

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: P381000

Luminaire Tested: **PRV-XL-PA3A-8540-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381000
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-XL-PA3A-8540-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19046.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

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

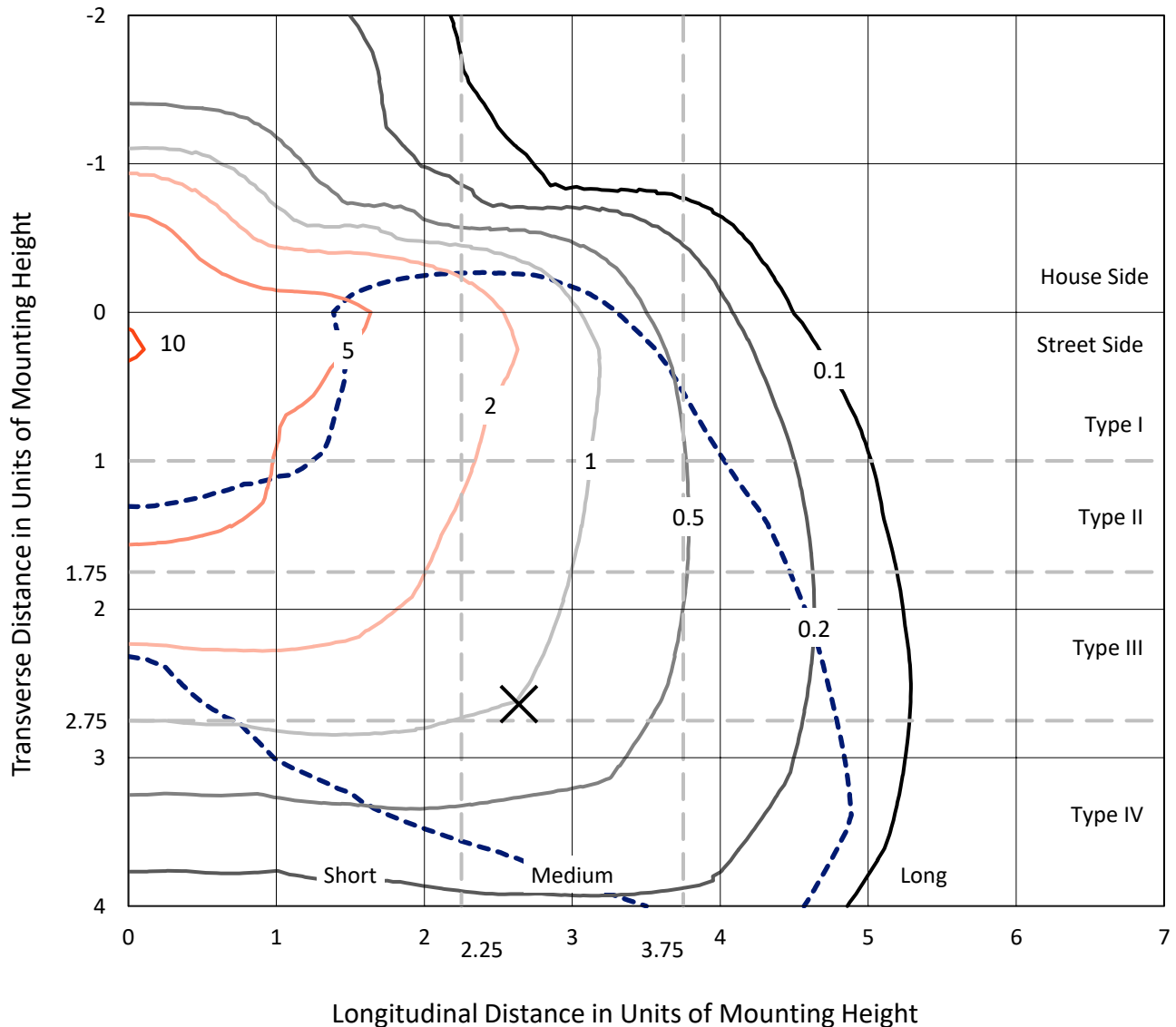


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

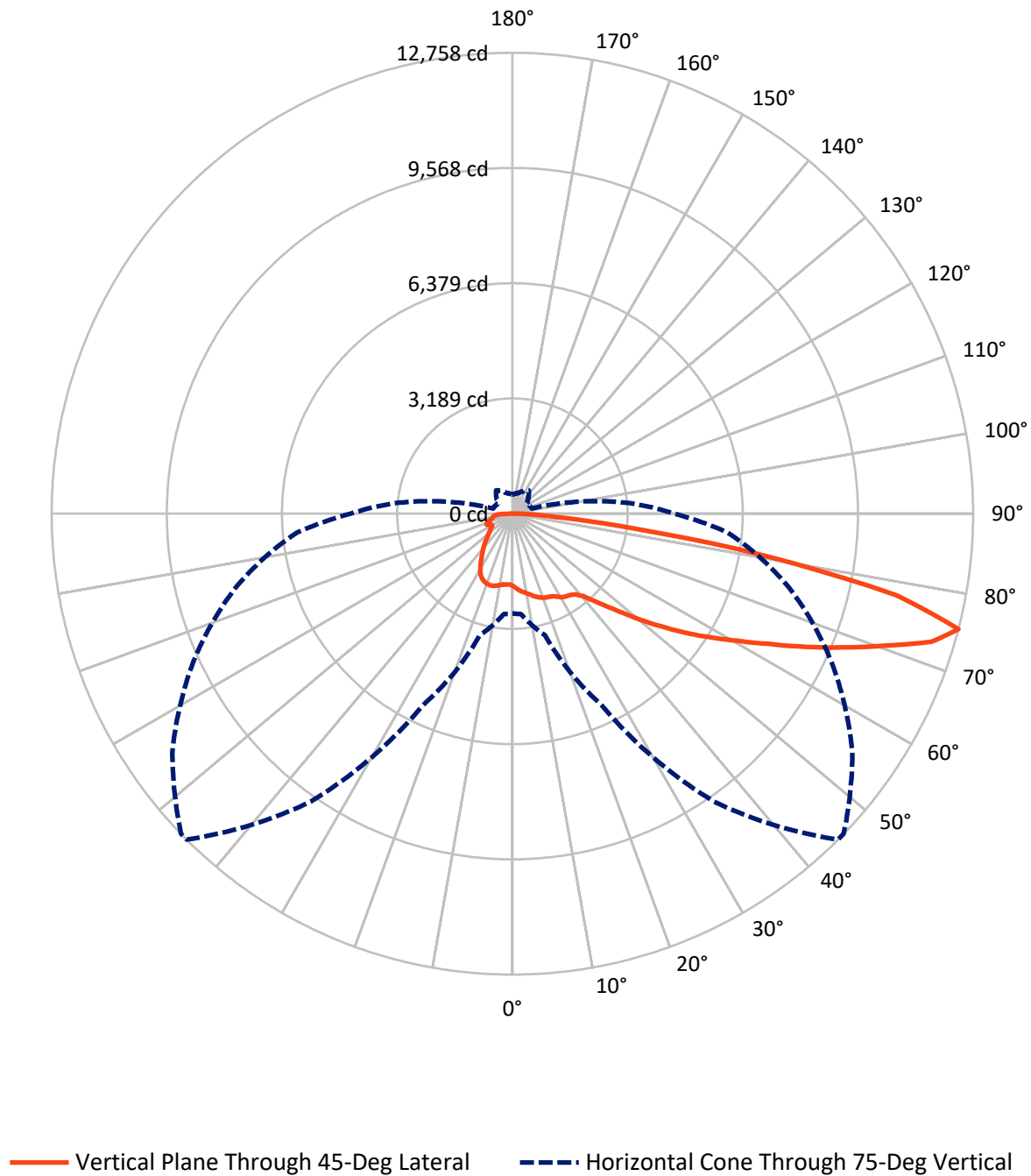


Based on 15 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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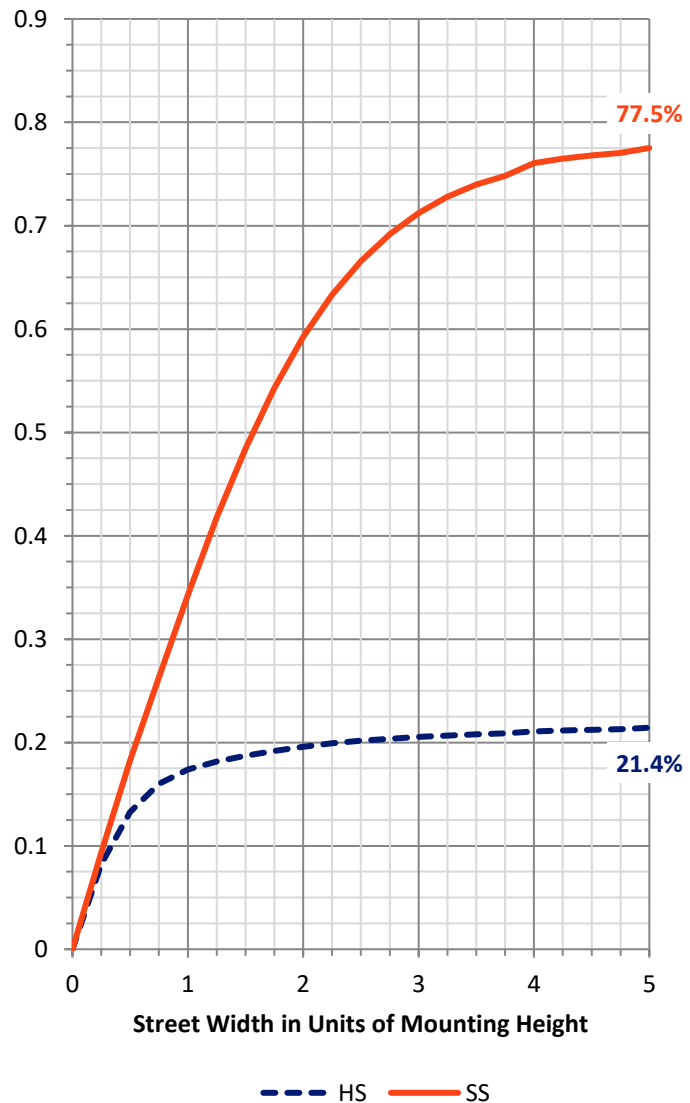
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4209.2	0.0	4209.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	14837.3	0.0	14837.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	19046.5	0.0	19046.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.0
10°-20°	629.6	3.3
20°-30°	1073.3	5.6
30°-40°	1503.8	7.9
40°-50°	2209.3	11.6
50°-60°	3516.2	18.5
60°-70°	5001.7	26.3
70°-80°	4187.9	22.0
80°-90°	726.8	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°	19046.5	100.0
0°-180°	19046.5	100.0

Coefficient of Utilization



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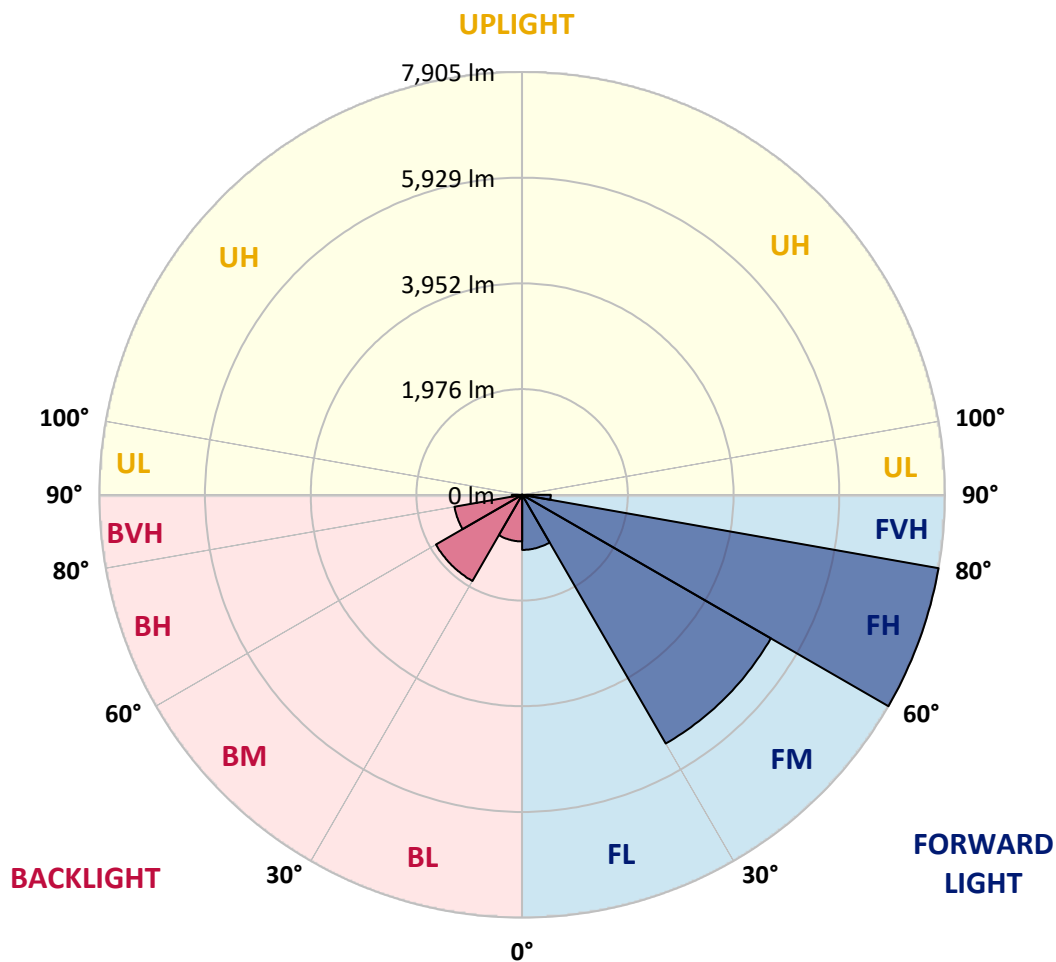
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1029.6	5.4			
FM	(30°-60°)	5368.6	28.2			
FH	(60°-80°)	7904.8	41.5			G4/12000
FVH	(80°-90°)	534.3	2.8			G4/750
BL	(0°-30°)	871.1	4.6	B2/1000		
BM	(30°-60°)	1860.7	9.8	B2/2500		
BH	(60°-80°)	1284.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	192.5	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2114.8	2104.6	2099.5	2099.5	2079.2	2066.5	2063.9	2046.1	2030.9	2015.6	2002.8
5°	2237.0	2229.4	2214.1	2201.3	2173.4	2137.7	2132.7	2094.4	2056.3	2020.7	1990.2
7.5°	2348.9	2333.7	2315.9	2290.4	2244.6	2196.2	2188.6	2135.2	2081.8	2028.3	1987.6
10°	2443.1	2427.8	2402.4	2366.8	2308.2	2249.7	2242.0	2186.1	2130.1	2066.5	2007.9
12.5°	2532.1	2519.5	2481.2	2432.9	2364.2	2310.8	2303.1	2254.8	2196.2	2125.0	2048.6
15°	2608.6	2595.8	2555.1	2499.1	2420.2	2379.5	2369.3	2323.5	2265.0	2188.6	2109.7
17.5°	2646.7	2646.7	2603.5	2542.3	2468.6	2438.0	2430.4	2374.4	2321.0	2247.1	2168.3
20°	2659.5	2664.5	2634.0	2560.2	2496.5	2483.8	2476.2	2430.4	2369.3	2298.0	2224.3
22.5°	2667.1	2677.2	2651.8	2567.8	2514.4	2506.7	2501.6	2471.1	2422.8	2354.0	2280.3
25°	2692.5	2692.5	2674.7	2580.5	2537.2	2534.7	2534.7	2516.9	2483.8	2425.3	2351.5
27.5°	2730.7	2728.1	2705.3	2608.6	2588.2	2595.8	2593.3	2590.7	2567.8	2509.3	2430.4
30°	2794.3	2794.3	2768.8	2664.5	2651.8	2684.9	2687.4	2692.5	2656.9	2565.3	2501.6
32.5°	2891.0	2880.8	2855.4	2720.5	2700.2	2730.7	2735.8	2733.2	2702.7	2616.2	2585.6
35°	3188.8	3165.8	3074.2	2845.2	2743.4	2761.2	2763.8	2776.5	2781.6	2712.9	2697.6
37.5°	3710.5	3679.9	3539.9	3140.4	2880.8	2837.6	2835.0	2868.1	2896.1	2835.0	2835.0
40°	4278.0	4252.6	4171.1	3649.4	3135.3	2992.8	2982.6	3013.1	3048.8	3005.5	3018.2
42.5°	4766.6	4786.9	4794.6	4188.9	3517.1	3283.0	3254.9	3211.7	3267.7	3229.5	3280.4
45°	5133.1	5122.9	5262.9	4741.1	4010.8	3646.8	3608.7	3491.6	3562.9	3560.3	3672.3
47.5°	5522.4	5504.6	5563.1	5260.4	4573.2	4092.2	4033.7	3860.7	3967.5	4041.3	4227.1
50°	5891.4	5896.5	5916.9	5670.0	5184.0	4634.3	4560.5	4328.9	4481.6	4636.8	4898.9
52.5°	6372.4	6336.8	6311.4	6148.5	5868.6	5199.3	5150.9	4886.2	5100.0	5283.2	5631.9
55°	6792.4	6769.4	6754.2	6746.6	6441.2	5822.8	5771.9	5497.0	5804.9	5934.7	6448.8
57.5°	7240.2	7227.6	7309.0	7438.7	7316.6	6456.5	6403.0	6138.3	6481.9	6573.5	7334.4
60°	7568.6	7576.2	7800.2	8131.0	8047.0	7143.5	7080.0	6845.8	7141.0	7222.5	8220.0
62.5°	7571.1	7647.5	8166.6	8759.6	8856.3	7935.0	7861.2	7606.7	7817.9	7817.9	9014.1
65°	6848.4	6934.9	8100.4	8914.8	9675.8	8876.6	8805.4	8405.8	8484.7	8377.9	9759.7
67.5°	6128.1	6229.9	7326.8	8927.5	10250.9	9884.4	9800.4	9204.9	9070.0	8800.3	10281.4
70°	5649.7	5720.9	6637.1	8762.1	10597.0	10938.0	10874.4	9963.3	9530.7	9154.1	10172.0
72.5°	4756.4	4731.0	5606.4	7975.7	10790.4	12134.2	12080.7	10787.9	9930.2	8986.1	8675.6
75°	2761.2	2791.8	3478.9	5843.1	9726.7	12757.7	12752.6	11492.8	9754.6	7937.6	5978.0
77.5°	796.5	819.5	1142.6	2567.8	6151.0	10882.1	11230.6	10510.4	8245.5	5657.3	3099.7
80°	348.7	366.4	496.3	855.1	2649.3	7107.9	7413.3	7107.9	4972.8	2595.8	1216.5
82.5°	206.2	218.8	323.2	529.3	1269.9	3382.2	3794.4	3313.5	2145.3	1101.9	503.9
85°	117.1	122.1	185.8	335.9	799.1	1183.3	1328.4	1244.4	1045.9	626.0	264.7
87.5°	53.5	56.0	91.6	157.8	447.9	399.6	414.8	549.7	605.7	381.7	132.3
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°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	1997.7	1990.2	1974.9	1969.8	1962.1	1964.7	1967.2	1967.2	1969.8	1962.1	1962.1
5°	1977.4	1964.7	1949.4	1949.4	1949.4	1969.8	1987.6	1997.7	2002.8	2002.8	1997.7
7.5°	1969.8	1954.5	1936.7	1941.8	1946.9	1972.3	2005.4	2038.5	2048.6	2048.6	2043.6
10°	1985.1	1969.8	1957.0	1964.7	1977.4	1997.7	2023.2	2053.7	2079.2	2081.8	2079.2
12.5°	2020.7	2002.8	1990.2	2005.4	2020.7	2033.4	2046.1	2058.8	2091.9	2097.0	2097.0
15°	2079.2	2061.4	2046.1	2058.8	2063.9	2063.9	2063.9	2063.9	2097.0	2102.1	2102.1
17.5°	2137.7	2122.5	2107.2	2109.7	2094.4	2074.1	2066.5	2063.9	2081.8	2097.0	2099.5
20°	2193.7	2181.0	2165.7	2140.3	2102.1	2063.9	2051.2	2051.2	2061.4	2084.3	2084.3
22.5°	2254.8	2239.5	2214.1	2155.5	2091.9	2038.5	2025.8	2033.4	2046.1	2076.7	2074.1
25°	2323.5	2303.1	2259.9	2150.4	2058.8	1995.2	1997.7	2020.7	2043.6	2076.7	2076.7
27.5°	2399.8	2371.9	2285.3	2109.7	1985.1	1924.0	1946.9	2000.3	2033.4	2069.0	2074.1
30°	2483.8	2458.4	2305.7	2038.5	1865.4	1809.4	1865.4	1951.9	2002.8	2036.0	2043.6
32.5°	2585.6	2565.3	2323.5	1946.9	1710.2	1661.8	1743.3	1850.2	1931.6	1969.8	1977.4
35°	2712.9	2692.5	2346.4	1842.5	1565.1	1514.2	1588.0	1697.5	1804.3	1852.7	1867.9
37.5°	2878.3	2847.8	2366.8	1730.5	1443.0	1384.4	1420.0	1519.3	1616.0	1682.2	1700.0
40°	3089.5	3041.2	2384.5	1603.3	1336.1	1269.9	1282.6	1331.0	1387.0	1445.5	1468.4
42.5°	3387.3	3290.6	2387.1	1468.4	1226.6	1165.6	1160.5	1175.8	1175.8	1175.8	1183.3
45°	3802.1	3618.9	2392.2	1341.2	1114.7	1051.0	1035.8	1030.7	992.5	918.7	913.6
47.5°	4326.3	4049.0	2415.1	1234.2	997.6	941.6	921.3	900.9	829.7	753.3	738.1
50°	4998.2	4547.7	2460.9	1132.5	898.3	860.2	834.8	786.4	707.5	649.0	633.7
52.5°	5771.9	5140.7	2504.2	1025.6	824.6	799.1	768.6	710.0	626.0	590.4	585.3
55°	6660.0	5802.4	2590.7	931.5	760.9	743.1	715.1	659.1	595.5	570.0	567.5
57.5°	7568.6	6543.0	2712.9	847.4	699.8	689.7	689.7	641.4	600.6	590.4	590.4
60°	8444.0	7179.2	2618.7	768.6	643.9	649.0	697.3	684.6	654.0	666.8	674.4
62.5°	9123.5	7553.3	2125.0	704.9	603.1	649.0	773.7	773.7	738.1	733.0	733.0
65°	9413.6	7548.2	1493.9	656.6	587.9	712.6	862.7	822.0	727.9	692.3	684.6
67.5°	9339.8	7217.4	1030.7	623.5	582.8	778.8	903.4	789.0	682.1	651.5	628.6
70°	8690.8	6517.5	794.0	593.0	575.1	750.7	890.7	750.7	646.4	618.4	598.1
72.5°	7011.2	5227.2	659.1	562.4	544.6	694.8	847.4	715.1	618.4	587.9	567.5
75°	4471.4	3288.1	557.3	521.7	486.1	623.5	789.0	679.5	587.9	547.2	531.9
77.5°	2150.4	1417.5	486.1	473.3	437.7	577.7	730.4	633.7	547.2	514.0	503.9
80°	870.4	649.0	422.4	425.0	402.1	549.7	689.7	590.4	506.4	470.8	453.0
82.5°	453.0	376.6	356.3	366.4	366.4	524.2	659.1	554.8	470.8	455.5	397.0
85°	244.3	234.1	274.8	295.2	318.1	473.3	613.3	516.6	430.1	369.0	356.3
87.5°	119.6	152.7	155.3	178.1	221.4	379.2	516.6	432.6	358.8	297.8	292.7
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)