

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: P381257

Luminaire Tested: **PRV-XL-PA3B-8540-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
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-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17645.7 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

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

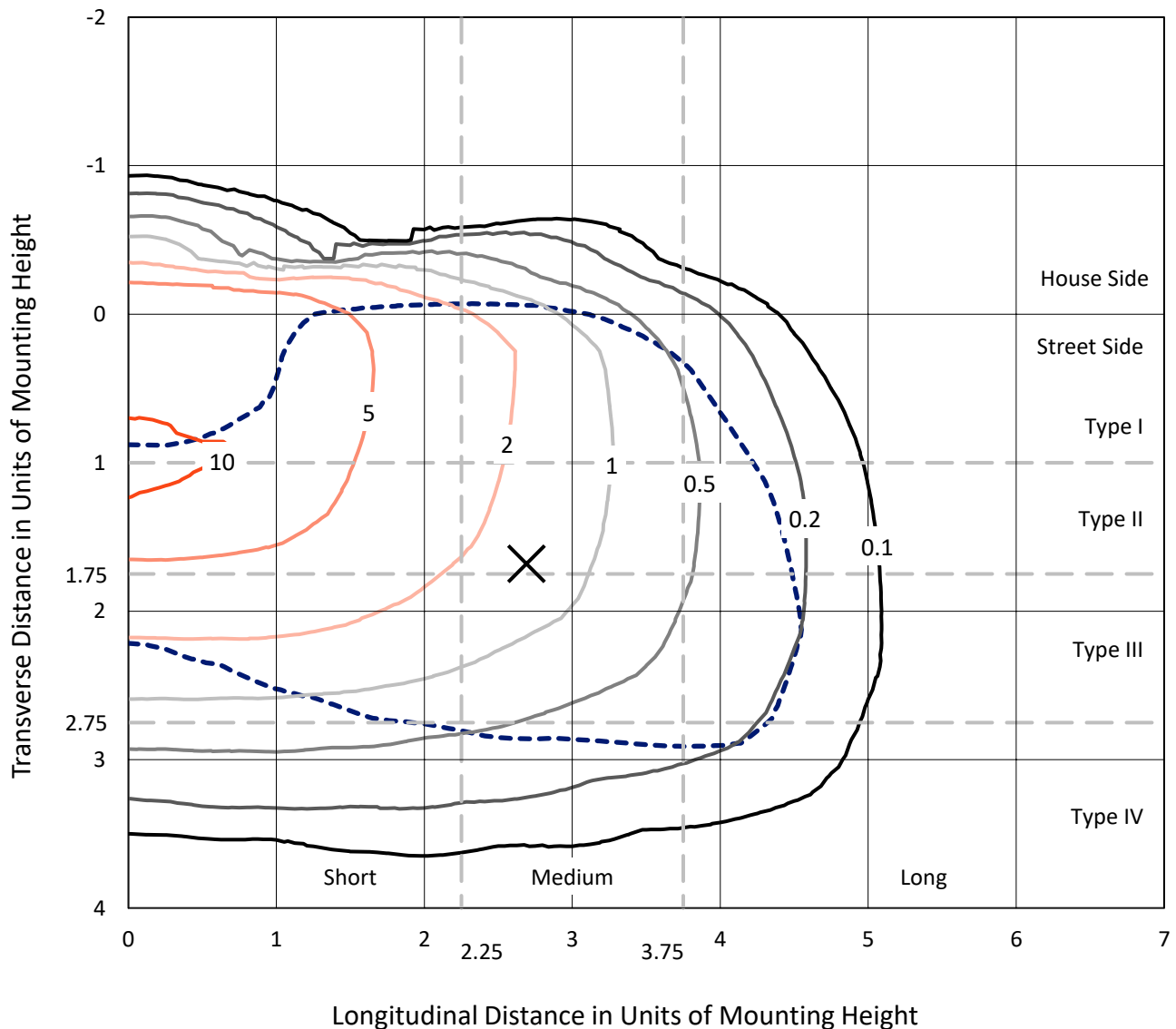


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

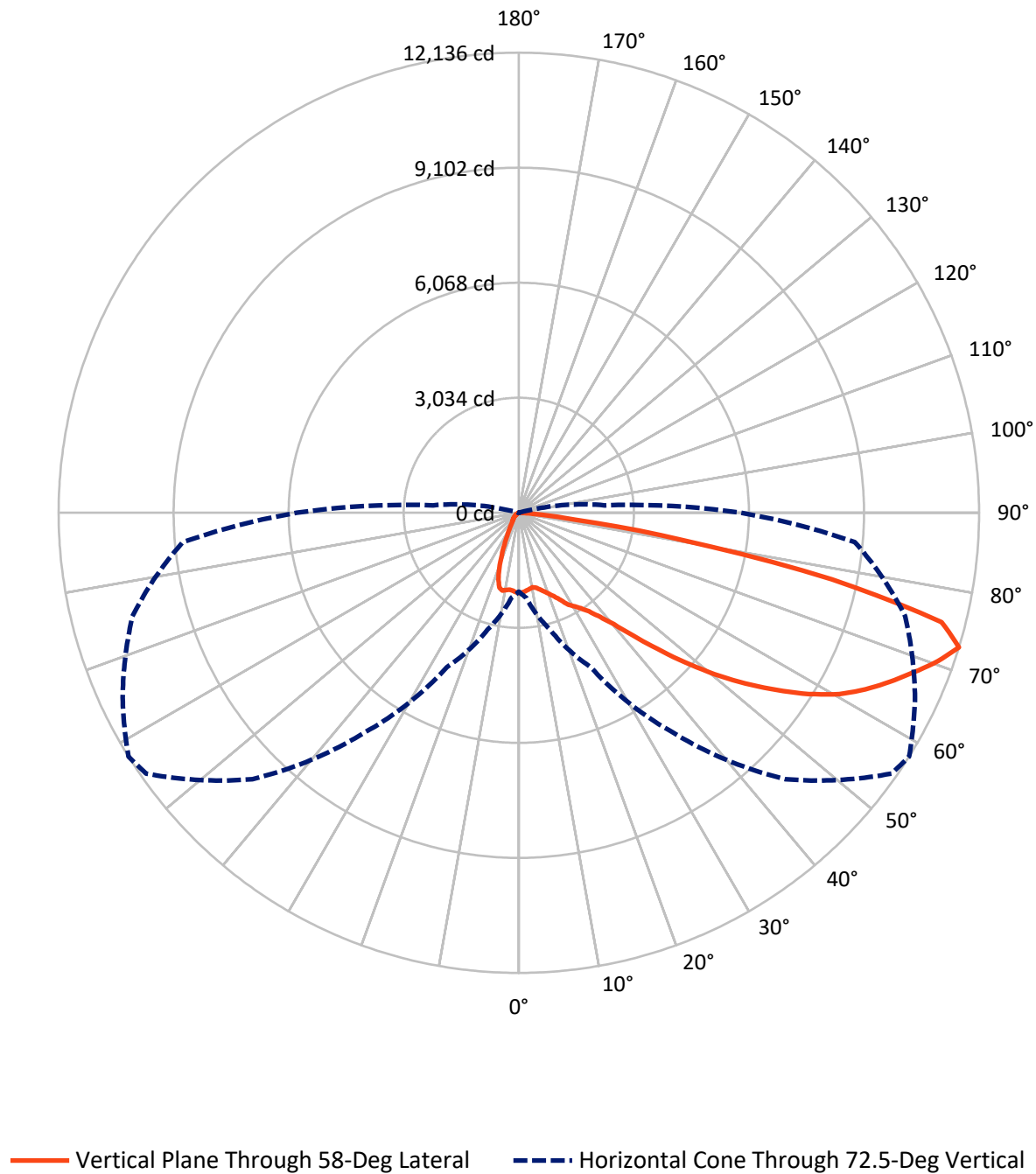


Based on 15 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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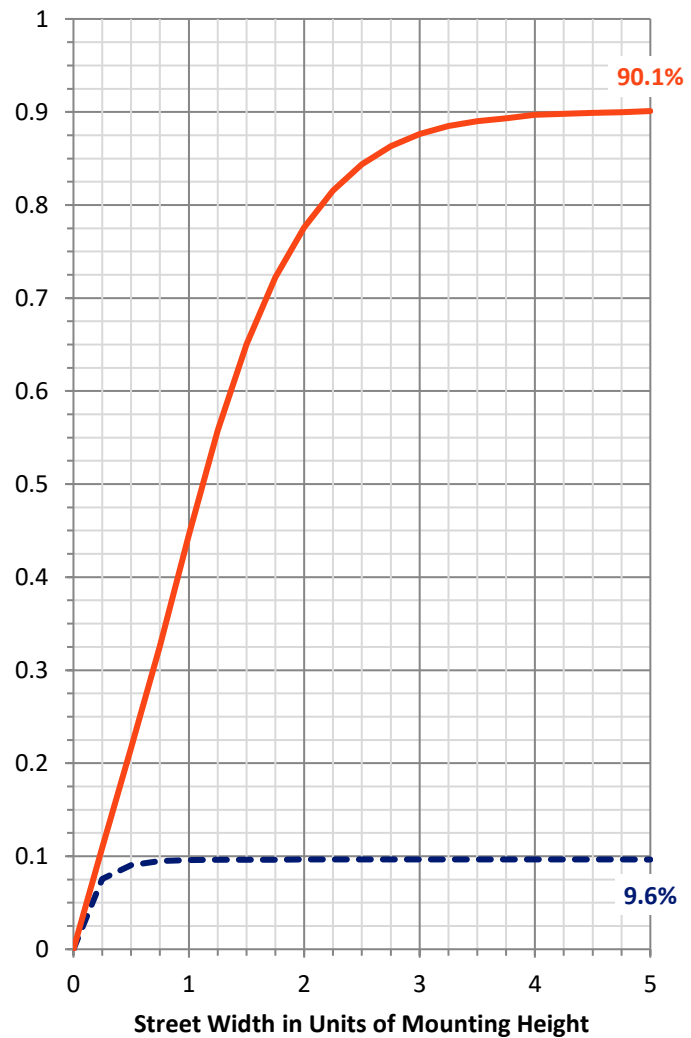
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1715.9	0.0	1715.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	15929.8	0.0	15929.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	17645.7	0.0	17645.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	1.1
10°-20°	506.1	2.9
20°-30°	795.1	4.5
30°-40°	1371.2	7.8
40°-50°	2608.8	14.8
50°-60°	4131.5	23.4
60°-70°	4821.0	27.3
70°-80°	3019.4	17.1
80°-90°	198.2	1.1
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°	17645.7	100.0
0°-180°	17645.7	100.0

Coefficient of Utilization



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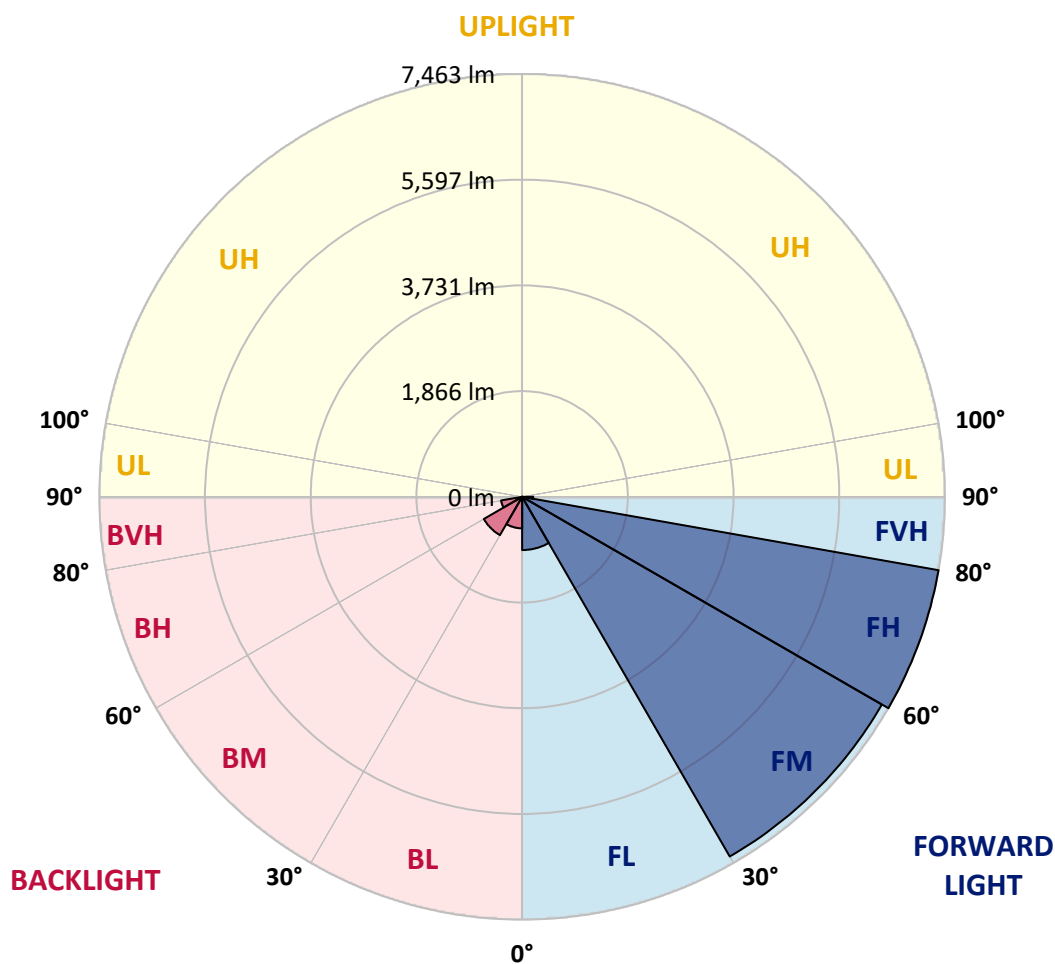
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	939.9	5.3			
FM	(30°-60°)	7330.8	41.5			
FH	(60°-80°)	7462.9	42.3			G3/7500
FVH	(80°-90°)	196.3	1.1			G2/225
BL	(0°-30°)	555.7	3.1	B2/1000		
BM	(30°-60°)	780.8	4.4	B1/1000		
BH	(60°-80°)	377.6	2.1	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	2107.9	2098.4	2095.3	2092.1	2095.3	2098.4	2089.0	2098.4	2092.1	2095.3	2101.6
5°	2032.2	2022.7	2019.6	2022.7	2032.2	2047.9	2054.3	2063.8	2063.8	2073.2	2076.4
7.5°	1947.0	1940.7	1937.5	1943.8	1962.7	1997.4	2016.4	2029.0	2041.7	2060.5	2079.5
10°	1899.6	1896.5	1893.3	1902.8	1921.7	1953.3	1978.6	1997.4	2044.8	2098.4	2133.1
12.5°	1868.1	1868.1	1874.4	1893.3	1918.6	1943.8	2003.8	2029.0	2101.6	2183.6	2231.0
15°	1842.9	1842.9	1852.3	1887.0	1921.7	1981.7	2070.0	2098.4	2183.6	2284.6	2347.7
17.5°	1823.9	1830.2	1836.5	1871.2	1937.5	2038.5	2142.6	2183.6	2287.8	2398.3	2467.6
20°	1827.1	1833.4	1836.5	1871.2	1965.9	2104.8	2237.3	2284.6	2404.5	2521.3	2590.7
22.5°	1846.0	1855.5	1858.6	1906.0	2016.4	2174.2	2344.5	2398.3	2527.6	2650.7	2704.3
25°	1924.8	1931.2	1912.2	1953.3	2089.0	2281.4	2483.4	2540.2	2669.6	2783.2	2827.4
27.5°	2193.1	2199.4	2095.3	2047.9	2145.8	2369.8	2653.8	2732.7	2893.7	2969.4	2975.7
30°	2773.7	2780.0	2574.9	2350.9	2281.4	2445.5	2748.5	2859.0	3067.2	3152.4	3114.5
32.5°	3521.6	3515.3	3234.4	2903.1	2603.3	2578.1	2884.2	3000.9	3228.2	3310.2	3281.8
35°	4272.6	4282.1	4042.2	3543.7	3114.5	2827.4	3057.7	3193.4	3468.0	3584.7	3534.2
37.5°	4786.9	4850.1	4745.9	4206.4	3742.5	3288.1	3338.6	3483.7	3827.7	3985.5	3878.2
40°	5512.7	5497.0	5244.5	4846.9	4436.7	3969.7	3793.0	3862.4	4256.9	4468.3	4301.0
42.5°	6487.8	6456.2	6027.1	5639.0	5181.4	4799.6	4439.8	4427.2	4749.1	4995.2	4752.3
45°	7371.4	7324.0	7030.6	6655.0	6153.4	5714.7	5228.7	5118.3	5342.3	5550.6	5266.6
47.5°	8075.1	7996.2	7787.9	7589.1	7466.1	6784.5	6055.5	5888.2	6001.9	6156.5	5755.8
50°	8908.1	8690.4	8387.4	8267.5	8523.1	7996.2	6850.7	6689.8	6683.5	6771.8	6260.6
52.5°	9286.8	8892.4	8721.9	8822.9	9274.2	9122.7	7709.0	7478.7	7387.1	7396.6	6730.8
55°	8829.3	8785.0	8876.6	9192.1	9782.2	9693.9	8532.6	8248.6	8112.9	7942.5	7182.1
57.5°	8308.6	8444.3	8807.1	9409.9	10426.0	10290.3	9343.6	9021.7	8772.4	8381.2	7683.7
60°	7828.9	7967.7	8567.4	9460.4	10779.3	10864.6	10018.9	9712.8	9343.6	8829.3	8236.0
62.5°	7100.0	7207.3	8049.8	9387.8	10624.8	11199.0	10489.1	10258.7	9914.7	9255.2	8870.3
65°	6279.6	6349.0	7182.1	8807.1	10321.8	11161.2	10877.2	10747.8	10413.4	9700.2	9498.2
67.5°	5380.2	5462.3	6156.5	7762.7	9728.5	10984.5	11243.3	11230.6	10848.8	10192.5	9952.6
70°	4345.2	4351.5	4925.9	6437.4	8693.6	10631.0	11697.6	11726.1	11265.3	10561.7	9971.5
72.5°	2079.5	2249.9	3193.4	4493.5	7065.2	9936.8	11994.2	12136.3	11527.2	10549.0	8895.5
75°	476.5	492.3	930.9	2136.3	4143.2	7627.0	11252.7	11517.8	10889.8	9122.7	6266.9
77.5°	173.6	183.0	261.9	624.8	1593.6	3941.3	8053.0	8441.1	8049.8	5897.7	2963.0
80°	116.7	113.6	135.7	277.7	732.1	1117.0	4118.0	4348.3	3969.7	2013.2	710.0
82.5°	60.0	63.1	94.7	154.6	492.3	388.1	1375.8	1495.8	1230.6	403.9	132.6
85°	28.4	28.4	53.6	97.8	208.3	135.7	306.1	369.2	331.4	176.7	44.2
87.5°	28.4	28.4	50.5	63.1	107.3	56.8	75.7	94.7	88.3	94.7	15.8
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°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	2101.6	2098.4	2095.3	2101.6	2098.4	2104.8	2104.8	2111.0	2111.0	2104.8	2101.6
5°	2073.2	2066.9	2060.5	2060.5	2057.4	2063.8	2082.7	2098.4	2101.6	2092.1	2089.0
7.5°	2076.4	2076.4	2070.0	2057.4	2035.3	2035.3	2035.3	2054.3	2063.8	2057.4	2054.3
10°	2133.1	2136.3	2120.5	2092.1	2054.3	2019.6	1953.3	1855.5	1763.9	1738.7	1729.3
12.5°	2231.0	2234.1	2202.6	2152.1	2073.2	1868.1	1615.6	1382.2	1202.3	1151.8	1142.3
15°	2347.7	2350.9	2294.1	2212.1	1972.2	1495.8	1120.2	855.2	697.3	659.5	656.4
17.5°	2467.6	2461.4	2376.1	2218.3	1672.4	1060.3	681.6	545.9	504.9	495.4	498.6
20°	2584.4	2565.5	2448.7	2101.6	1287.5	694.2	498.6	467.1	457.6	451.2	451.2
22.5°	2691.7	2653.8	2508.7	1871.2	902.5	498.6	444.9	438.6	426.0	416.6	413.3
25°	2799.0	2745.4	2546.6	1571.5	605.9	435.5	419.7	407.1	391.3	378.7	375.5
27.5°	2928.3	2852.6	2527.6	1192.8	454.4	403.9	391.3	372.3	350.2	331.4	325.0
30°	3051.4	2966.2	2420.3	823.6	388.1	372.3	353.4	325.0	296.6	274.5	268.3
32.5°	3206.1	3108.2	2227.8	539.6	337.6	325.0	306.1	271.4	233.5	208.3	201.9
35°	3427.0	3316.5	1981.7	378.7	296.6	274.5	249.3	211.4	170.4	151.4	148.3
37.5°	3736.2	3587.9	1672.4	306.1	261.9	230.4	192.5	154.6	126.2	110.5	107.3
40°	4114.8	3887.7	1328.5	271.4	233.5	192.5	145.2	110.5	91.5	78.9	78.9
42.5°	4525.0	4168.5	978.2	249.3	205.1	157.8	107.3	78.9	66.2	60.0	56.8
45°	4947.9	4417.8	659.5	230.4	179.9	119.9	75.7	53.6	44.2	44.2	41.0
47.5°	5386.5	4585.0	426.0	208.3	151.4	88.3	50.5	37.9	31.6	31.6	31.6
50°	5822.0	4673.3	302.9	189.3	123.1	60.0	37.9	28.4	25.2	25.2	25.2
52.5°	6137.5	4616.6	243.0	164.1	94.7	44.2	28.4	22.1	18.9	18.9	18.9
55°	6412.1	4518.8	211.4	142.0	69.5	31.6	22.1	18.9	15.8	15.8	15.8
57.5°	6692.9	4392.6	189.3	119.9	50.5	22.1	15.8	12.6	12.6	12.6	12.6
60°	6948.5	4177.9	164.1	94.7	34.7	15.8	12.6	9.5	9.5	9.5	9.5
62.5°	7197.8	3994.9	142.0	72.6	25.2	12.6	6.3	6.3	3.1	3.1	3.1
65°	7339.8	3748.8	113.6	47.4	15.8	9.5	3.1	3.1	0.0	0.0	0.0
67.5°	7295.6	3455.3	78.9	28.4	9.5	6.3	3.1	0.0	0.0	0.0	0.0
70°	6989.5	3060.9	47.4	15.8	9.5	6.3	3.1	0.0	0.0	0.0	0.0
72.5°	5853.6	2265.7	28.4	12.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0
75°	3909.8	1041.3	15.8	9.5	3.1	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	1789.2	312.4	9.5	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	359.7	82.1	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.7	15.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	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)