

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: P381384

Luminaire Tested: **PRV-XL-PA3A-8540-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
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-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13480.9 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

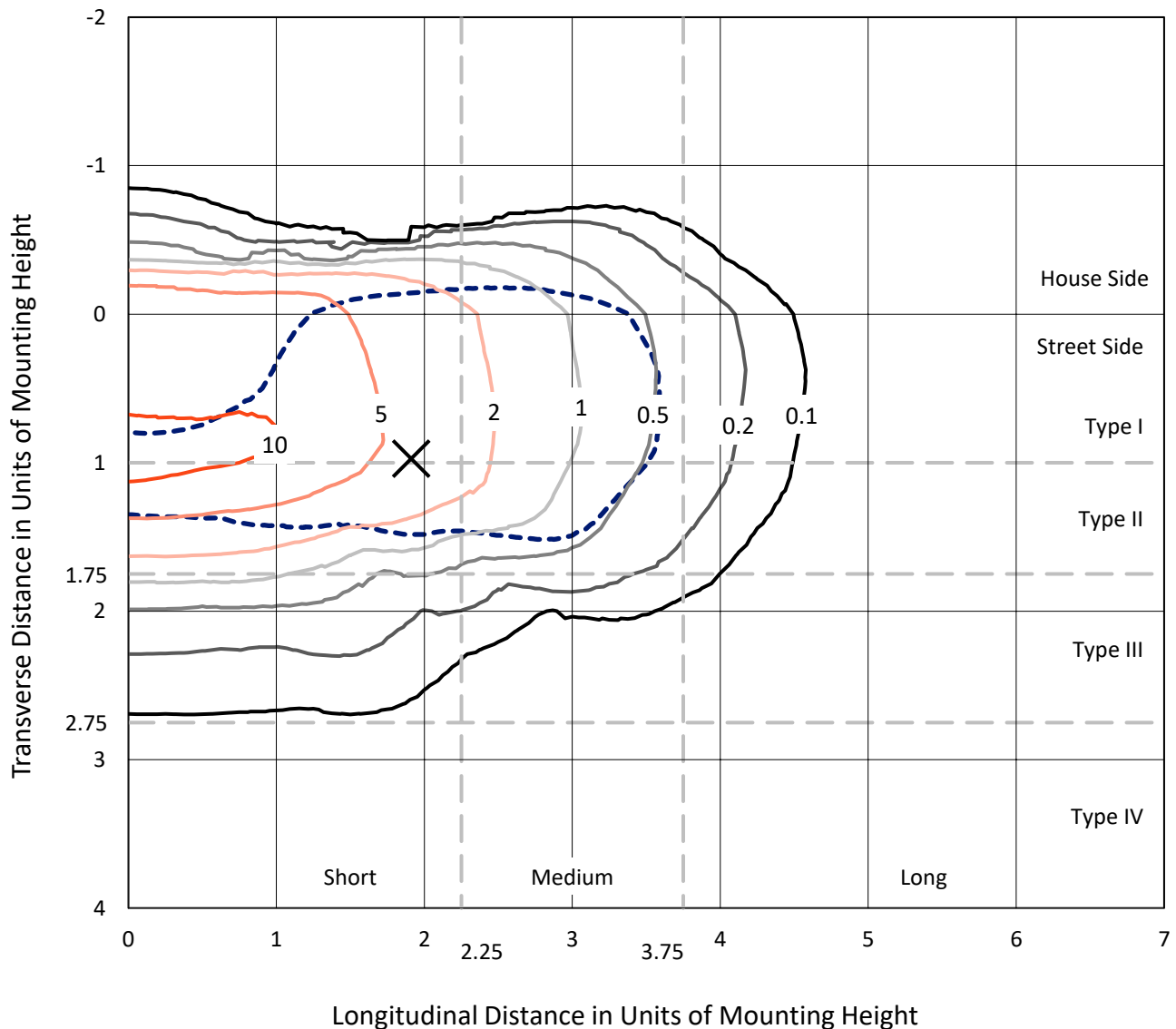


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

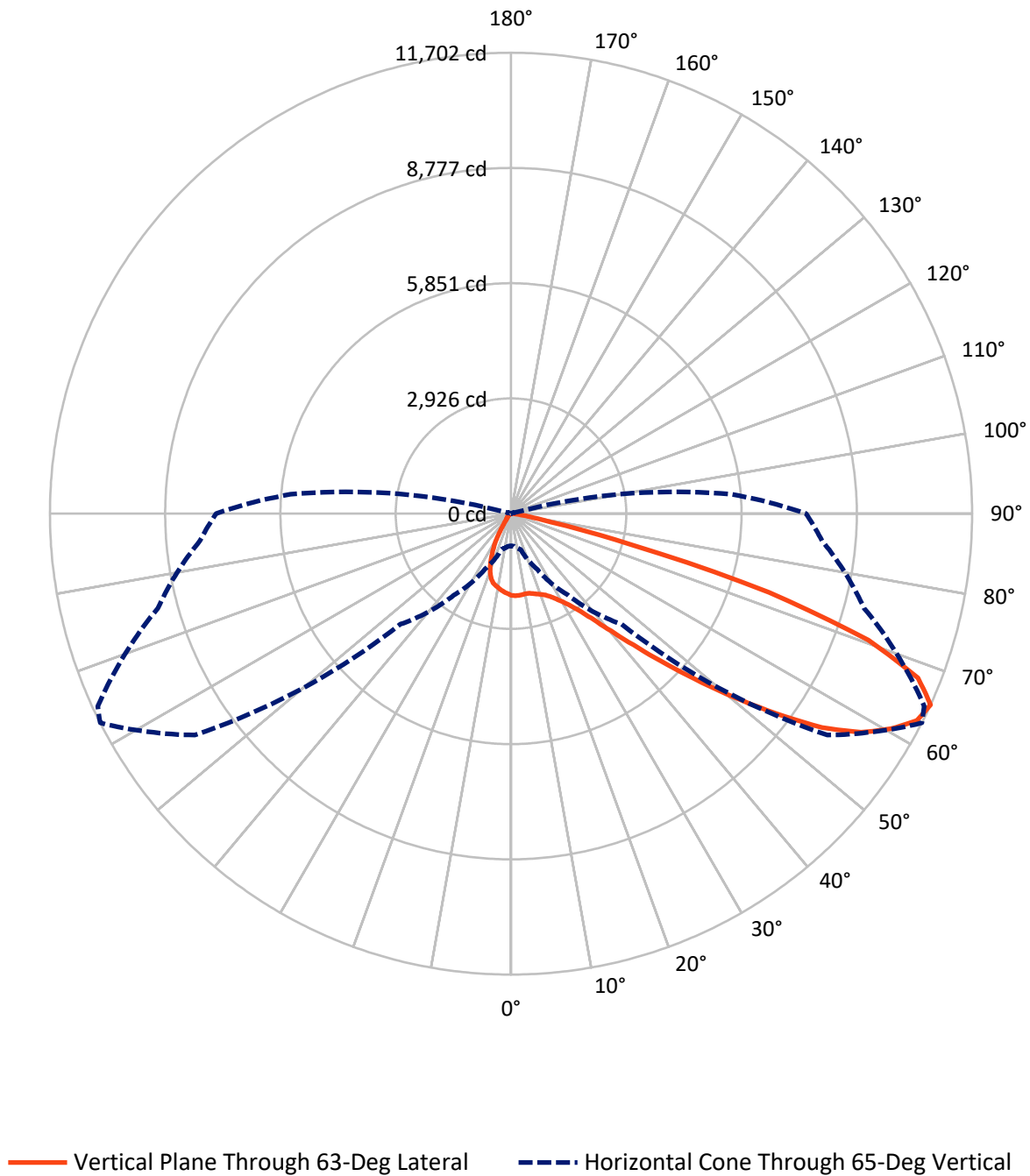


Based on 15 foot mounting height. Maximum calculated value = 12.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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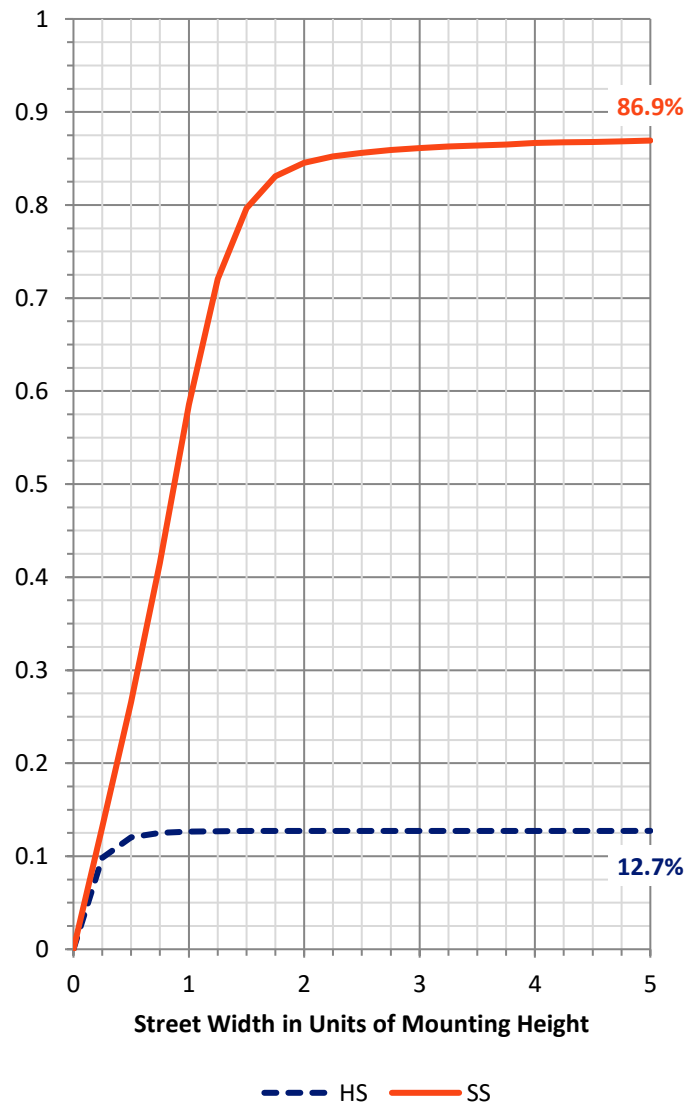
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.0	0.0	1735.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	11745.9	0.0	11745.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	13480.9	0.0	13480.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	1.4
10°-20°	467.5	3.5
20°-30°	692.9	5.1
30°-40°	1286.5	9.5
40°-50°	2725.4	20.2
50°-60°	3768.5	28.0
60°-70°	3016.8	22.4
70°-80°	1253.4	9.3
80°-90°	80.5	0.6
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°	13480.9	100.0
0°-180°	13480.9	100.0

Coefficient of Utilization



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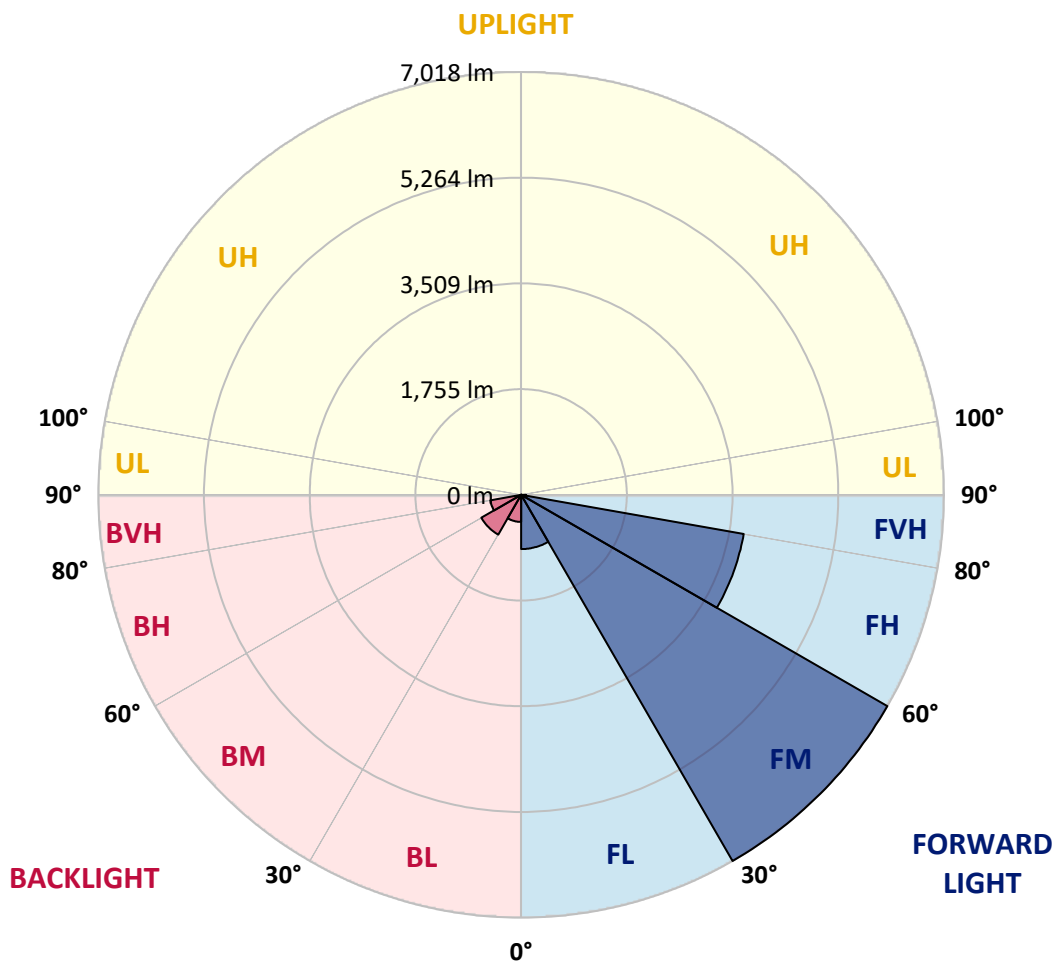
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	900.2	6.7			
FM	(30°-60°)	7018.2	52.1			
FH	(60°-80°)	3750.7	27.8			G2/5000
FVH	(80°-90°)	76.8	0.6			G1/100
BL	(0°-30°)	449.6	3.3	B1/500		
BM	(30°-60°)	762.2	5.7	B1/1000		
BH	(60°-80°)	519.5	3.9	B2/1000		G2/1000
BVH	(80°-90°)	3.7	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	2112.4	2107.3	2102.2	2099.6	2099.6	2097.1	2086.9	2084.3	2079.3	2074.2	2069.1
5°	2092.0	2084.3	2081.8	2084.3	2086.9	2092.0	2086.9	2086.9	2081.8	2076.8	2066.6
7.5°	2041.1	2036.0	2038.5	2046.2	2048.7	2066.6	2069.1	2076.8	2076.8	2071.7	2064.0
10°	1980.1	1977.5	1977.5	1990.2	2002.9	2028.4	2046.2	2066.6	2069.1	2069.1	2056.4
12.5°	1934.2	1931.7	1939.3	1954.6	1980.1	2013.1	2043.6	2074.2	2079.3	2081.8	2061.5
15°	1906.2	1906.2	1916.4	1946.9	1982.6	2028.4	2064.0	2104.7	2109.8	2107.3	2079.3
17.5°	1880.8	1883.3	1903.7	1954.6	1995.3	2056.4	2099.6	2145.4	2148.0	2145.4	2099.6
20°	1870.6	1875.7	1906.2	1972.4	2018.2	2086.9	2142.9	2188.7	2191.3	2181.1	2120.0
22.5°	1898.6	1901.1	1939.3	2010.6	2053.8	2130.2	2201.5	2244.7	2247.3	2232.0	2150.5
25°	1995.3	1995.3	2028.4	2089.4	2127.6	2204.0	2280.3	2331.2	2331.2	2313.5	2219.3
27.5°	2221.8	2201.5	2193.8	2211.7	2224.3	2305.8	2387.2	2450.9	2448.3	2422.8	2308.4
30°	2659.5	2608.6	2527.2	2435.6	2389.8	2445.8	2522.1	2603.6	2601.0	2560.3	2417.7
32.5°	3395.1	3321.3	3127.9	2886.1	2690.1	2626.5	2697.7	2786.8	2789.4	2741.0	2593.4
35°	4425.8	4308.7	3962.6	3626.7	3178.7	2937.0	2957.3	3054.0	3084.6	3059.1	2888.6
37.5°	5418.4	5311.5	4980.6	4514.9	3906.6	3412.9	3326.3	3410.4	3446.0	3446.0	3265.3
40°	6418.6	6293.8	6001.1	5532.9	4891.6	4156.0	3845.5	3914.2	3952.4	3960.0	3723.4
42.5°	7220.3	7138.8	6914.8	6550.9	5950.3	5459.1	4593.8	4555.6	4591.2	4563.2	4255.3
45°	7775.0	7711.5	7556.2	7418.8	7126.1	6879.2	5594.0	5336.9	5359.8	5263.1	4853.3
47.5°	7889.6	7818.3	7785.2	7976.1	8184.8	8245.9	6823.2	6265.9	6242.9	6029.2	5474.3
50°	7390.7	7398.4	7520.6	8065.2	8935.6	9485.3	8248.4	7314.4	7230.5	6754.5	6052.0
52.5°	6314.2	6436.3	6744.3	7627.4	9164.6	10386.3	9673.7	8426.6	8296.8	7459.5	6484.7
55°	4939.9	5097.7	5604.2	6619.6	8686.2	10788.3	10874.9	9582.0	9286.8	7988.9	6820.6
57.5°	3672.5	3720.8	4311.3	5237.6	7553.6	10393.9	11490.8	10472.8	10093.6	8411.3	7154.0
60°	2288.0	2318.5	2942.0	3988.1	5721.2	8935.6	11490.8	11086.1	10724.8	8790.5	7459.5
62.5°	1422.6	1432.8	1667.0	2733.4	3888.8	6627.2	11014.9	11562.1	11271.9	9062.8	7721.6
65°	819.5	829.7	939.1	1544.9	2529.8	3967.7	9798.4	11702.0	11572.3	9279.2	7925.2
67.5°	598.1	603.1	646.4	867.9	1654.2	2038.5	7360.2	11139.6	11302.4	9386.1	7920.1
70°	519.2	526.8	582.8	677.0	1193.6	1252.2	3746.3	9620.2	10075.7	9233.4	7683.4
72.5°	399.6	409.7	493.8	636.3	875.5	900.9	1356.5	6846.1	7535.8	8279.0	7034.5
75°	274.8	285.0	369.0	524.3	722.8	674.4	745.7	3150.7	3975.4	5553.3	5354.7
77.5°	175.6	178.1	231.6	381.8	623.5	478.5	511.5	1028.2	1443.1	2511.9	2527.2
80°	117.1	119.6	142.5	246.9	427.6	442.9	315.5	475.9	521.7	733.0	509.0
82.5°	71.3	71.3	96.7	155.3	259.6	366.5	206.2	249.4	267.2	282.5	132.3
85°	28.0	28.0	58.6	101.8	162.9	170.5	129.8	145.1	152.7	165.4	61.1
87.5°	7.7	7.7	33.1	56.0	71.3	78.9	78.9	71.3	76.3	94.2	30.5
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°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	2066.6	2058.9	2048.7	2038.5	2028.4	2020.8	2013.1	2013.1	2008.0	2000.4	1995.3
5°	2061.5	2048.7	2025.9	2008.0	1980.1	1959.7	1944.4	1931.7	1924.1	1906.2	1903.7
7.5°	2053.8	2038.5	2005.5	1969.9	1924.1	1888.4	1852.8	1827.4	1801.8	1781.5	1776.4
10°	2041.1	2023.3	1975.0	1924.1	1860.4	1794.2	1710.2	1613.5	1524.5	1473.6	1458.3
12.5°	2041.1	2018.2	1954.6	1885.9	1794.2	1631.4	1417.5	1203.8	1038.3	964.6	944.2
15°	2053.8	2023.3	1939.3	1845.1	1674.6	1343.8	997.6	715.1	534.5	478.5	465.7
17.5°	2066.6	2023.3	1916.4	1789.2	1455.8	974.8	567.5	376.7	318.1	305.4	305.4
20°	2071.7	2018.2	1885.9	1684.8	1163.1	605.7	338.5	282.5	259.6	252.0	252.0
22.5°	2092.0	2020.8	1863.0	1534.7	844.9	356.3	267.2	236.7	213.8	206.2	206.2
25°	2142.9	2051.3	1868.1	1343.8	542.1	269.7	226.5	196.0	173.0	162.9	162.9
27.5°	2224.3	2120.0	1896.0	1122.4	341.0	231.6	190.9	157.8	140.0	129.8	129.8
30°	2316.0	2196.4	1908.8	867.9	254.5	196.0	155.3	124.7	112.0	104.4	101.8
32.5°	2476.3	2328.7	1898.6	595.5	208.7	165.4	124.7	99.3	89.1	86.5	86.5
35°	2733.4	2560.3	1878.3	374.1	173.0	132.3	99.3	81.4	73.8	71.3	68.7
37.5°	3082.0	2898.8	1817.2	246.9	142.5	104.4	81.4	68.7	61.1	58.6	58.6
40°	3507.1	3285.6	1700.0	188.3	122.1	84.0	68.7	58.6	53.5	50.9	50.9
42.5°	3993.1	3715.7	1514.3	162.9	101.8	71.3	58.6	48.4	45.8	43.3	43.3
45°	4525.0	4166.2	1257.3	145.1	86.5	58.6	48.4	43.3	38.2	38.2	35.6
47.5°	5090.0	4619.2	967.1	127.2	73.8	50.9	43.3	35.6	33.1	30.5	30.5
50°	5634.7	5023.9	679.5	109.5	61.1	43.3	35.6	30.5	28.0	25.4	25.4
52.5°	6019.0	5268.2	481.0	94.2	50.9	38.2	28.0	22.9	20.4	20.4	20.4
55°	6327.0	5420.9	335.9	78.9	43.3	33.1	22.9	17.9	17.9	15.3	15.3
57.5°	6617.1	5520.2	246.9	66.2	35.6	25.4	17.9	12.8	12.8	10.2	10.2
60°	6917.4	5573.6	188.3	53.5	30.5	20.4	12.8	10.2	7.7	7.7	7.7
62.5°	7220.3	5606.7	145.1	43.3	25.4	15.3	10.2	7.7	5.1	2.6	2.6
65°	7484.9	5616.9	112.0	33.1	20.4	10.2	7.7	2.6	0.0	0.0	0.0
67.5°	7563.8	5499.8	86.5	25.4	15.3	7.7	5.1	0.0	0.0	0.0	0.0
70°	7350.0	5189.3	66.2	20.4	12.8	5.1	2.6	0.0	0.0	0.0	0.0
72.5°	6522.9	4352.0	50.9	12.8	10.2	5.1	2.6	0.0	0.0	0.0	0.0
75°	4667.5	2321.0	35.6	10.2	7.7	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	2148.0	898.4	25.4	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
80°	419.9	223.9	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	96.7	38.2	5.1	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.1	12.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	5.1	2.6	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)