9	1747.8	1742.8	1742.8
17.5°	1911.5	1914.0	1961.7	1951.8	1932.1	1889.3	1843.2	1760.1	1683.6	1658.9	1644.1
20°	1982.3	2002.8	2061.3	2027.5	1993.0	1923.9	1822.6	1708.3	1589.8	1529.7	1514.1
22.5°	2078.5	2118.9	2152.6	2103.2	2030.8	1930.4	1797.1	1632.6	1477.0	1383.2	1366.8
25°	2215.1	2238.2	2236.5	2151.0	2036.6	1909.9	1723.9	1525.6	1335.5	1232.6	1202.2
27.5°	2355.9	2372.3	2303.2	2187.2	2016.8	1851.4	1628.4	1385.7	1192.3	1100.2	1077.1
30°	2515.5	2499.0	2355.0	2171.5	1965.0	1748.6	1494.3	1231.8	1068.1	986.6	974.3
32.5°	2761.5	2676.8	2401.1	2135.3	1871.2	1607.0	1330.6	1121.6	987.4	892.0	875.5
35°	3188.6	3009.2	2483.4	2103.2	1757.6	1448.2	1189.9	1045.0	915.8	803.1	781.7
37.5°	3740.7	3455.2	2638.1	2048.1	1623.5	1293.5	1100.2	980.9	861.5	736.5	712.6
40°	4282.2	3921.8	2846.3	1993.0	1496.8	1188.2	1049.1	955.3	840.1	711.8	686.3
42.5°	4677.1	4295.3	3073.4	1940.3	1374.2	1105.9	1023.6	947.9	841.0	715.9	692.0
45°	4975.0	4591.6	3303.8	1867.9	1231.0	1042.6	999.8	940.5	840.1	720.0	690.4
47.5°	5237.5	4785.8	3462.6	1772.4	1095.2	993.2	971.0	912.6	819.6	702.7	677.2
50°	5422.7	4970.1	3566.3	1689.3	990.7	949.6	930.7	867.3	771.0	669.0	639.4
52.5°	5553.5	5089.4	3578.6	1668.8	911.7	911.7	882.1	816.3	723.3	620.4	591.6
55°	5690.9	5157.7	3525.1	1592.2	828.6	849.2	830.3	781.7	692.0	586.7	568.6
57.5°	5685.2	5123.1	3418.2	1279.6	735.6	757.0	764.4	751.3	680.5	594.9	577.6
60°	5723.0	5087.8	3240.4	889.5	647.6	680.5	711.8	711.8	644.3	543.1	525.0
62.5°	5703.3	5006.3	2861.1	627.0	577.6	630.3	669.8	639.4	573.5	488.0	476.4
65°	5574.9	4774.2	2146.0	532.4	553.0	601.5	637.7	590.8	523.3	441.1	432.8
67.5°	5340.4	4347.2	1141.3	497.8	542.3	581.8	601.5	550.5	483.8	400.7	391.7
69°	5041.7	3830.4	612.2	492.9	540.6	565.3	579.3	526.6	454.2	381.0	381.0
70°	4732.3	3421.5	395.8	495.4	534.0	555.4	563.7	510.2	436.9	360.4	357.1
72.5°	3707.8	2200.3	330.8	470.7	514.3	524.2	523.3	466.6	383.5	274.0	279.0
75°	2250.5	671.5	316.0	430.4	481.4	501.9	488.8	391.7	298.7	229.6	229.6
77.5°	612.2	235.3	299.5	392.5	439.4	445.2	441.1	364.5	266.6	190.1	191.7
80°	182.7	182.7	279.0	327.5	372.8	399.1	378.5	320.1	213.9	100.4	103.7
82.5°	105.3	118.5	233.7	230.4	301.2	300.3	300.3	228.8	144.8	65.8	53.5
85°	56.0	83.9	126.7	132.5	141.5	159.6	216.4	197.5	109.4	29.6	6.6
87.5°	32.1	47.7	34.6	24.7	51.8	94.6	139.9	134.1	91.3	0.8	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)