

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: P381321

Luminaire Tested: **PRV-XL-PA3B-8540-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-8540-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17103 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 234
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

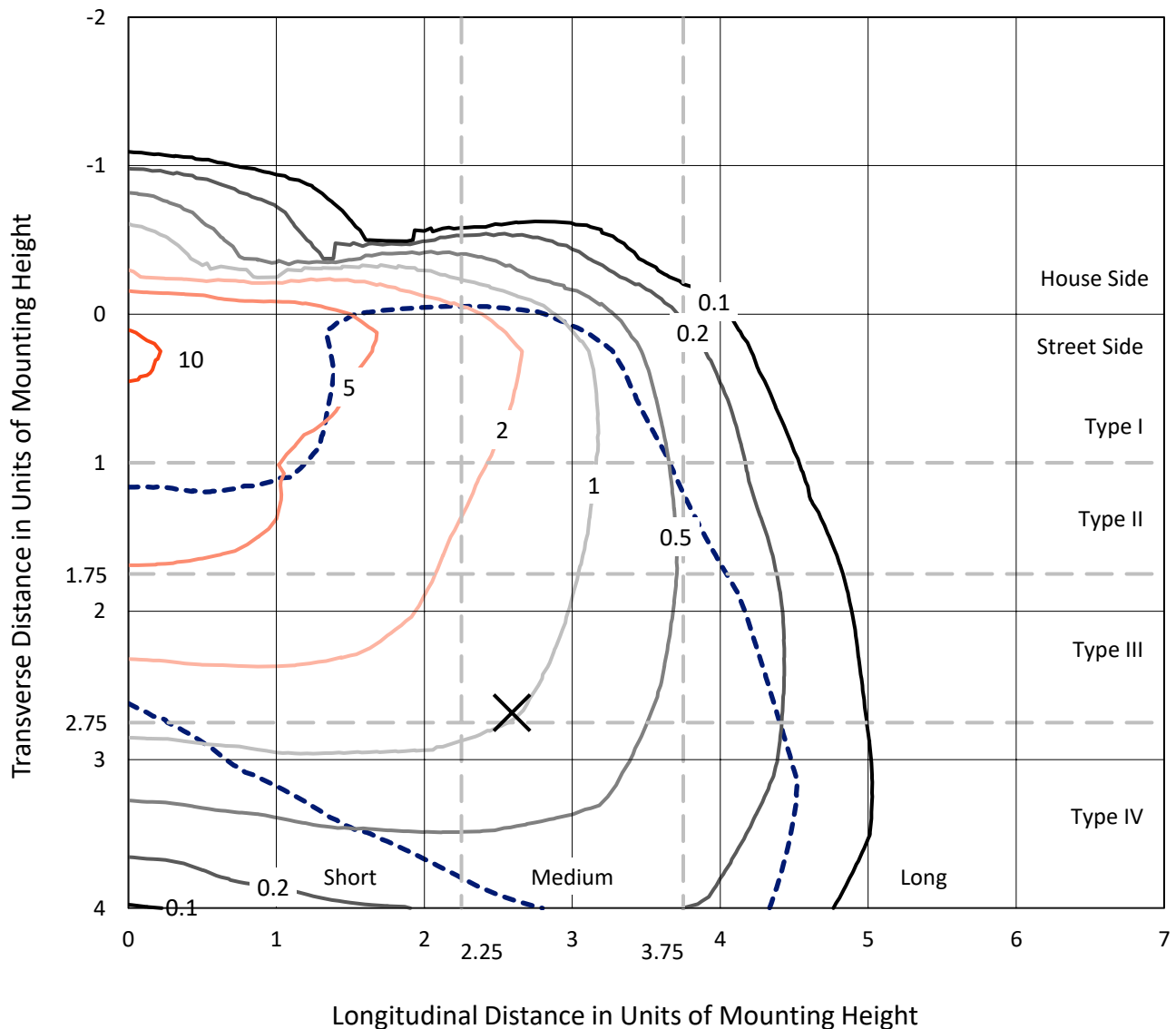


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

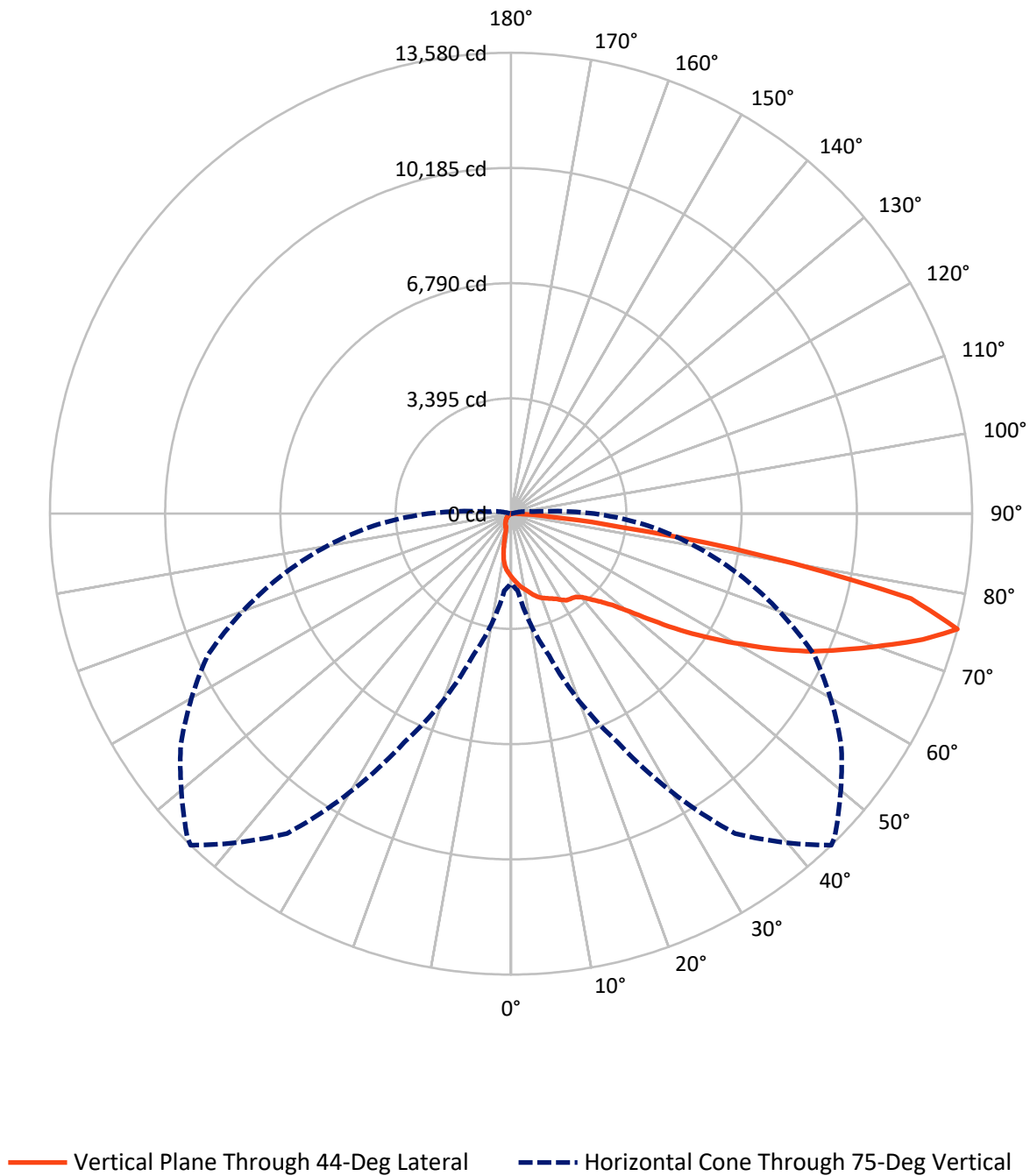


Based on 15 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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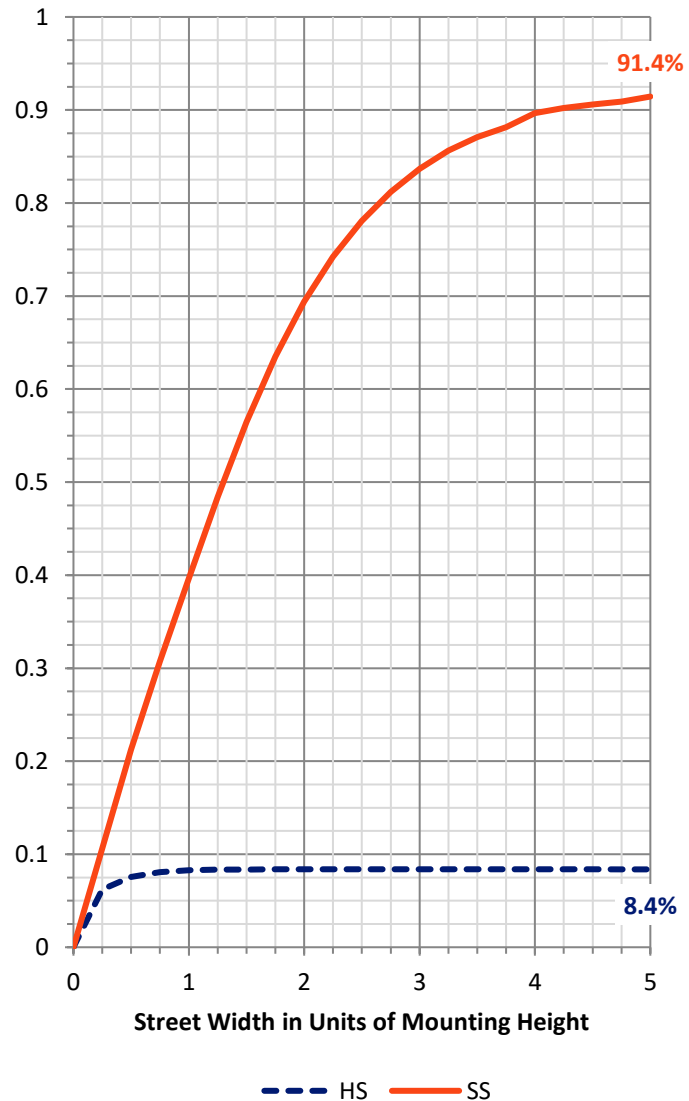
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1442.3	0.0	1442.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15660.7	0.0	15660.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	17103.0	0.0	17103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	1.0
10°-20°	492.0	2.9
20°-30°	811.9	4.7
30°-40°	1178.3	6.9
40°-50°	1915.4	11.2
50°-60°	3376.7	19.7
60°-70°	4853.0	28.4
70°-80°	3886.2	22.7
80°-90°	414.0	2.4
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°	17103.0	100.0
0°-180°	17103.0	100.0

Coefficient of Utilization



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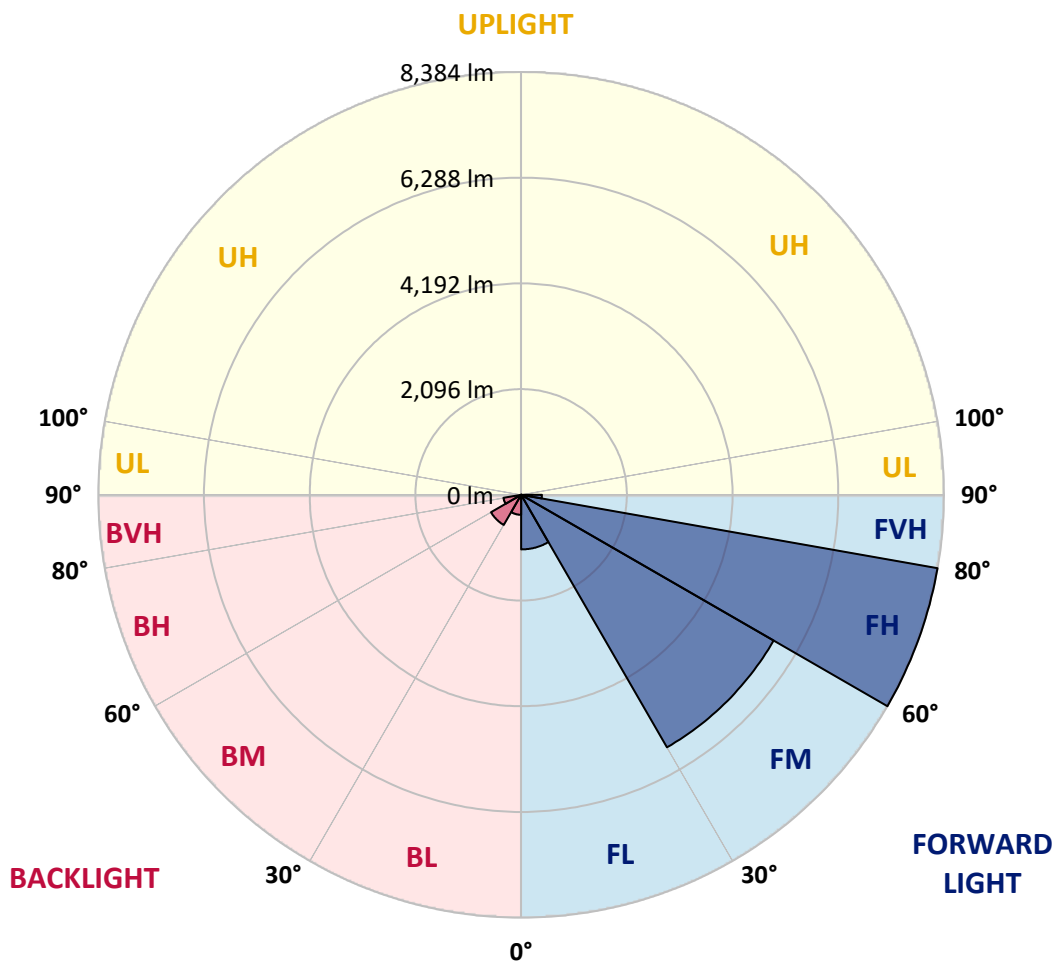
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1083.1	6.3			
FM	(30°-60°)	5781.0	33.8			
FH	(60°-80°)	8383.6	49.0			G4/12000
FVH	(80°-90°)	413.0	2.4			G3/500
BL	(0°-30°)	396.3	2.3	B1/500		
BM	(30°-60°)	689.5	4.0	B1/1000		
BH	(60°-80°)	355.6	2.1	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6
2.5°	2028.8	2025.7	2016.2	2000.4	1984.7	1968.9	1965.7	1940.5	1912.1	1890.0	1871.1
5°	2208.7	2205.6	2189.7	2155.1	2120.4	2079.3	2076.1	2016.2	1962.6	1902.6	1852.1
7.5°	2394.8	2388.5	2360.1	2306.5	2246.6	2183.5	2177.1	2088.8	2009.9	1931.0	1858.5
10°	2540.0	2533.7	2492.7	2429.6	2347.5	2268.7	2259.2	2167.7	2088.8	1987.8	1890.0
12.5°	2682.0	2669.3	2615.7	2546.3	2445.3	2369.6	2360.1	2265.5	2170.8	2066.7	1946.8
15°	2814.5	2798.8	2748.3	2659.9	2552.6	2480.1	2473.7	2372.7	2274.9	2155.1	2022.5
17.5°	2906.0	2899.7	2839.7	2741.9	2637.8	2577.9	2571.5	2467.4	2369.6	2243.4	2101.4
20°	2953.3	2953.3	2896.6	2789.3	2694.6	2653.6	2644.1	2546.3	2451.7	2331.8	2183.5
22.5°	2962.8	2972.3	2928.1	2811.4	2741.9	2707.2	2700.9	2615.7	2524.2	2413.8	2274.9
25°	2981.7	2981.7	2959.7	2833.4	2782.9	2773.5	2770.3	2694.6	2612.6	2502.2	2366.5
27.5°	3003.8	3003.8	2988.0	2865.0	2846.0	2842.9	2839.7	2805.0	2738.8	2609.4	2473.7
30°	3060.6	3063.7	3051.1	2928.1	2915.5	2950.2	2956.5	2937.6	2855.5	2694.6	2584.1
32.5°	3202.6	3174.2	3139.5	2972.3	2994.3	3038.5	3041.6	3003.8	2915.5	2786.1	2716.7
35°	3559.1	3391.9	3234.2	3010.1	3019.6	3063.7	3070.1	3066.9	3013.3	2902.8	2868.1
37.5°	3890.4	3653.8	3429.8	3098.5	3066.9	3114.2	3126.8	3180.5	3139.5	3063.7	3073.2
40°	4082.9	3991.4	3833.6	3341.5	3161.6	3234.2	3246.8	3328.8	3313.0	3281.5	3341.5
42.5°	4676.1	4682.4	4512.0	3704.3	3335.1	3451.9	3467.6	3533.9	3556.0	3571.7	3716.9
45°	5363.9	5386.0	5345.0	4357.4	3663.3	3701.1	3723.2	3811.6	3893.6	3994.6	4259.6
47.5°	6190.6	6171.7	6020.3	5155.7	4234.4	4023.0	4038.7	4209.1	4351.1	4571.9	4950.6
50°	6922.7	6970.0	6682.8	5900.4	5038.9	4531.0	4515.2	4682.4	4938.0	5247.2	5723.7
52.5°	7661.0	7591.6	7203.4	6638.7	5991.8	5222.0	5174.6	5266.1	5625.9	5991.8	6480.9
55°	7856.6	7862.9	7730.4	7446.4	6787.0	6061.3	5982.4	5976.1	6424.1	6673.4	7276.0
57.5°	8241.5	8257.3	8288.8	8345.7	8033.3	6900.6	6818.5	6730.2	7165.6	7310.7	8074.3
60°	8632.8	8651.8	8844.2	9150.3	8942.0	7806.1	7717.8	7509.5	7752.5	7948.1	8913.6
62.5°	8582.3	8714.9	9273.3	9882.2	9857.0	8800.1	8689.6	8187.9	8342.5	8512.9	9683.5
65°	7749.4	7891.3	9147.1	10084.2	10775.3	9781.3	9601.5	8888.4	8897.9	9102.9	10425.0
67.5°	7004.7	7159.3	8358.3	9999.0	11381.1	10661.6	10475.4	9592.0	9443.7	9784.4	10822.5
70°	6575.6	6730.2	7730.4	9733.9	11551.4	11636.6	11475.6	10396.6	10093.7	10406.1	10377.6
72.5°	5146.3	5389.2	6928.9	9229.1	11734.4	12681.0	12554.8	11415.7	10645.8	9756.1	7900.8
75°	2050.9	2274.9	4325.8	7427.5	11504.1	13580.3	13482.4	11873.3	9853.9	6966.8	4045.1
77.5°	618.4	662.6	1202.1	3672.7	8434.0	12040.5	12008.9	9983.2	6973.2	3234.2	1104.3
80°	205.1	227.1	369.2	1012.8	3849.4	7522.1	7664.2	6361.0	3167.9	741.5	224.0
82.5°	85.2	94.7	186.2	407.0	1363.0	3240.4	3193.2	2849.2	1104.3	460.6	82.1
85°	22.1	28.4	85.2	233.5	498.5	1116.9	1173.8	956.0	624.8	381.8	25.2
87.5°	0.0	0.0	41.0	94.7	224.0	337.6	353.4	290.3	353.4	287.1	12.6
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°	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6	1861.6
2.5°	1855.3	1839.5	1811.2	1792.2	1766.9	1760.7	1748.0	1732.2	1729.1	1713.3	1716.5
5°	1823.8	1798.5	1748.0	1713.3	1672.3	1659.6	1637.6	1621.8	1609.2	1587.1	1590.3
7.5°	1817.4	1779.6	1710.2	1643.9	1577.7	1530.3	1464.1	1410.4	1366.3	1318.9	1328.4
10°	1839.5	1792.2	1694.4	1602.9	1483.0	1331.5	1158.0	1044.4	987.6	930.8	937.1
12.5°	1883.7	1826.9	1700.7	1561.9	1318.9	1060.2	820.3	665.8	624.8	599.5	602.7
15°	1950.0	1880.5	1719.6	1483.0	1098.0	766.7	545.8	479.6	495.4	504.9	504.9
17.5°	2019.4	1940.5	1735.4	1341.0	848.8	536.4	444.9	438.6	460.6	482.7	482.7
20°	2104.5	2003.6	1738.6	1161.1	612.1	435.4	419.7	419.7	435.4	460.6	460.6
22.5°	2186.6	2073.0	1710.2	956.0	467.0	403.9	403.9	403.9	413.3	438.6	441.8
25°	2284.4	2158.2	1650.2	738.4	400.7	384.9	384.9	388.1	394.4	416.5	419.7
27.5°	2388.5	2246.6	1549.2	539.6	366.0	362.8	366.0	369.2	372.3	394.4	400.7
30°	2508.4	2344.4	1419.9	403.9	334.4	334.4	343.9	350.2	350.2	369.2	375.4
32.5°	2647.2	2473.7	1265.2	334.4	302.9	299.7	315.5	325.0	325.0	340.8	347.1
35°	2820.8	2606.2	1079.1	296.6	277.7	271.4	277.7	293.5	299.7	312.3	315.5
37.5°	3051.1	2764.0	880.3	274.5	258.7	246.1	246.1	249.2	261.9	274.5	277.7
40°	3344.6	2937.6	684.7	258.7	239.8	227.1	217.7	214.5	211.4	220.9	227.1
42.5°	3713.8	3133.2	511.1	243.0	224.0	205.1	192.5	179.9	164.0	160.9	164.0
45°	4187.0	3373.0	378.7	230.4	214.5	186.2	164.0	142.0	113.6	104.1	107.3
47.5°	4745.5	3622.2	296.6	217.7	208.3	164.0	135.7	97.8	69.5	63.1	66.2
50°	5338.7	3862.1	252.4	201.9	195.6	142.0	97.8	60.0	41.0	41.0	44.2
52.5°	5843.5	3997.7	230.4	189.3	176.7	116.7	63.1	34.7	25.2	25.2	28.4
55°	6332.6	4070.3	214.5	176.7	151.4	82.1	34.7	22.1	15.7	15.7	15.7
57.5°	6837.5	4101.8	195.6	160.9	119.9	50.5	18.9	12.6	9.5	9.5	9.5
60°	7285.5	4041.9	167.2	132.5	78.8	25.2	9.5	9.5	6.3	3.1	3.1
62.5°	7661.0	3928.3	116.7	94.7	47.3	12.6	6.3	3.1	0.0	0.0	0.0
65°	7891.3	3745.3	75.7	63.1	28.4	9.5	3.1	0.0	0.0	0.0	0.0
67.5°	7825.1	3401.4	47.3	41.0	12.6	6.3	3.1	0.0	0.0	0.0	0.0
70°	7061.5	2789.3	34.7	25.2	9.5	3.1	0.0	0.0	0.0	0.0	0.0
72.5°	5089.4	1886.9	25.2	15.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2448.5	672.0	15.7	12.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	599.5	148.3	9.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	132.5	28.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.2	12.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)