

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: P380999

Luminaire Tested: **PRV-PA2B-8540-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-8540-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15214.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 151
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: 28.75 FT

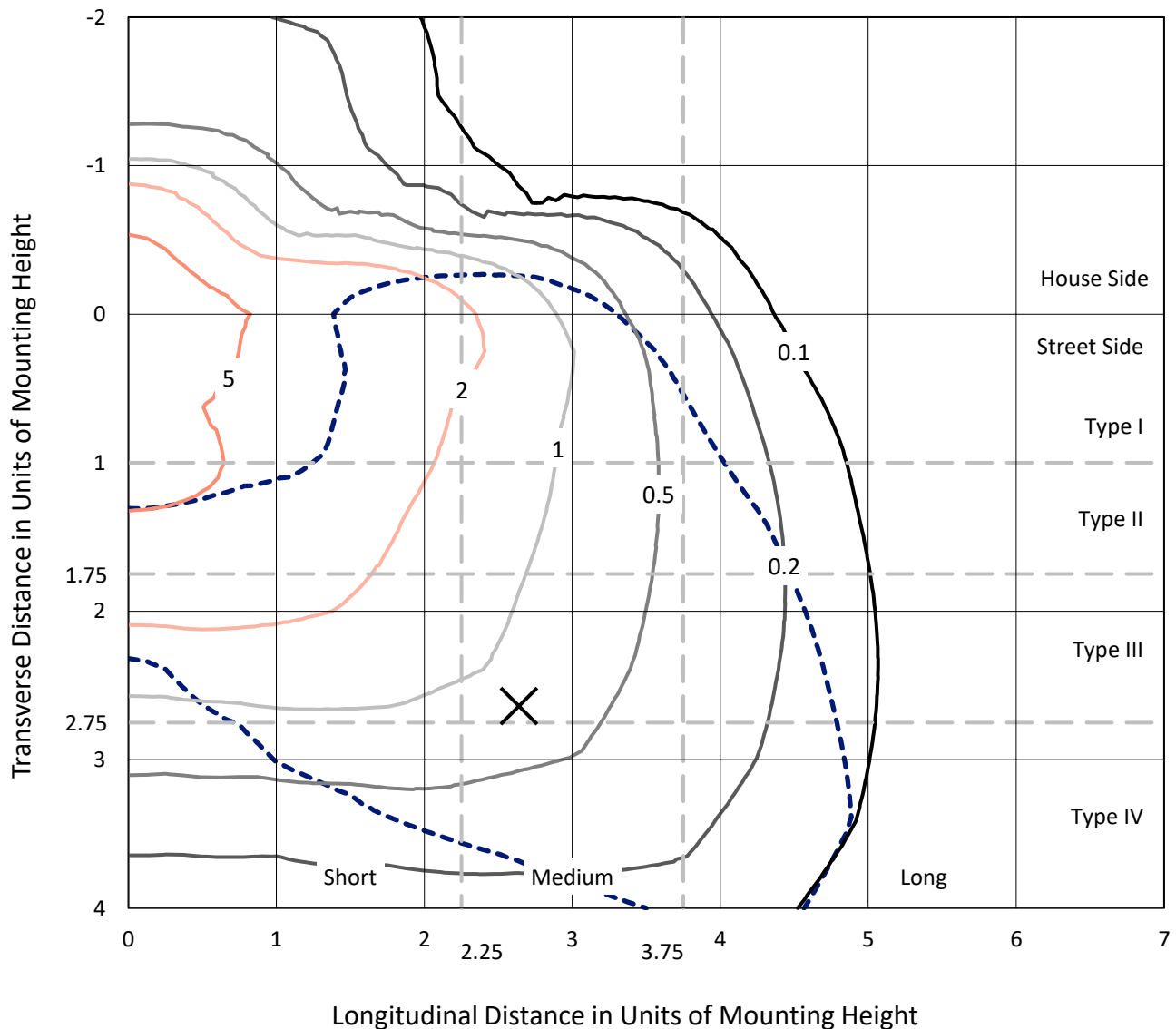


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

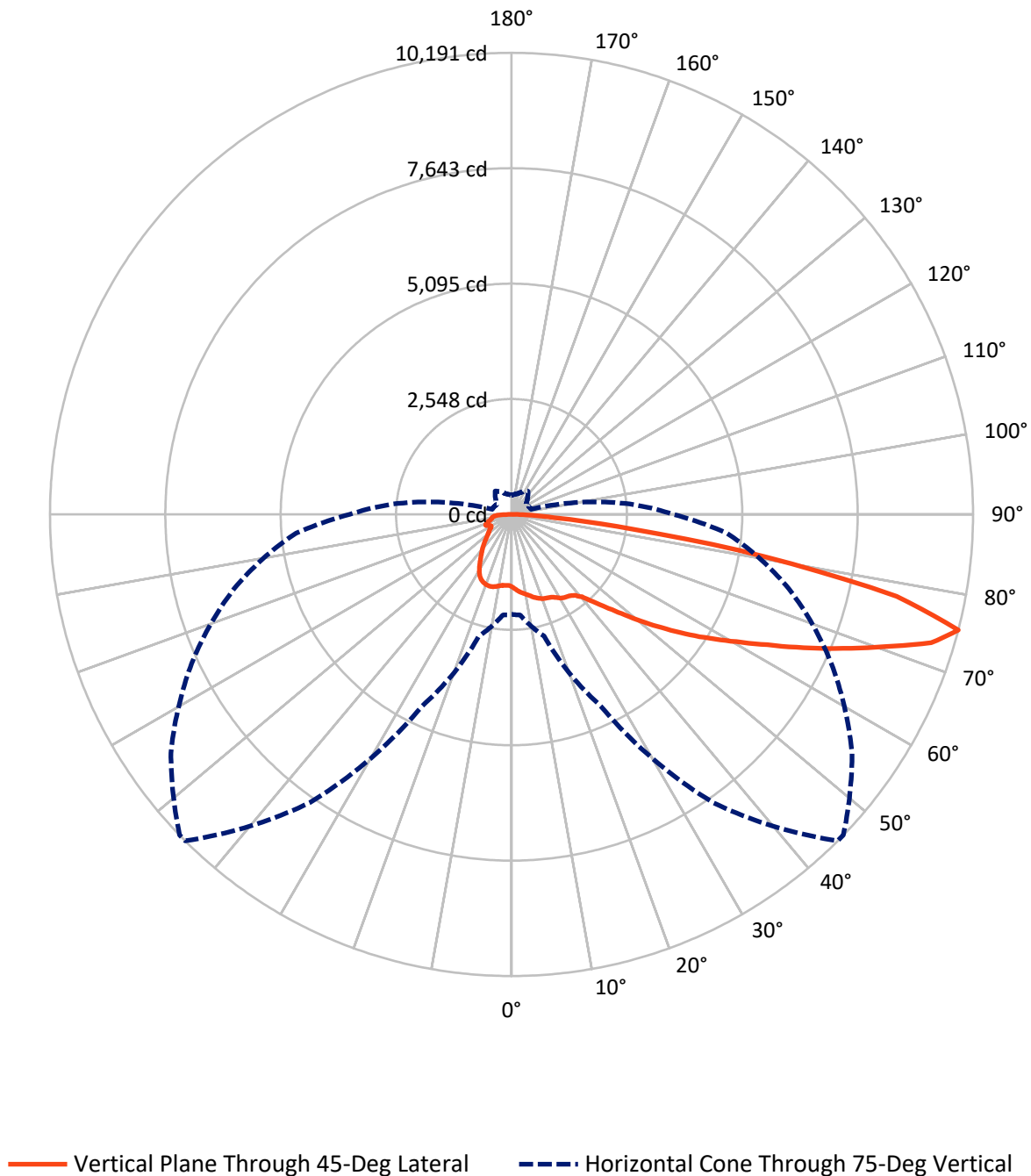


Based on 15 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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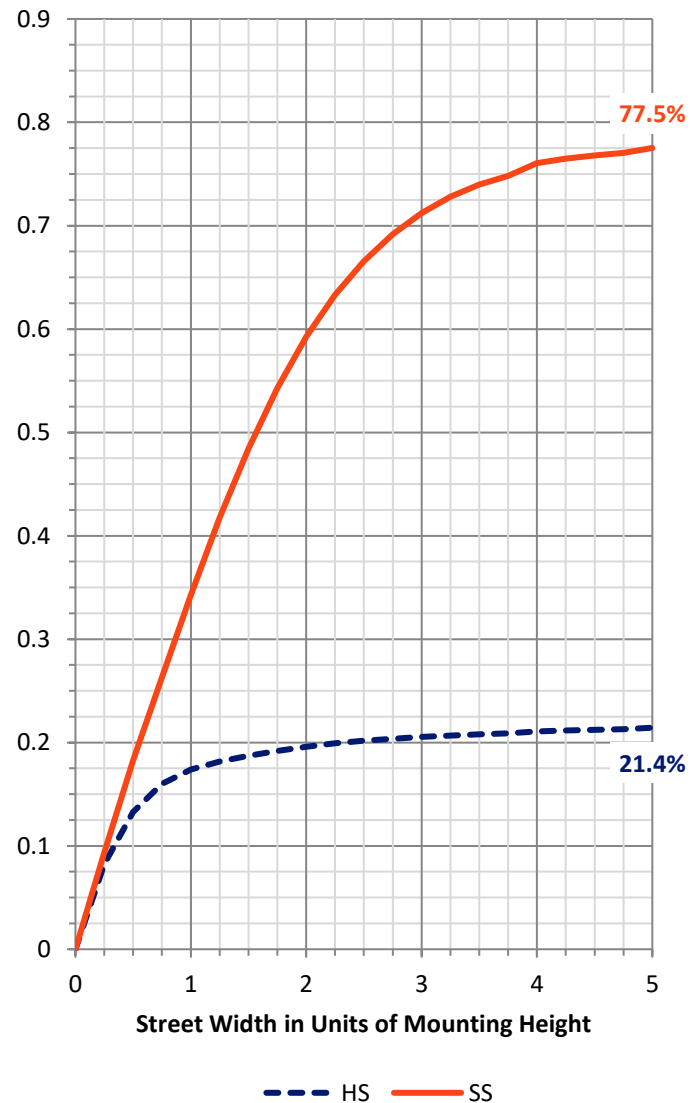
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3362.3	0.0	3362.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	11852.1	0.0	11852.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	15214.5	0.0	15214.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	1.0
10°-20°	502.9	3.3
20°-30°	857.4	5.6
30°-40°	1201.3	7.9
40°-50°	1764.8	11.6
50°-60°	2808.7	18.5
60°-70°	3995.4	26.3
70°-80°	3345.4	22.0
80°-90°	580.6	3.8
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°	15214.5	100.0
0°-180°	15214.5	100.0

Coefficient of Utilization



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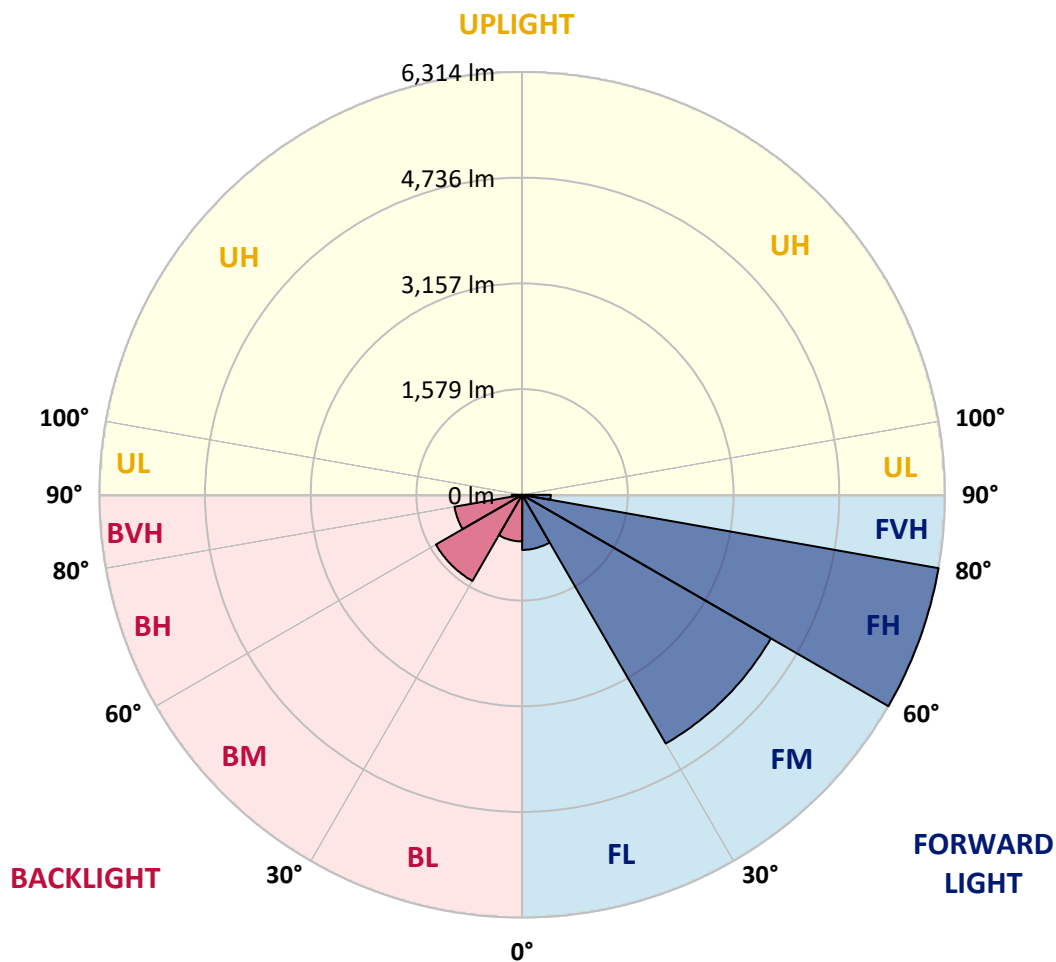
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	822.4	5.4			
FM	(30°-60°)	4288.5	28.2			
FH	(60°-80°)	6314.4	41.5			G3/7500
FVH	(80°-90°)	426.8	2.8			G3/500
BL	(0°-30°)	695.9	4.6	B2/1000		
BM	(30°-60°)	1486.3	9.8	B2/2500		
BH	(60°-80°)	1026.4	6.7	B3/2500		G3/2500
BVH	(80°-90°)	153.8	1.0			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9
2.5°	1689.3	1681.2	1677.1	1677.1	1660.9	1650.7	1648.7	1634.4	1622.2	1610.1	1599.9
5°	1786.9	1780.8	1768.6	1758.5	1736.1	1707.6	1703.6	1673.0	1642.6	1614.2	1589.7
7.5°	1876.4	1864.2	1849.9	1829.6	1793.0	1754.4	1748.3	1705.6	1662.9	1620.2	1587.7
10°	1951.5	1939.4	1919.1	1890.6	1843.8	1797.1	1791.0	1746.2	1701.5	1650.7	1604.0
12.5°	2022.7	2012.5	1982.1	1943.4	1888.5	1845.8	1839.7	1801.1	1754.4	1697.5	1636.5
15°	2083.7	2073.5	2041.0	1996.3	1933.3	1900.7	1892.6	1856.0	1809.3	1748.3	1685.3
17.5°	2114.2	2114.2	2079.6	2030.9	1971.9	1947.5	1941.4	1896.7	1854.0	1795.0	1732.0
20°	2124.4	2128.4	2104.1	2045.1	1994.3	1984.1	1978.0	1941.4	1892.6	1835.7	1776.8
22.5°	2130.5	2138.6	2118.2	2051.2	2008.5	2002.4	1998.3	1973.9	1935.3	1880.5	1821.5
25°	2150.8	2150.8	2136.6	2061.3	2026.8	2024.8	2024.8	2010.5	1984.1	1937.4	1878.4
27.5°	2181.3	2179.2	2161.0	2083.7	2067.4	2073.5	2071.5	2069.5	2051.2	2004.4	1941.4
30°	2232.1	2232.1	2211.8	2128.4	2118.2	2144.7	2146.8	2150.8	2122.3	2049.2	1998.3
32.5°	2309.4	2301.2	2280.9	2173.1	2156.9	2181.3	2185.4	2183.3	2159.0	2089.8	2065.4
35°	2547.2	2528.9	2455.7	2272.7	2191.5	2205.7	2207.7	2217.8	2221.9	2167.0	2154.9
37.5°	2964.0	2939.5	2827.7	2508.6	2301.2	2266.7	2264.7	2291.1	2313.5	2264.7	2264.7
40°	3417.3	3397.0	3331.9	2915.2	2504.5	2390.7	2382.5	2406.9	2435.4	2400.8	2411.0
42.5°	3807.6	3823.9	3830.0	3346.2	2809.5	2622.4	2600.0	2565.5	2610.2	2579.8	2620.4
45°	4100.3	4092.2	4204.0	3787.3	3203.8	2913.2	2882.6	2789.1	2846.0	2844.0	2933.4
47.5°	4411.3	4397.2	4443.9	4202.0	3653.1	3268.9	3222.1	3083.9	3169.3	3228.2	3376.6
50°	4706.1	4710.2	4726.5	4529.3	4141.0	3701.9	3642.9	3458.0	3580.0	3703.9	3913.3
52.5°	5090.4	5061.9	5041.6	4911.4	4687.8	4153.2	4114.6	3903.2	4073.9	4220.3	4498.8
55°	5425.8	5407.5	5395.3	5389.2	5145.2	4651.3	4610.6	4391.1	4637.0	4740.7	5151.4
57.5°	5783.6	5773.5	5838.4	5942.1	5844.5	5157.5	5114.8	4903.3	5177.7	5251.0	5858.8
60°	6045.9	6051.9	6230.8	6495.1	6428.0	5706.3	5655.5	5468.5	5704.3	5769.4	6566.2
62.5°	6047.8	6108.8	6523.6	6997.2	7074.5	6338.5	6279.6	6076.3	6245.1	6245.1	7200.5
65°	5470.5	5539.6	6470.7	7121.2	7729.1	7090.7	7033.8	6714.6	6777.6	6692.3	7796.2
67.5°	4895.2	4976.5	5852.7	7131.4	8188.5	7895.8	7828.7	7353.0	7245.3	7029.8	8212.9
70°	4513.1	4569.9	5301.8	6999.2	8464.9	8737.3	8686.5	7958.8	7613.2	7312.3	8125.5
72.5°	3799.5	3779.1	4478.4	6371.1	8619.4	9692.8	9650.2	8617.5	7932.3	7178.2	6930.1
75°	2205.7	2230.1	2778.9	4667.5	7769.7	10190.9	10186.8	9180.5	7792.1	6340.6	4775.3
77.5°	636.3	654.6	912.7	2051.2	4913.5	8692.6	8971.1	8395.9	6586.6	4519.1	2476.1
80°	278.5	292.8	396.4	683.1	2116.2	5677.8	5921.8	5677.8	3972.2	2073.5	971.7
82.5°	164.7	174.8	258.2	422.8	1014.4	2701.7	3031.1	2646.9	1713.8	880.2	402.5
85°	93.5	97.6	148.4	268.3	638.3	945.3	1061.2	994.1	835.5	500.1	211.4
87.5°	42.7	44.7	73.2	126.1	357.8	319.2	331.4	439.1	483.8	304.9	105.7
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°	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9
2.5°	1595.8	1589.7	1577.5	1573.4	1567.3	1569.4	1571.4	1571.4	1573.4	1567.3	1567.3
5°	1579.5	1569.4	1557.2	1557.2	1557.2	1573.4	1587.7	1595.8	1599.9	1599.9	1595.8
7.5°	1573.4	1561.2	1547.1	1551.1	1555.2	1575.5	1601.9	1628.3	1636.5	1636.5	1632.4
10°	1585.7	1573.4	1563.3	1569.4	1579.5	1595.8	1616.1	1640.5	1660.9	1662.9	1660.9
12.5°	1614.2	1599.9	1589.7	1601.9	1614.2	1624.3	1634.4	1644.6	1671.0	1675.1	1675.1
15°	1660.9	1646.6	1634.4	1644.6	1648.7	1648.7	1648.7	1648.7	1675.1	1679.1	1679.1
17.5°	1707.6	1695.4	1683.2	1685.3	1673.0	1656.8	1650.7	1648.7	1662.9	1675.1	1677.1
20°	1752.4	1742.2	1730.0	1709.7	1679.1	1648.7	1638.5	1638.5	1646.6	1665.0	1665.0
22.5°	1801.1	1788.9	1768.6	1721.9	1671.0	1628.3	1618.1	1624.3	1634.4	1658.9	1656.8
25°	1856.0	1839.7	1805.2	1717.8	1644.6	1593.8	1595.8	1614.2	1632.4	1658.9	1658.9
27.5°	1917.0	1894.6	1825.6	1685.3	1585.7	1536.9	1555.2	1597.9	1624.3	1652.8	1656.8
30°	1984.1	1963.8	1841.8	1628.3	1490.1	1445.4	1490.1	1559.3	1599.9	1626.3	1632.4
32.5°	2065.4	2049.2	1856.0	1555.2	1366.1	1327.5	1392.6	1477.9	1543.0	1573.4	1579.5
35°	2167.0	2150.8	1874.3	1471.8	1250.2	1209.6	1268.5	1355.9	1441.3	1479.9	1492.2
37.5°	2299.2	2274.8	1890.6	1382.4	1152.7	1105.9	1134.3	1213.6	1290.9	1343.7	1358.0
40°	2467.9	2429.3	1904.8	1280.8	1067.2	1014.4	1024.6	1063.2	1107.9	1154.7	1173.0
42.5°	2705.8	2628.5	1906.8	1173.0	979.8	931.1	927.0	939.2	939.2	939.2	945.3
45°	3037.2	2890.8	1910.9	1071.3	890.4	839.6	827.4	823.3	792.9	733.9	729.8
47.5°	3455.9	3234.3	1929.2	986.0	796.9	752.1	735.9	719.7	662.7	601.7	589.5
50°	3992.6	3632.8	1965.8	904.6	717.6	687.1	666.8	628.2	565.2	518.4	506.2
52.5°	4610.6	4106.4	2000.3	819.3	658.7	638.3	614.0	567.2	500.1	471.6	467.5
55°	5320.1	4635.0	2069.5	744.0	607.8	593.6	571.3	526.5	475.7	455.4	453.4
57.5°	6045.9	5226.5	2167.0	677.0	559.1	550.9	550.9	512.3	479.7	471.6	471.6
60°	6745.2	5734.8	2091.9	614.0	514.4	518.4	557.0	546.8	522.4	532.6	538.7
62.5°	7287.9	6033.6	1697.5	563.1	481.8	518.4	618.0	618.0	589.5	585.4	585.4
65°	7519.7	6029.6	1193.3	524.5	469.6	569.2	689.1	656.6	581.4	553.0	546.8
67.5°	7460.7	5765.3	823.3	498.1	465.5	622.1	721.7	630.2	544.8	520.4	502.1
70°	6942.3	5206.2	634.2	473.6	459.5	599.7	711.5	599.7	516.4	494.0	477.7
72.5°	5600.6	4175.6	526.5	449.3	435.0	555.0	677.0	571.3	494.0	469.6	453.4
75°	3571.8	2626.5	445.2	416.7	388.3	498.1	630.2	542.8	469.6	437.1	424.9
77.5°	1717.8	1132.3	388.3	378.1	349.7	461.5	583.4	506.2	437.1	410.6	402.5
80°	695.2	518.4	337.5	339.5	321.2	439.1	550.9	471.6	404.6	376.1	361.8
82.5°	361.8	300.9	284.6	292.8	292.8	418.7	526.5	443.2	376.1	363.9	317.1
85°	195.1	187.1	219.6	235.8	254.1	378.1	489.9	412.6	343.6	294.8	284.6
87.5°	95.5	122.0	124.0	142.3	176.9	302.9	412.6	345.6	286.7	237.9	233.8
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)