

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: P287045

Luminaire Tested: **USSL-C02-D-U-T4-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287045
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-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K 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: 19585.9 lumens
Efficiency: N/A
Efficacy: 128.0 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

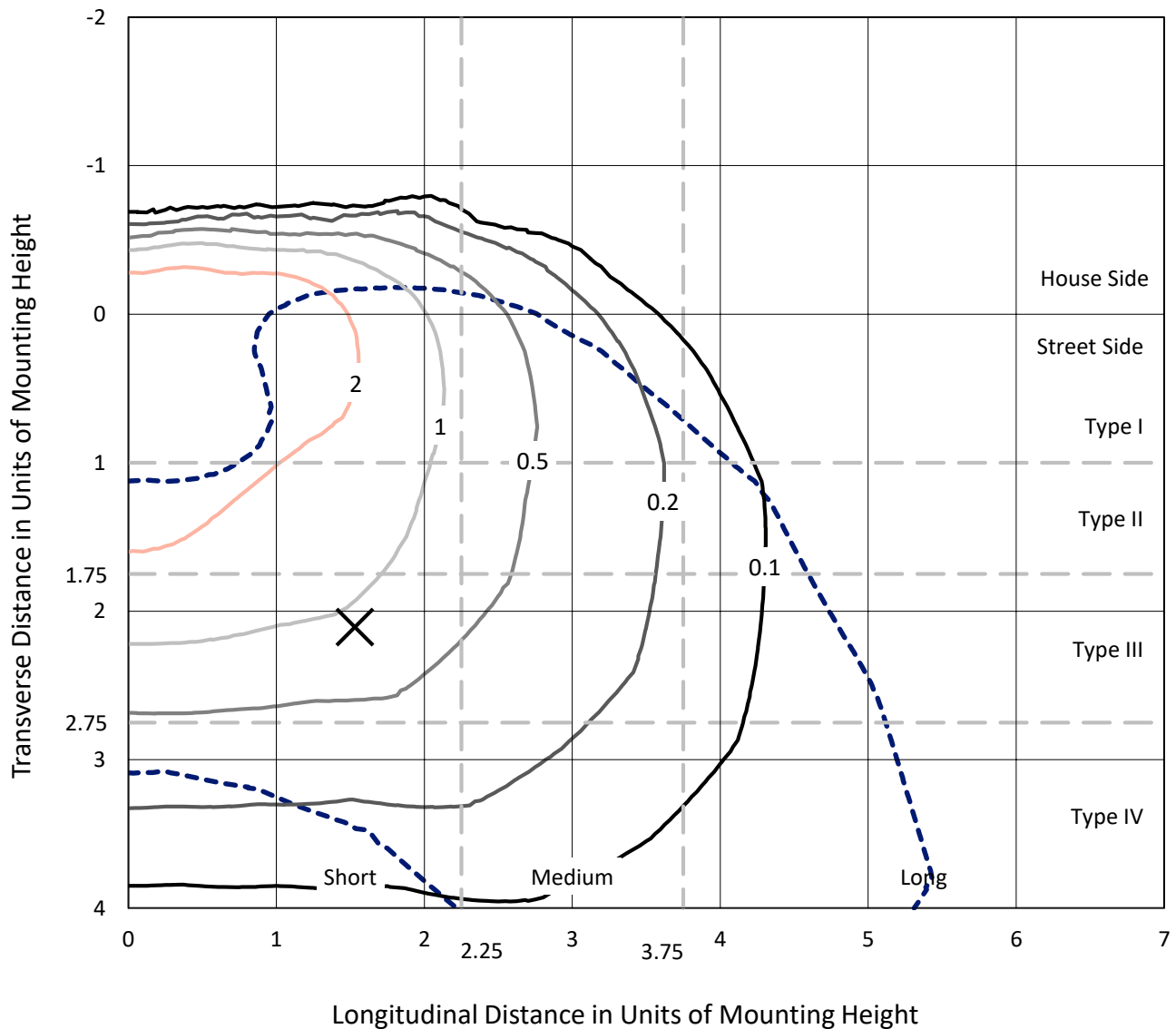


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

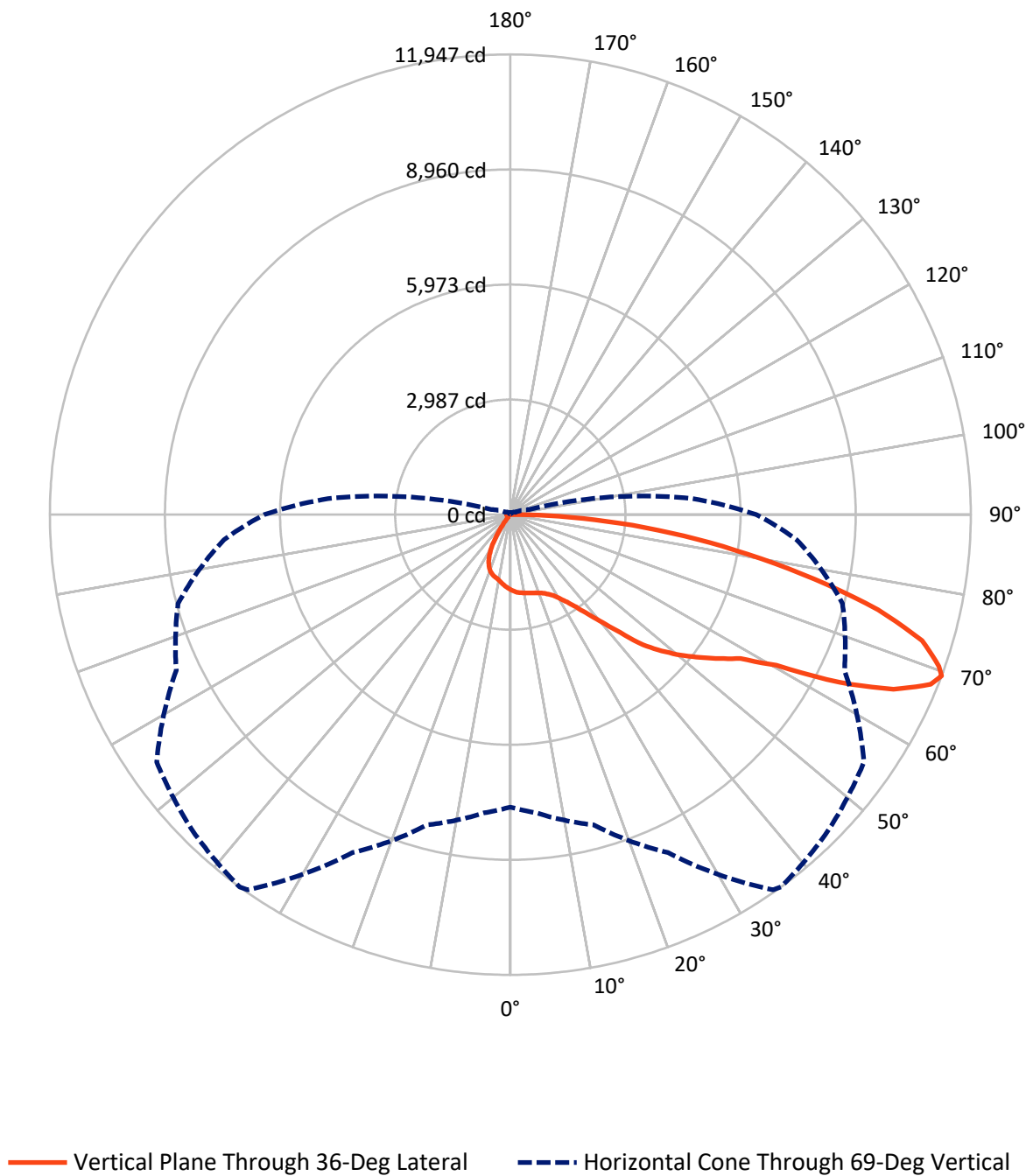


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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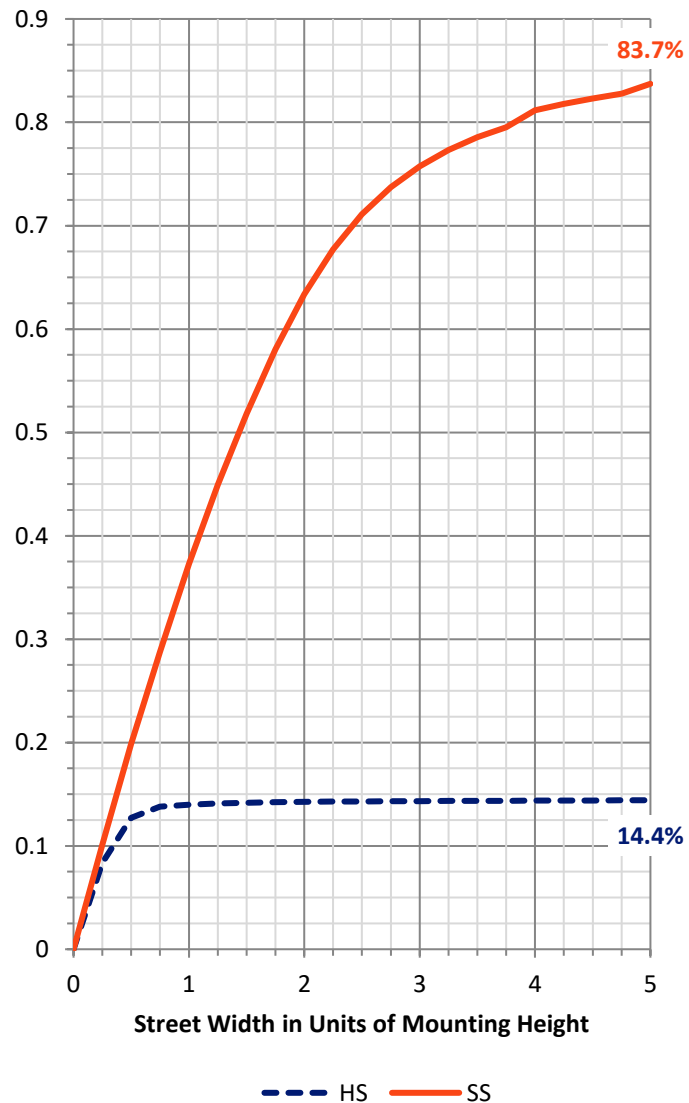
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2855.8	0.0	2855.8
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	16730.1	0.0	16730.1
	% Fixture	85.4	0.0	85.4
Total	Lumens	19585.9	0.0	19585.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	0.9
10°-20°	553.0	2.8
20°-30°	926.6	4.7
30°-40°	1498.6	7.7
40°-50°	2643.2	13.5
50°-60°	3852.8	19.7
60°-70°	5088.7	26.0
70°-80°	3912.7	20.0
80°-90°	925.0	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°	19585.9	100.0
0°-180°	19585.9	100.0

Coefficient of Utilization



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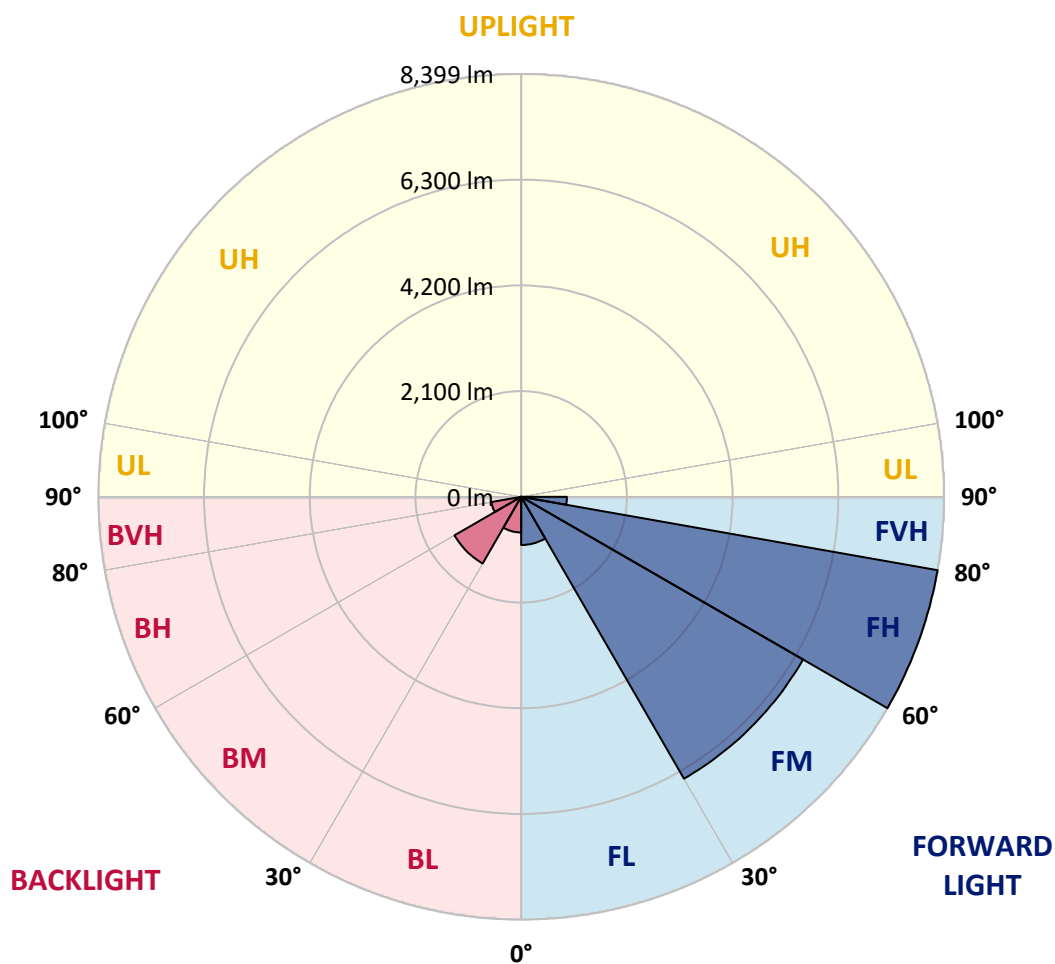
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	957.4	4.9			
FM	(30°-60°)	6465.4	33.0			
FH	(60°-80°)	8399.4	42.9			G4/12000
FVH	(80°-90°)	907.9	4.6			G5
BL	(0°-30°)	707.4	3.6	B2/1000		
BM	(30°-60°)	1529.2	7.8	B2/2500		
BH	(60°-80°)	602.0	3.1	B2/1000		G2/1000
BVH	(80°-90°)	17.2	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°	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5
2.5°	2023.5	2026.5	2017.1	1994.8	1989.5	1991.7	1993.8	1981.1	1967.4	1961.0	1946.2
5°	2059.4	2060.4	2056.2	2036.1	2030.8	2030.8	2028.6	2013.9	2000.1	1991.7	1970.6
7.5°	2068.9	2067.9	2070.0	2048.8	2054.1	2044.5	2050.9	2036.1	2023.5	2011.8	1992.7
10°	2083.7	2085.8	2083.7	2066.8	2068.9	2071.0	2070.0	2059.4	2058.3	2057.3	2024.4
12.5°	2076.2	2075.3	2081.5	2071.0	2085.8	2087.9	2111.2	2116.5	2121.8	2121.8	2087.9
15°	2071.0	2059.4	2085.8	2077.3	2108.0	2111.2	2146.1	2177.9	2184.1	2186.3	2173.6
17.5°	2078.4	2076.2	2113.3	2097.4	2140.8	2133.4	2167.3	2223.4	2252.9	2267.8	2275.2
20°	2110.2	2118.6	2149.3	2133.4	2169.4	2169.4	2206.4	2266.7	2322.8	2359.8	2367.2
22.5°	2158.8	2162.0	2197.9	2182.0	2210.6	2213.8	2245.5	2316.4	2392.5	2454.9	2486.6
25°	2210.6	2208.5	2238.1	2239.1	2277.3	2286.7	2314.3	2371.4	2471.9	2553.3	2640.0
27.5°	2286.7	2282.5	2317.5	2306.9	2377.8	2376.7	2408.4	2476.1	2589.2	2696.1	2828.3
30°	2410.5	2399.9	2421.1	2438.0	2518.4	2521.6	2550.1	2616.8	2731.0	2886.5	3047.3
32.5°	2610.4	2618.9	2616.8	2595.6	2697.1	2703.5	2773.3	2881.2	2997.6	3184.8	3373.0
35°	3031.4	3030.4	2973.2	2919.3	2928.8	2947.8	3038.8	3233.4	3471.4	3913.6	4079.6
37.5°	3555.0	3580.3	3479.9	3324.4	3273.6	3270.4	3349.8	3638.5	4027.7	4881.4	4947.9
40°	4247.8	4200.2	4078.5	3839.5	3711.6	3675.5	3702.0	4041.5	4639.1	5706.4	5642.9
42.5°	4718.5	4739.7	4606.3	4402.2	4211.8	4184.3	4122.0	4484.6	5301.3	6364.3	6186.5
45°	5283.3	5325.6	5178.6	5033.7	4841.2	4824.2	4730.1	4941.7	5938.0	6851.8	6611.8
47.5°	5775.1	5804.8	5569.9	5434.5	5296.0	5282.2	5193.4	5402.8	6491.1	7252.7	6959.7
50°	6305.0	6329.4	6073.3	5880.9	5749.7	5737.0	5687.3	5920.0	7051.7	7631.4	7247.5
52.5°	6980.9	6890.0	6579.0	6316.7	6170.7	6153.8	6178.1	6436.1	7582.7	7904.3	7478.0
55°	7772.0	7524.5	7126.9	6798.9	6581.1	6592.7	6621.3	6960.8	8034.4	8168.8	7651.5
57.5°	8249.1	8262.9	7964.6	7481.2	7067.6	7044.4	7023.2	7436.8	8401.4	8461.7	7819.6
60°	8886.9	8930.3	8891.2	8592.8	8035.4	7936.0	7591.2	7967.8	8790.6	8698.6	7920.1
62.5°	9371.3	9442.2	9670.6	9486.6	9551.2	9593.5	8644.7	8603.4	9148.2	8860.4	7941.3
65°	9260.2	9328.0	9796.5	10158.3	10839.5	10929.4	10690.3	9412.5	9427.4	8932.4	7873.6
67.5°	8419.4	8489.2	9060.3	10034.5	11660.2	11761.8	11506.8	10817.2	9565.9	8935.6	7701.2
69°	7591.2	7771.0	8335.8	9678.1	11889.7	11946.9	11637.0	11200.1	9563.8	8922.9	7457.9
70°	7096.2	7240.1	7881.0	9266.6	11770.2	11797.7	11558.6	11354.5	9527.9	8811.8	7229.5
72.5°	5705.3	5673.5	6355.8	7855.7	11191.7	11174.7	11201.1	11147.3	9462.3	8405.6	6265.9
75°	4135.6	4147.3	4778.8	6181.2	9730.9	9854.7	10383.5	10704.0	8824.5	7331.0	4610.6
77.5°	2939.4	2963.7	3506.4	4732.2	8020.7	8078.8	9048.7	9389.3	7425.1	5767.7	2513.1
80°	1967.4	1988.5	2496.2	3489.4	6126.2	6258.5	7316.2	7392.4	5619.6	3569.7	454.8
82.5°	1230.1	1240.7	1634.2	2485.7	4469.9	4534.5	5024.1	4877.1	2921.4	795.3	135.3
85°	705.5	718.2	1001.6	1573.8	2823.0	2847.3	3174.2	2412.7	700.2	106.8	74.1
87.5°	202.0	216.9	414.6	679.1	1273.5	1263.9	1184.7	790.2	113.2	48.6	34.9
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°	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5
2.5°	1934.5	1950.4	1931.3	1917.7	1901.8	1903.9	1903.9	1885.9	1885.9	1911.3	1914.5
5°	1958.9	1970.6	1937.7	1911.3	1877.4	1870.1	1848.9	1827.7	1820.3	1842.5	1845.7
7.5°	1981.1	1974.7	1935.6	1893.3	1848.9	1814.0	1787.5	1752.7	1736.8	1762.2	1766.4
10°	2003.3	1984.2	1944.1	1893.3	1822.4	1771.6	1732.5	1670.1	1653.2	1665.8	1672.2
12.5°	2064.7	2039.2	1992.7	1905.0	1824.5	1755.8	1679.6	1601.4	1561.2	1576.0	1584.4
15°	2155.6	2117.6	2068.9	1961.0	1849.9	1750.5	1646.9	1523.1	1450.2	1441.7	1443.8
17.5°	2263.5	2223.4	2158.8	2027.6	1885.9	1750.5	1597.2	1441.7	1321.1	1286.2	1290.4
20°	2372.5	2328.1	2276.2	2104.9	1919.8	1724.0	1535.8	1332.7	1160.3	1081.0	1081.0
22.5°	2497.2	2465.5	2378.8	2166.2	1931.3	1682.8	1441.7	1185.7	974.2	857.8	853.5
25°	2659.1	2630.6	2470.8	2214.9	1921.9	1631.0	1320.0	1012.2	749.9	631.5	625.1
27.5°	2840.0	2783.9	2560.7	2250.8	1889.1	1547.5	1158.2	792.3	522.5	410.4	405.1
30°	3041.0	2959.5	2629.5	2244.4	1828.8	1406.8	967.8	532.1	304.6	230.6	230.6
32.5°	3329.7	3181.6	2710.9	2229.6	1745.2	1238.6	710.8	315.2	152.3	117.4	117.4
35°	3893.4	3615.2	2834.7	2189.4	1609.9	1016.4	447.4	141.7	83.5	82.5	82.5
37.5°	4649.7	4174.8	3033.5	2130.2	1423.7	739.4	223.2	78.2	78.2	80.3	79.3
40°	5312.9	4777.7	3299.0	2040.3	1219.5	466.5	101.5	75.1	79.3	82.5	82.5
42.5°	5805.8	5243.1	3556.1	1909.2	974.2	237.9	84.6	73.0	76.2	77.2	78.2
45°	6223.6	5634.4	3761.3	1743.1	712.9	113.2	84.6	72.0	72.0	72.0	73.0
47.5°	6544.0	5921.0	3901.9	1547.5	443.1	95.2	88.8	70.9	66.7	64.5	65.6
50°	6794.7	6121.0	3951.6	1329.5	219.0	96.2	86.7	66.7	58.2	59.2	60.3
52.5°	6971.4	6282.8	3898.7	1057.7	113.2	101.5	87.8	64.5	51.8	55.0	55.0
55°	7135.4	6323.0	3764.4	752.0	101.5	102.6	87.8	59.2	44.4	50.8	53.9
57.5°	7176.6	6322.0	3554.0	472.8	109.0	97.3	83.5	58.2	42.3	50.8	52.9
60°	7238.0	6270.2	3265.1	288.7	114.3	89.9	78.2	55.0	40.2	42.3	44.4
62.5°	7171.3	6181.2	2832.6	191.4	110.0	83.5	76.2	52.9	34.9	31.7	30.6
65°	7041.2	5884.0	2137.6	154.4	102.6	81.4	68.8	46.5	28.5	20.1	19.1
67.5°	6737.7	5319.2	1130.7	145.9	96.2	80.3	61.4	43.3	23.3	11.7	10.6
69°	6380.2	4747.0	513.0	148.1	112.1	80.3	62.4	38.1	21.2	8.5	7.4
70°	6006.8	4224.5	233.7	143.8	121.7	84.6	61.4	34.9	19.1	7.4	6.4
72.5°	4632.8	2626.3	159.7	128.0	135.3	82.5	61.4	32.8	18.0	4.2	3.2
75°	2750.0	651.5	143.8	101.5	129.0	100.5	74.1	35.9	15.9	2.1	0.0
77.5°	712.9	181.9	121.7	77.2	114.3	113.2	85.6	35.9	15.9	0.0	0.0
80°	184.0	139.6	104.7	49.7	89.9	110.0	69.8	40.2	12.7	0.0	0.0
82.5°	110.0	101.5	114.3	30.6	72.0	74.1	41.2	28.5	13.8	0.0	0.0
85°	63.5	87.8	80.3	23.3	13.8	7.4	17.0	31.7	13.8	0.0	0.0
87.5°	37.0	47.6	18.0	3.2	3.2	2.1	1.1	4.2	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)