

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: P380936

Luminaire Tested: **PRV-XL-PA3A-8540-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3A-8540-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19278.2 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 172
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

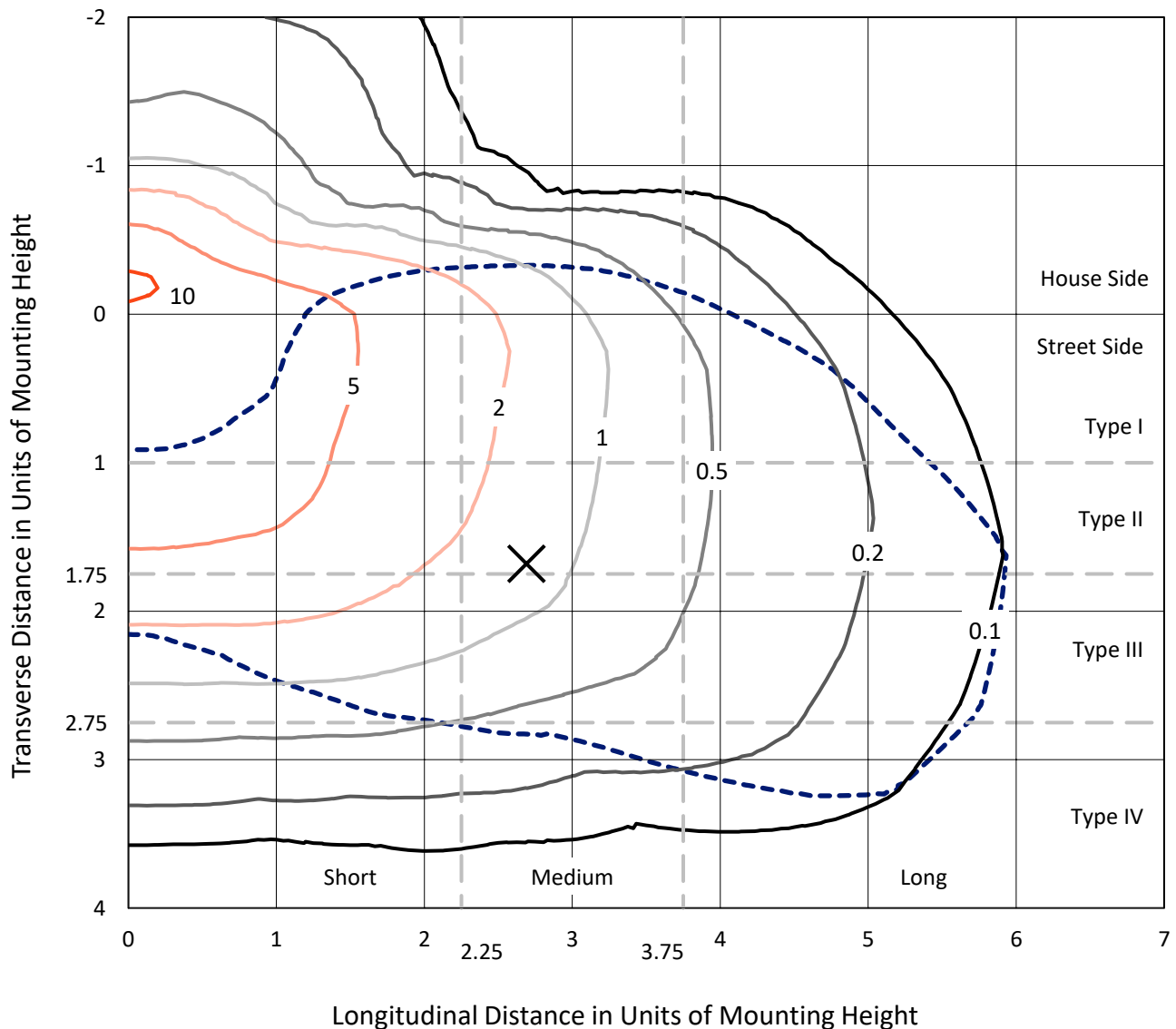


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

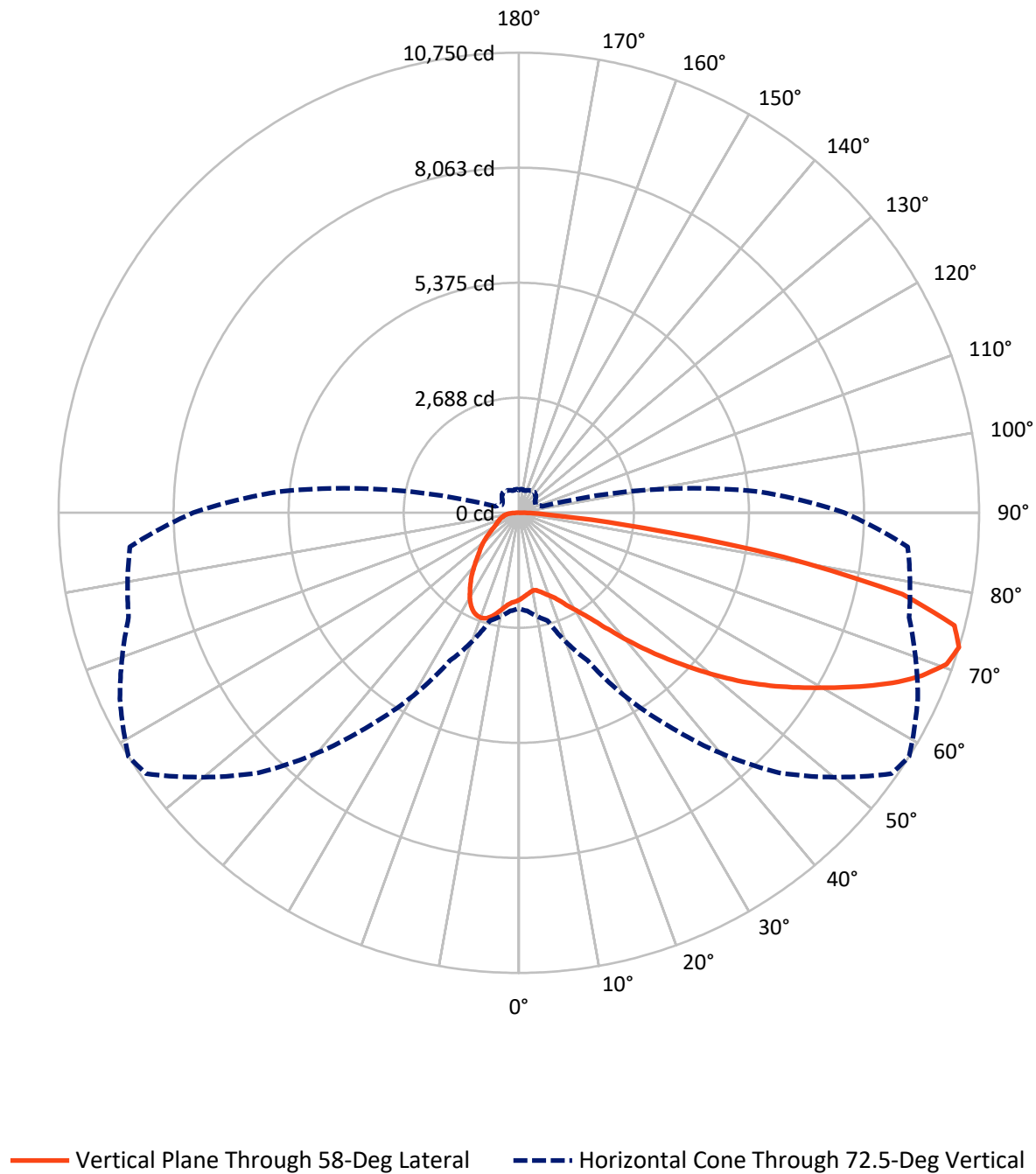


Based on 15 foot mounting height. Maximum calculated value = 10.5 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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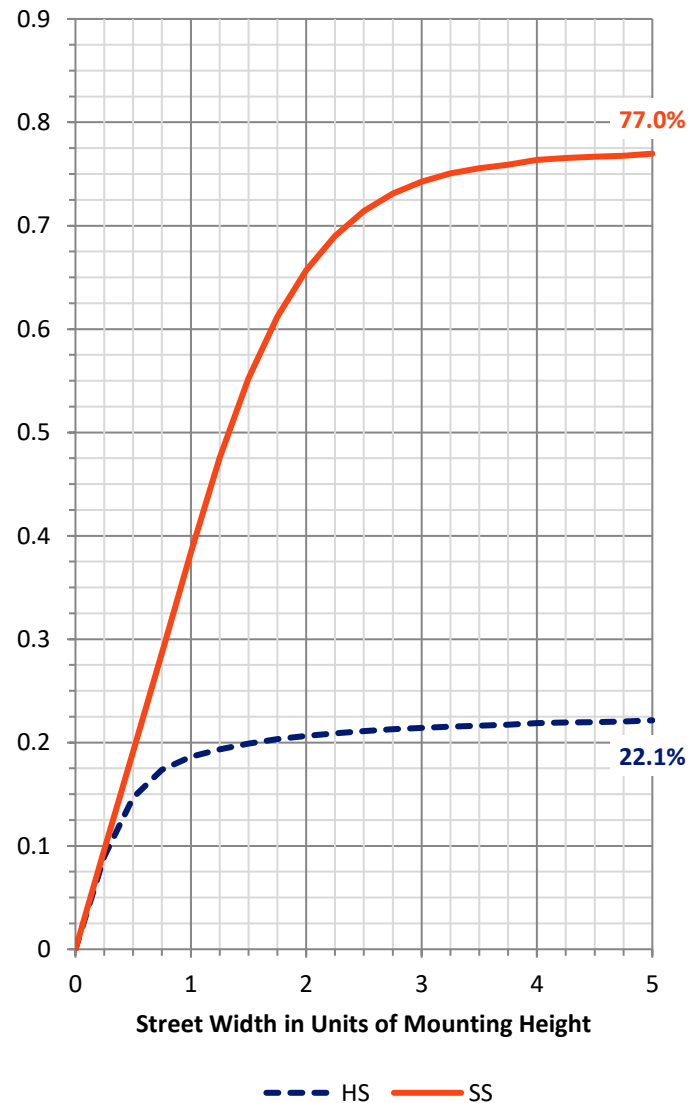
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4372.1	0.0	4372.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	14906.2	0.0	14906.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	19278.2	0.0	19278.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	1.0
10°-20°	622.1	3.2
20°-30°	1114.4	5.8
30°-40°	1676.3	8.7
40°-50°	2714.5	14.1
50°-60°	4086.2	21.2
60°-70°	4809.1	24.9
70°-80°	3410.0	17.7
80°-90°	649.8	3.4
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°	19278.2	100.0
0°-180°	19278.2	100.0

Coefficient of Utilization



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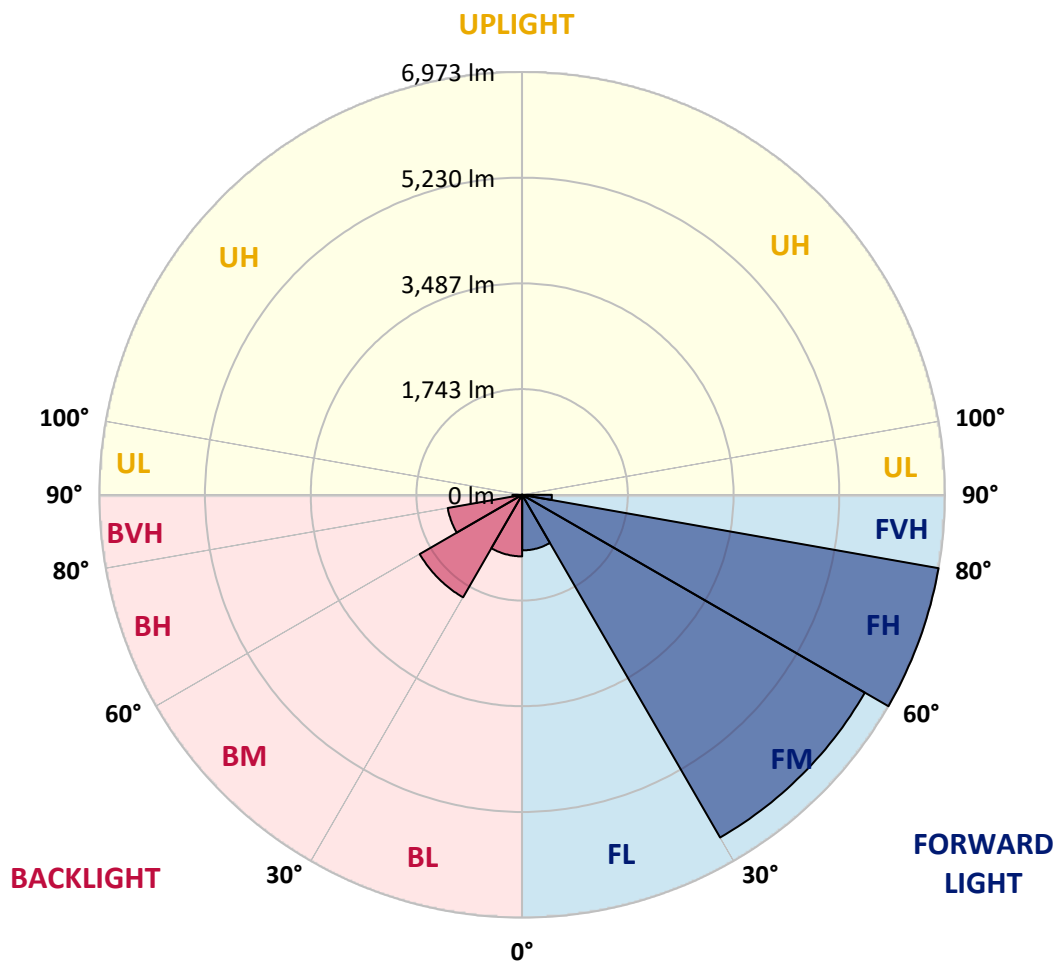
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	916.8	4.8			
FM	(30°-60°)	6526.2	33.9			
FH	(60°-80°)	6973.0	36.2			G3/7500
FVH	(80°-90°)	490.1	2.5			G3/500
BL	(0°-30°)	1015.6	5.3	B3/2500		
BM	(30°-60°)	1950.8	10.1	B2/2500		
BH	(60°-80°)	1246.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	159.6	0.8			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°	55°	58°	65°	75°	85°
0°	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5
2.5°	1957.1	1946.9	1949.4	1949.4	1959.6	1964.7	1967.3	1974.9	1980.0	1992.7	2010.5
5°	1865.5	1857.8	1860.4	1862.9	1880.8	1898.5	1913.8	1924.0	1939.3	1959.6	1985.1
7.5°	1799.3	1794.2	1796.8	1801.8	1817.1	1837.5	1862.9	1878.2	1901.1	1939.3	1982.6
10°	1750.9	1750.9	1753.5	1763.7	1779.0	1804.4	1824.8	1842.6	1888.4	1957.1	2023.3
12.5°	1712.8	1712.8	1720.4	1740.8	1766.2	1791.7	1840.0	1860.4	1921.5	2015.6	2094.5
15°	1710.2	1712.8	1715.3	1733.2	1761.1	1817.1	1888.4	1918.9	1992.7	2104.7	2196.3
17.5°	1750.9	1753.5	1743.3	1748.4	1781.5	1860.4	1954.5	1990.2	2084.3	2206.5	2300.7
20°	1875.7	1875.7	1845.1	1817.1	1840.0	1926.6	2033.5	2069.1	2173.5	2308.3	2402.5
22.5°	2130.2	2142.9	2071.6	2010.5	1974.9	2023.3	2120.0	2158.2	2275.2	2420.3	2514.4
25°	2438.1	2450.8	2354.1	2267.6	2201.4	2193.8	2257.4	2298.1	2394.8	2545.0	2623.9
27.5°	2735.9	2712.9	2623.9	2542.5	2458.5	2389.7	2438.1	2473.7	2585.7	2700.3	2748.6
30°	2970.0	2952.2	2865.6	2807.1	2728.2	2639.2	2611.1	2649.4	2741.0	2847.8	2873.3
32.5°	3229.6	3216.9	3130.4	3054.0	2987.8	2903.8	2842.8	2860.5	2911.4	2987.8	3003.1
35°	3560.5	3588.4	3496.8	3341.5	3267.8	3186.3	3143.0	3148.1	3186.3	3234.7	3209.2
37.5°	3909.1	3942.2	3947.3	3703.0	3603.7	3529.9	3484.1	3501.9	3547.7	3580.8	3501.9
40°	4555.5	4522.5	4390.1	4209.4	4056.7	3985.5	3921.8	3919.3	3952.3	4010.9	3868.4
42.5°	5413.2	5382.7	5115.4	4881.3	4639.5	4558.1	4433.3	4379.9	4395.2	4469.0	4270.5
45°	6235.2	6222.5	6008.7	5736.4	5446.2	5288.5	5003.4	4873.6	4860.9	4919.4	4682.8
47.5°	6965.6	6909.7	6754.4	6543.1	6512.6	6100.4	5576.1	5400.4	5339.4	5372.5	5107.8
50°	7746.9	7556.0	7342.3	7212.5	7433.9	7049.6	6153.8	5970.5	5820.4	5843.3	5568.5
52.5°	8161.8	7841.1	7701.1	7739.3	8037.1	7889.4	6782.4	6558.4	6316.7	6349.7	6026.5
55°	7805.5	7802.9	7864.0	8100.7	8515.5	8345.0	7380.5	7128.5	6863.9	6871.5	6553.3
57.5°	7316.8	7416.1	7731.7	8253.4	9108.5	8823.5	7968.4	7701.1	7459.3	7421.2	7151.5
60°	6871.5	6980.9	7439.0	8227.9	9314.6	9261.2	8528.3	8294.1	8098.2	7986.2	7780.0
62.5°	6194.5	6275.9	6924.9	8065.1	9141.6	9576.8	9095.8	8935.4	8787.8	8556.2	8457.0
65°	5397.9	5425.9	6110.5	7528.1	8925.3	9698.9	9660.8	9589.5	9447.0	9106.0	9126.3
67.5°	4535.1	4591.1	5191.8	6670.4	8451.9	9643.0	10098.5	10157.1	9989.0	9477.5	9553.9
70°	3616.4	3685.1	4140.7	5484.4	7647.7	9401.2	10503.2	10597.4	10274.1	9599.7	9632.8
72.5°	2237.0	2303.2	2608.6	3809.8	6062.1	8589.4	10627.9	10750.0	10281.7	9436.8	9118.7
75°	773.7	781.3	1020.6	1827.3	3598.6	6484.6	10220.7	10508.3	9958.5	8843.8	7935.2
77.5°	353.8	366.4	453.0	753.3	1595.7	3499.4	8439.2	9159.4	8976.2	7917.5	6107.9
80°	244.3	249.4	313.0	450.5	921.3	1231.7	5326.7	6265.7	6586.4	6130.9	3914.2
82.5°	183.2	188.3	241.8	305.4	664.2	598.1	2028.4	2911.4	3618.9	3552.8	1636.4
85°	175.6	173.0	188.3	203.6	442.9	356.3	656.6	900.9	1412.5	1208.9	412.2
87.5°	76.3	84.0	193.4	114.6	231.6	165.4	285.0	333.4	430.1	374.1	147.6
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°	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5
2.5°	2018.2	2023.3	2038.5	2061.4	2074.2	2099.6	2117.5	2127.6	2135.2	2137.8	2137.8
5°	2000.3	2010.5	2043.6	2081.8	2117.5	2170.9	2219.3	2247.2	2267.6	2275.2	2277.7
7.5°	2005.4	2030.9	2079.3	2135.2	2181.0	2249.8	2308.3	2364.3	2410.1	2427.9	2427.9
10°	2053.8	2089.4	2155.6	2229.4	2287.9	2359.2	2420.3	2468.6	2522.1	2552.7	2557.7
12.5°	2127.6	2170.9	2257.4	2338.8	2405.0	2461.0	2517.0	2552.7	2578.1	2601.0	2606.1
15°	2231.9	2285.4	2371.9	2455.9	2514.4	2550.1	2565.3	2565.3	2562.8	2565.3	2570.4
17.5°	2336.3	2387.2	2473.7	2557.7	2585.7	2565.3	2547.6	2542.5	2539.9	2534.8	2537.4
20°	2438.1	2486.4	2560.3	2623.9	2601.0	2529.7	2506.8	2504.3	2496.6	2491.5	2486.4
22.5°	2539.9	2575.5	2636.6	2659.5	2567.9	2466.1	2438.1	2422.8	2412.7	2399.9	2387.2
25°	2657.0	2667.1	2712.9	2677.3	2486.4	2349.0	2308.3	2285.4	2275.2	2262.5	2252.3
27.5°	2766.4	2766.4	2774.0	2649.4	2366.9	2193.8	2132.7	2091.9	2089.4	2086.9	2084.3
30°	2865.6	2852.9	2827.5	2565.3	2211.6	2002.9	1911.3	1870.6	1885.9	1898.5	1901.1
32.5°	2982.8	2957.3	2886.0	2450.8	2025.8	1789.2	1677.1	1659.3	1677.1	1692.5	1682.3
35°	3166.0	3120.2	2947.1	2318.5	1847.6	1593.2	1486.3	1460.8	1455.8	1453.2	1432.8
37.5°	3428.1	3349.2	2995.4	2176.0	1672.0	1420.1	1341.2	1287.8	1239.4	1188.5	1180.8
40°	3748.8	3613.9	3028.6	2013.1	1486.3	1275.0	1191.0	1122.4	1040.9	951.8	941.6
42.5°	4099.9	3898.9	3043.8	1832.4	1323.4	1155.4	1051.1	964.6	873.0	804.2	791.5
45°	4479.2	4206.9	3031.1	1659.3	1191.0	1053.6	936.5	842.4	768.6	720.2	710.0
47.5°	4848.2	4560.6	2995.4	1521.9	1089.2	967.1	847.5	760.9	704.9	651.5	638.8
50°	5321.6	4899.1	2952.2	1415.0	977.3	880.6	791.5	699.8	636.3	610.8	605.7
52.5°	5845.8	5237.6	2901.2	1280.1	867.9	811.8	755.8	674.4	654.0	605.7	598.1
55°	6413.4	5639.7	2891.1	1109.6	771.1	763.5	720.2	697.3	702.4	605.7	593.0
57.5°	7011.5	6069.8	2914.0	939.1	692.3	720.2	735.5	717.7	710.0	618.4	593.0
60°	7635.0	6484.6	2845.3	781.3	631.2	684.6	753.3	707.5	651.5	613.3	595.5
62.5°	8240.7	6833.3	2547.6	669.3	585.4	674.4	743.1	669.3	605.7	605.7	598.1
65°	8681.0	6988.5	1992.7	587.9	554.8	661.7	725.3	643.9	593.0	610.8	600.6
67.5°	8731.9	6828.2	1338.7	524.3	529.4	638.8	684.6	621.0	580.3	626.1	610.8
70°	8418.8	6410.8	819.5	475.9	496.3	598.1	649.0	598.1	562.4	613.3	590.5
72.5°	7607.0	5632.0	577.7	435.2	460.6	559.9	615.9	577.7	537.0	554.8	531.9
75°	6240.3	4364.7	458.1	397.0	425.0	524.3	587.9	547.2	506.4	498.8	483.6
77.5°	4420.7	2797.0	369.0	366.4	386.8	481.0	549.7	511.5	470.8	455.5	445.4
80°	2542.5	1371.7	318.1	330.8	351.2	437.8	503.9	470.8	432.7	409.7	394.5
82.5°	972.2	478.5	279.9	287.6	310.5	391.9	458.1	430.1	391.9	412.2	346.1
85°	315.5	262.1	229.0	236.7	259.6	325.7	404.7	381.7	338.5	300.3	277.4
87.5°	140.0	142.5	122.1	134.9	162.9	216.3	295.2	279.9	246.9	206.2	198.5
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)