

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: STREETWORKS

Report Number: P287041

Luminaire Tested: **USSL-C02-D-U-T4-AP-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C02-D-U-T4-AP-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19236.1 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 153
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

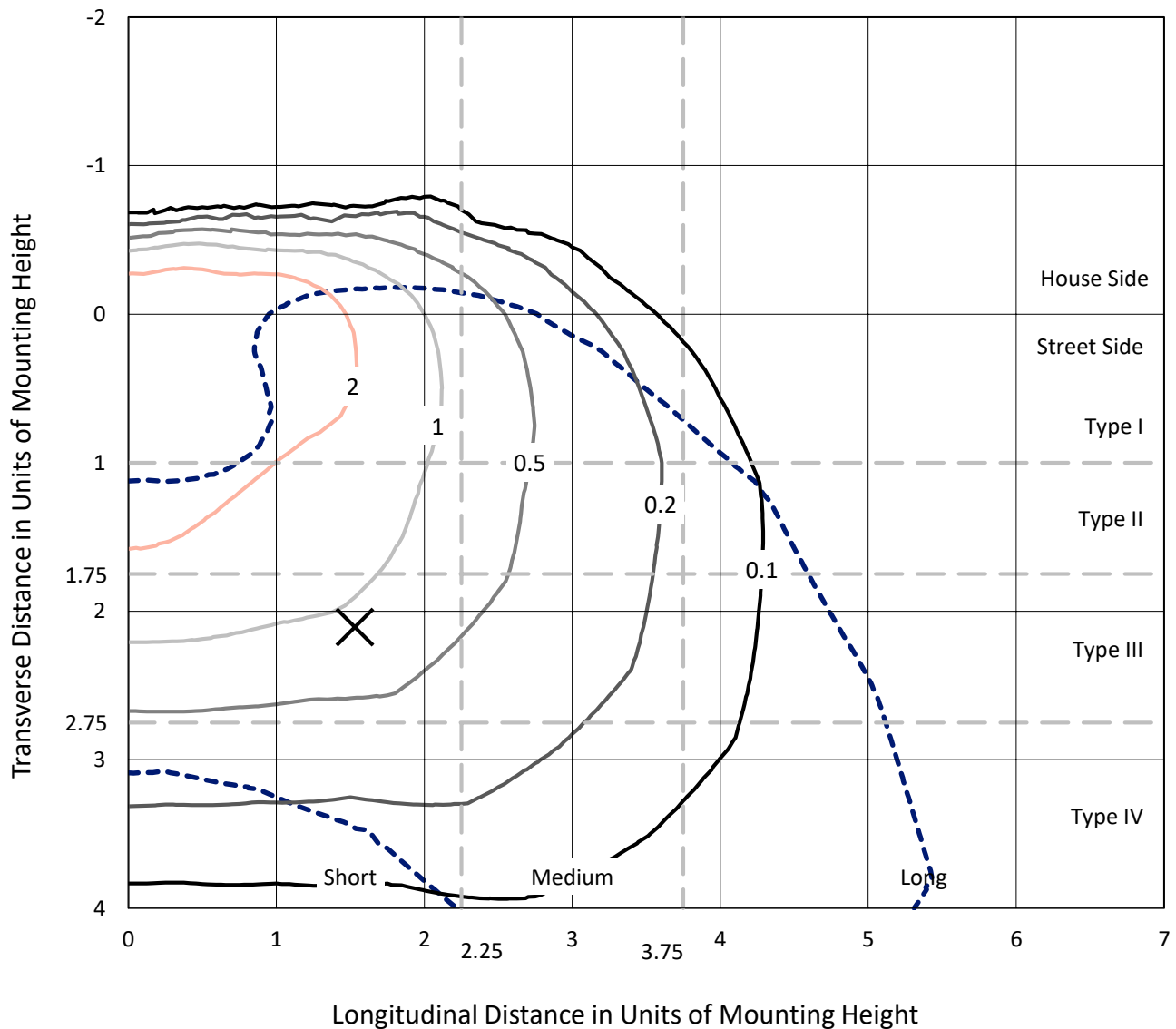


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

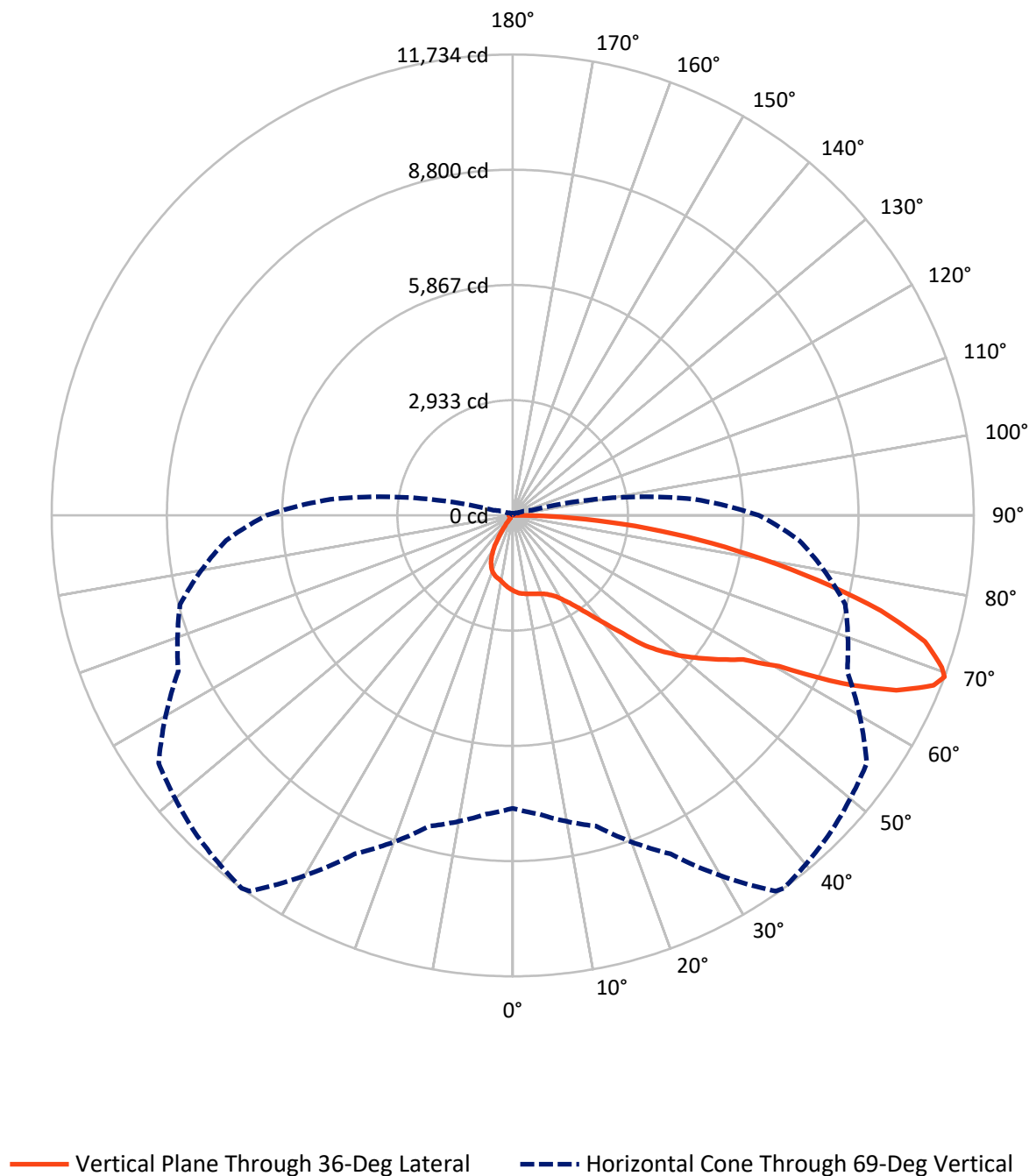


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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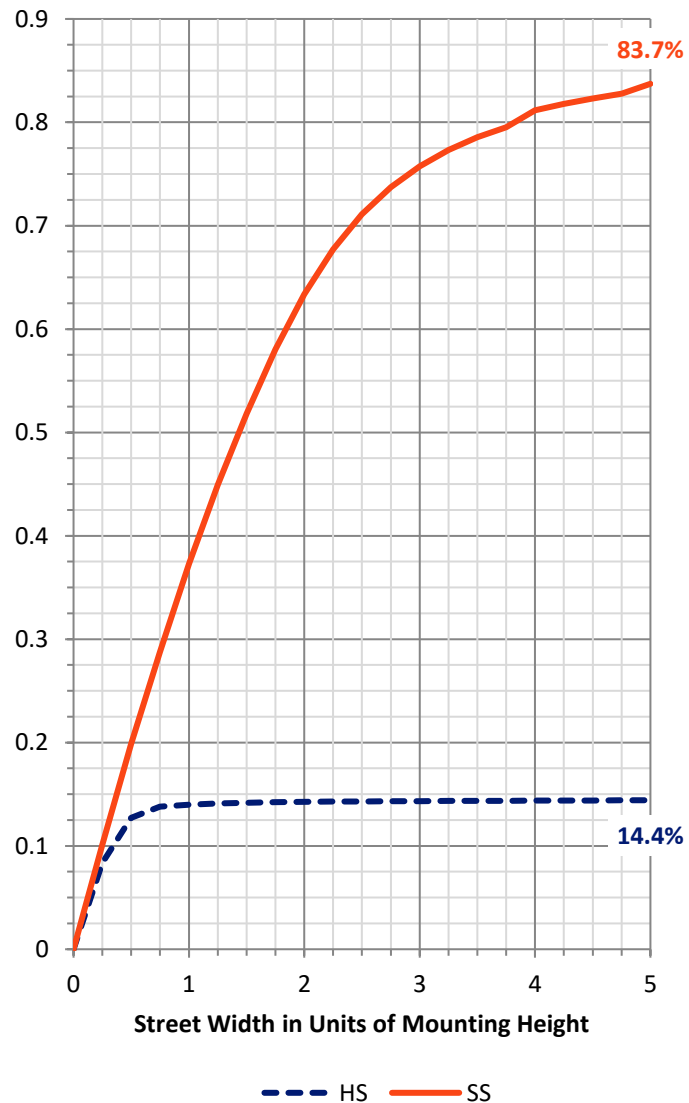
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2804.8	0.0	2804.8
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	16431.3	0.0	16431.3
	% Fixture	85.4	0.0	85.4
Total	Lumens	19236.1	0.0	19236.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	0.9
10°-20°	543.1	2.8
20°-30°	910.1	4.7
30°-40°	1471.8	7.7
40°-50°	2596.0	13.5
50°-60°	3784.0	19.7
60°-70°	4997.8	26.0
70°-80°	3842.9	20.0
80°-90°	908.5	4.7
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°	19236.1	100.0
0°-180°	19236.1	100.0

Coefficient of Utilization



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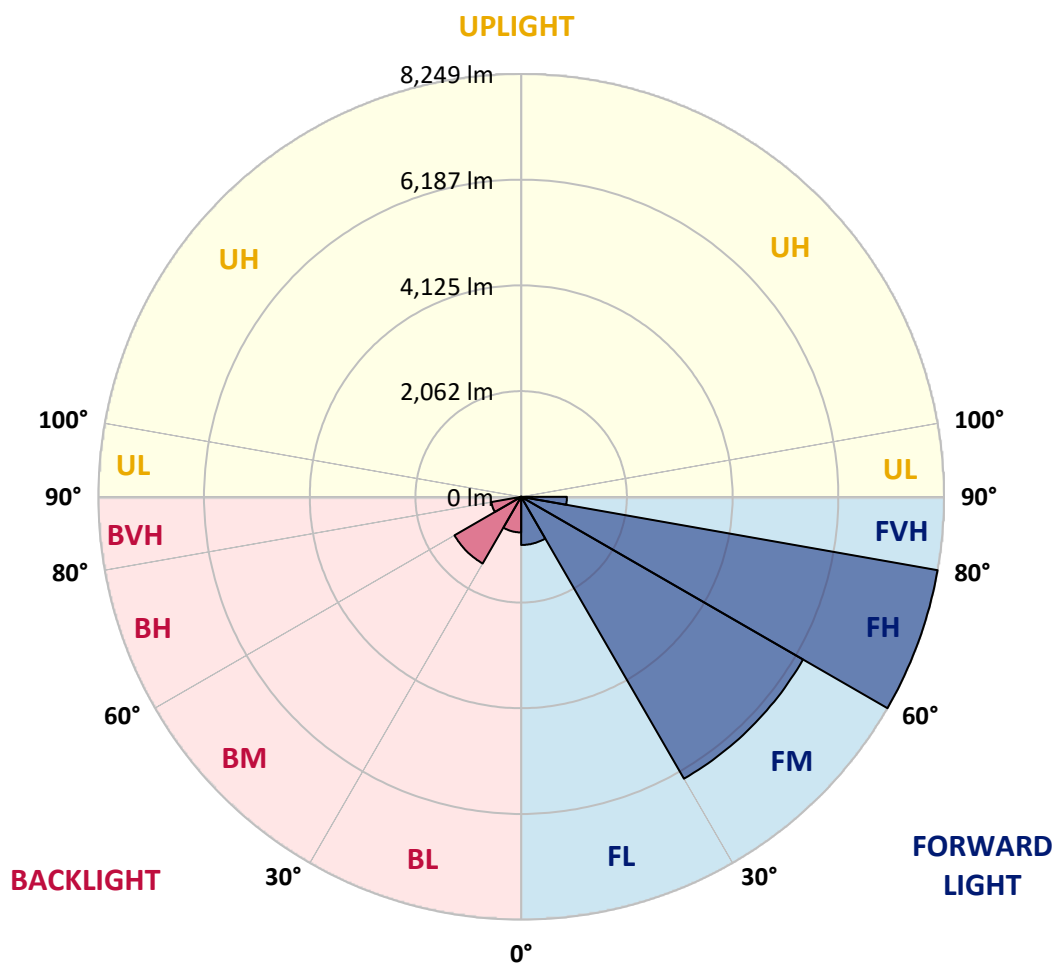
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	940.3	4.9			
FM	(30°-60°)	6350.0	33.0			
FH	(60°-80°)	8249.4	42.9			G4/12000
FVH	(80°-90°)	891.6	4.6			G5
BL	(0°-30°)	694.8	3.6	B2/1000		
BM	(30°-60°)	1501.8	7.8	B2/2500		
BH	(60°-80°)	591.3	3.1	B2/1000		G2/1000
BVH	(80°-90°)	16.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6
2.5°	1987.3	1990.4	1981.1	1959.2	1954.0	1956.2	1958.2	1945.8	1932.2	1925.9	1911.4
5°	2022.6	2023.7	2019.4	1999.7	1994.5	1994.5	1992.5	1977.9	1964.4	1956.2	1935.4
7.5°	2031.9	2030.9	2033.0	2012.2	2017.4	2008.1	2014.2	1999.7	1987.3	1975.9	1957.1
10°	2046.5	2048.6	2046.5	2029.8	2031.9	2034.1	2033.0	2022.6	2021.5	2020.5	1988.3
12.5°	2039.2	2038.2	2044.4	2034.1	2048.6	2050.6	2073.5	2078.7	2083.9	2083.9	2050.6
15°	2034.1	2022.6	2048.6	2040.2	2070.4	2073.5	2107.8	2139.0	2145.1	2147.3	2134.7
17.5°	2041.3	2039.2	2075.6	2060.0	2102.6	2095.3	2128.6	2183.6	2212.6	2227.3	2234.5
20°	2072.4	2080.8	2110.9	2095.3	2130.6	2130.6	2167.0	2226.2	2281.2	2317.6	2324.9
22.5°	2120.2	2123.4	2158.7	2143.1	2171.1	2174.3	2205.4	2275.1	2349.8	2411.1	2442.3
25°	2171.1	2169.1	2198.1	2199.2	2236.6	2245.9	2273.0	2329.0	2427.7	2507.7	2592.9
27.5°	2245.9	2241.8	2276.0	2265.6	2335.3	2334.2	2365.4	2431.8	2543.0	2647.9	2777.8
30°	2367.5	2357.1	2377.9	2394.5	2473.5	2476.6	2504.6	2570.0	2682.3	2834.9	2992.8
32.5°	2563.8	2572.2	2570.0	2549.3	2649.0	2655.3	2723.8	2829.7	2944.0	3127.9	3312.8
35°	2977.3	2976.2	2920.1	2867.1	2876.5	2895.2	2984.6	3175.7	3409.4	3843.6	4006.7
37.5°	3491.5	3516.4	3417.8	3265.0	3215.2	3212.0	3289.9	3573.6	3955.9	4794.1	4859.6
40°	4171.9	4125.1	4005.7	3770.9	3645.2	3609.9	3635.9	3969.3	4556.3	5604.4	5542.1
42.5°	4634.2	4655.0	4524.1	4323.5	4136.6	4109.6	4048.3	4404.6	5206.5	6250.7	6076.1
45°	5189.0	5230.5	5086.0	4943.8	4754.7	4738.1	4645.6	4853.4	5832.0	6729.5	6493.7
47.5°	5671.9	5701.1	5470.5	5337.4	5201.4	5187.9	5100.7	5306.3	6375.3	7123.2	6835.5
50°	6192.5	6216.3	5964.9	5775.8	5647.0	5634.5	5585.8	5814.3	6925.8	7495.1	7118.0
52.5°	6856.3	6766.9	6461.5	6203.8	6060.5	6043.9	6067.8	6321.2	7447.3	7763.1	7344.5
55°	7633.3	7390.2	6999.6	6677.6	6463.6	6475.0	6503.0	6836.5	7891.0	8022.8	7514.9
57.5°	8101.8	8115.3	7822.4	7347.7	6941.4	6918.6	6897.8	7304.0	8251.4	8310.6	7680.0
60°	8728.2	8770.8	8732.3	8439.5	7891.9	7794.3	7455.7	7825.5	8633.6	8543.3	7778.7
62.5°	9204.0	9273.6	9498.0	9317.3	9380.5	9422.1	8490.3	8449.8	8984.8	8702.2	7799.5
65°	9094.9	9161.4	9621.6	9976.8	10645.8	10734.1	10499.4	9244.4	9259.1	8772.9	7733.0
67.5°	8269.0	8337.6	8898.6	9855.4	11452.0	11551.7	11301.4	10624.0	9395.2	8776.0	7563.7
69°	7455.7	7632.2	8187.0	9505.3	11677.4	11733.5	11429.1	11000.1	9393.0	8763.6	7324.8
70°	6969.5	7110.8	7740.2	9101.1	11560.0	11587.0	11352.3	11151.7	9357.8	8654.4	7100.4
72.5°	5603.4	5572.2	6242.3	7715.3	10991.8	10975.2	11001.1	10948.1	9293.3	8255.6	6154.0
75°	4061.7	4073.2	4693.4	6070.9	9557.2	9678.7	10198.1	10512.9	8666.9	7200.1	4528.2
77.5°	2886.8	2910.8	3443.7	4647.7	7877.4	7934.5	8887.2	9221.7	7292.5	5664.7	2468.3
80°	1932.2	1953.0	2451.7	3427.1	6016.8	6146.7	7185.6	7260.3	5519.3	3506.0	446.6
82.5°	1208.2	1218.6	1605.0	2441.3	4390.1	4453.5	4934.4	4790.0	2869.3	781.1	133.0
85°	692.9	705.4	983.8	1545.8	2772.6	2796.5	3117.5	2369.5	687.7	104.9	72.7
87.5°	198.4	212.9	407.2	666.9	1250.8	1241.4	1163.5	776.0	111.2	47.8	34.2
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°	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6
2.5°	1900.0	1915.6	1896.9	1883.3	1867.8	1869.9	1869.9	1852.2	1852.2	1877.2	1880.3
5°	1923.9	1935.4	1903.2	1877.2	1843.9	1836.6	1815.8	1795.0	1787.8	1809.7	1812.7
7.5°	1945.8	1939.5	1901.0	1859.5	1815.8	1781.6	1755.6	1721.4	1705.7	1730.7	1734.8
10°	1967.5	1948.8	1909.4	1859.5	1789.9	1740.0	1701.6	1640.3	1623.7	1636.2	1642.4
12.5°	2027.8	2002.9	1957.1	1870.9	1792.0	1724.5	1649.6	1572.8	1533.3	1547.9	1556.1
15°	2117.2	2079.7	2031.9	1925.9	1816.9	1719.3	1617.4	1495.9	1424.2	1415.9	1418.0
17.5°	2223.0	2183.6	2120.2	1991.4	1852.2	1719.3	1568.7	1415.9	1297.5	1263.2	1267.3
20°	2330.1	2286.4	2235.5	2067.2	1885.5	1693.3	1508.3	1308.9	1139.6	1061.7	1061.7
22.5°	2452.7	2421.4	2336.3	2127.5	1896.9	1652.8	1415.9	1164.5	956.8	842.5	838.4
25°	2611.6	2583.5	2426.6	2175.3	1887.6	1601.8	1296.5	994.2	736.5	620.1	613.9
27.5°	2789.2	2734.2	2515.0	2210.6	1855.4	1519.8	1137.5	778.1	513.2	403.1	397.9
30°	2986.6	2906.7	2582.6	2204.4	1796.1	1381.7	950.5	522.5	299.2	226.5	226.5
32.5°	3270.2	3124.8	2662.5	2189.9	1714.1	1216.4	698.1	309.6	149.6	115.3	115.3
35°	3823.9	3550.7	2784.0	2150.3	1581.1	998.3	439.4	139.2	82.0	81.0	81.0
37.5°	4566.7	4100.2	2979.4	2092.2	1398.2	726.1	219.2	76.8	76.8	79.0	77.9
40°	5218.0	4692.4	3240.1	2003.8	1197.8	458.1	99.7	73.8	77.9	81.0	81.0
42.5°	5702.2	5149.4	3492.5	1875.1	956.8	233.7	83.1	71.6	74.8	75.8	76.8
45°	6112.4	5533.8	3694.1	1712.0	700.2	111.2	83.1	70.6	70.6	70.6	71.6
47.5°	6427.2	5815.4	3832.2	1519.8	435.3	93.5	87.2	69.6	65.4	63.4	64.4
50°	6673.4	6011.6	3881.0	1305.8	215.1	94.5	85.2	65.4	57.1	58.2	59.2
52.5°	6846.8	6170.6	3829.1	1038.8	111.2	99.7	86.2	63.4	50.9	54.1	54.1
55°	7008.0	6210.1	3697.1	738.6	99.7	100.8	86.2	58.2	43.7	49.8	53.0
57.5°	7048.4	6209.0	3490.5	464.3	107.0	95.6	82.0	57.1	41.5	49.8	51.9
60°	7108.6	6158.1	3206.8	283.6	112.2	88.3	76.8	54.1	39.4	41.5	43.7
62.5°	7043.2	6070.9	2781.9	188.0	108.0	82.0	74.8	51.9	34.2	31.2	30.1
65°	6915.4	5779.0	2099.4	151.7	100.8	80.0	67.5	45.7	28.1	19.7	18.7
67.5°	6617.3	5224.2	1110.5	143.4	94.5	79.0	60.2	42.6	22.9	11.4	10.4
69°	6266.2	4662.3	503.9	145.4	110.1	79.0	61.3	37.4	20.8	8.3	7.3
70°	5899.5	4149.1	229.6	141.3	119.5	83.1	60.2	34.2	18.7	7.3	6.3
72.5°	4550.0	2579.4	156.9	125.7	133.0	81.0	60.2	32.2	17.7	4.1	3.1
75°	2700.9	640.0	141.3	99.7	126.8	98.7	72.7	35.3	15.6	2.1	0.0
77.5°	700.2	178.7	119.5	75.8	112.2	111.2	84.2	35.3	15.6	0.0	0.0
80°	180.7	137.2	102.8	48.9	88.3	108.0	68.6	39.4	12.5	0.0	0.0
82.5°	108.0	99.7	112.2	30.1	70.6	72.7	40.5	28.1	13.5	0.0	0.0
85°	62.3	86.2	79.0	22.9	13.5	7.3	16.6	31.2	13.5	0.0	0.0
87.5°	36.4	46.7	17.7	3.1	3.1	2.1	1.1	4.1	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)