

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: P842778

Luminaire Tested: **ARCH4-90-750-U-T3-HSS**

Issue Date: 5/27/2024

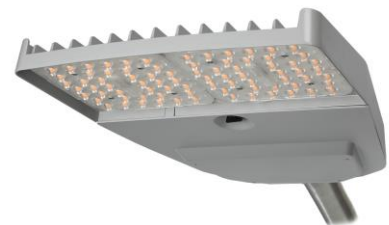
Test Information

Test Method: LM-79-08
Report Number: P842778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11396 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
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: 24 FT

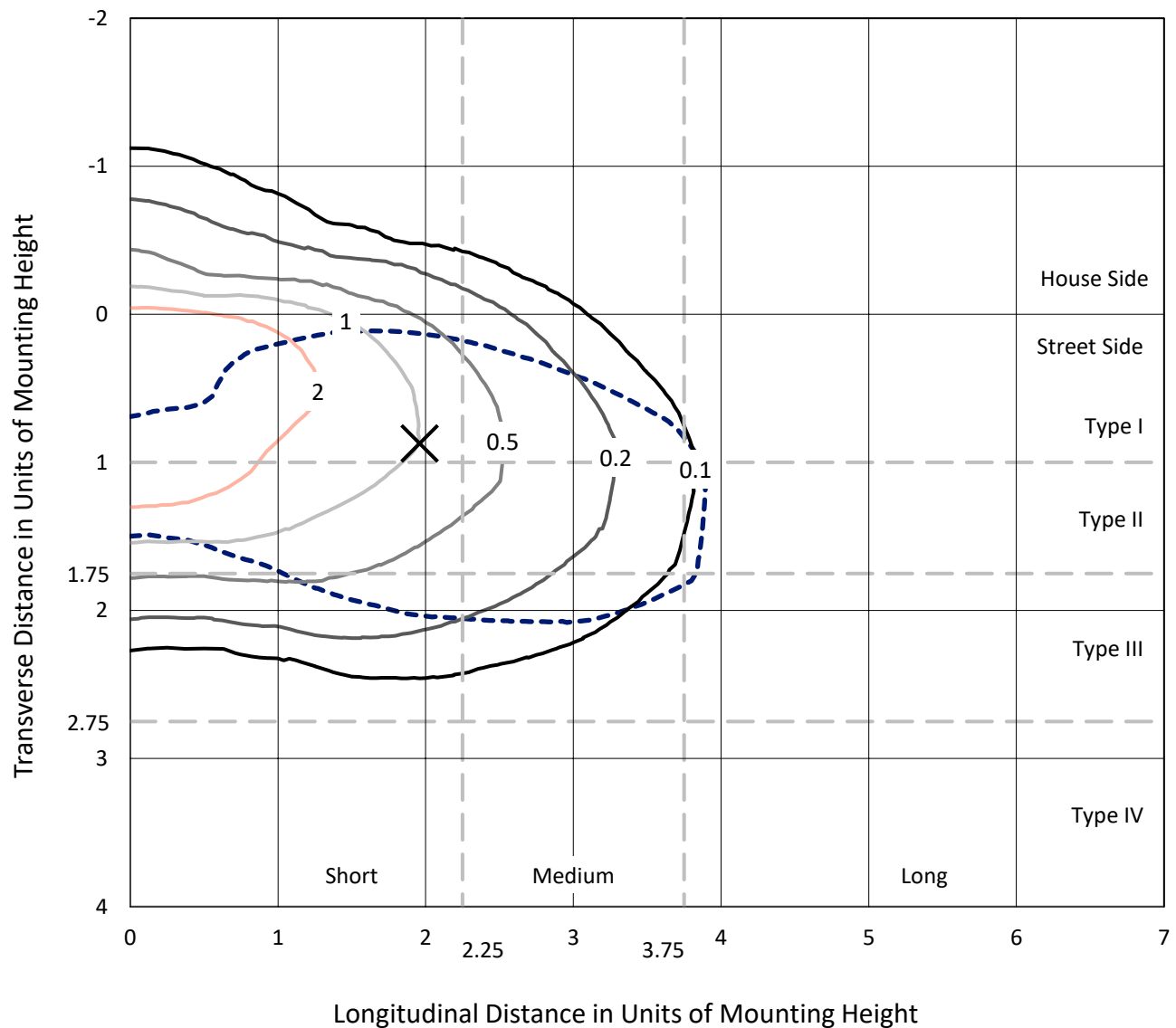


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

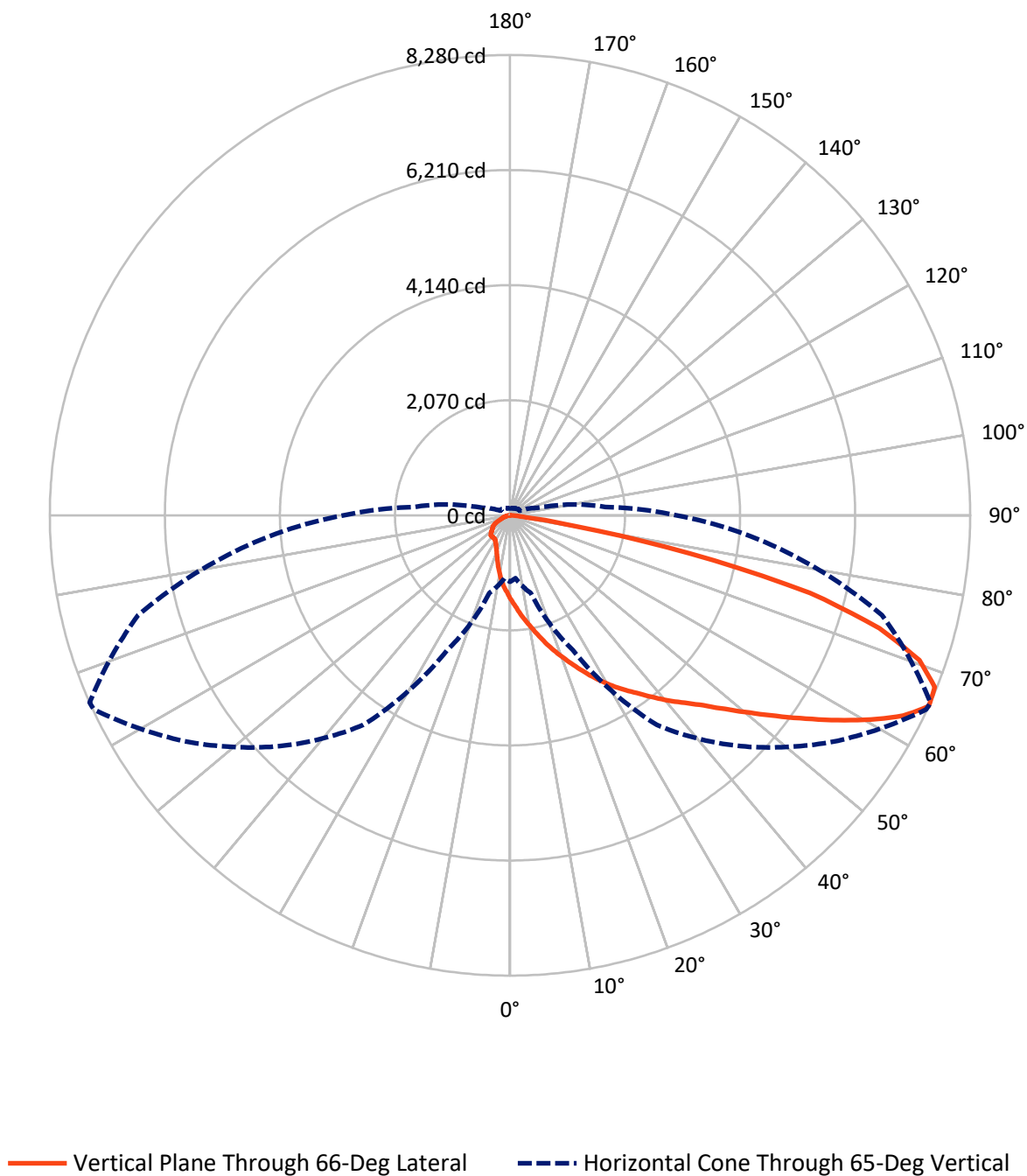


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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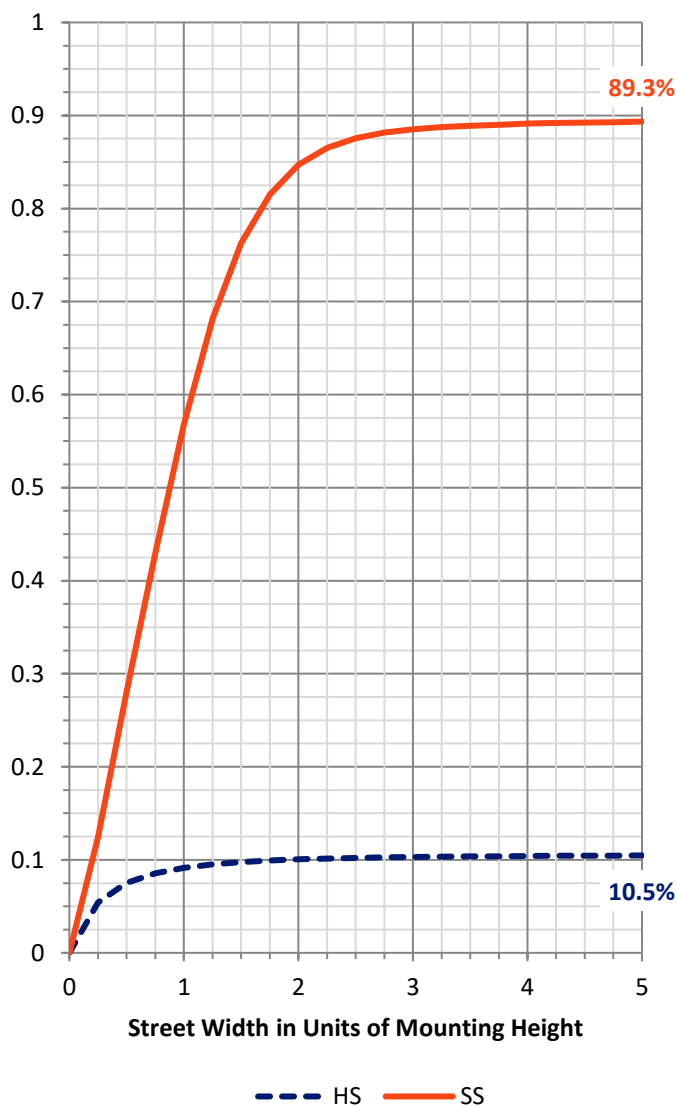
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1205.4	0.0	1205.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	10190.6	0.0	10190.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	11396.0	0.0	11396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.3
10°-20°	485.2	4.3
20°-30°	877.8	7.7
30°-40°	1372.7	12.0
40°-50°	2082.4	18.3
50°-60°	2645.7	23.2
60°-70°	2472.2	21.7
70°-80°	1228.6	10.8
80°-90°	82.6	0.7
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°	11396.0	100.0
0°-180°	11396.0	100.0

Coefficient of Utilization



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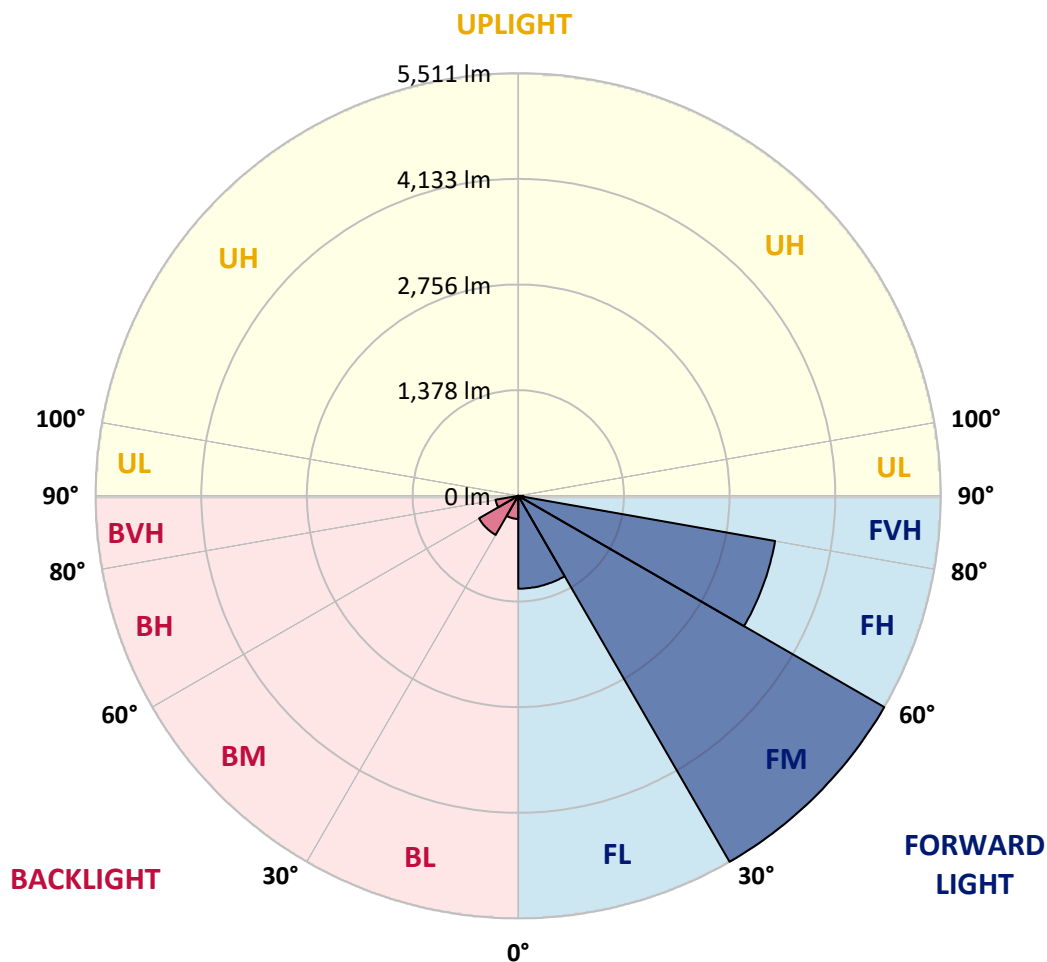
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1210.8	10.6			
FM	(30°-60°)	5511.2	48.4			
FH	(60°-80°)	3400.6	29.8			G2/5000
FVH	(80°-90°)	67.9	0.6			G1/100
BL	(0°-30°)	301.0	2.6	B1/500		
BM	(30°-60°)	589.6	5.2	B1/1000		
BH	(60°-80°)	300.2	2.6	B1/500		G1/500
BVH	(80°-90°)	14.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2
2.5°	1761.6	1775.9	1783.1	1785.5	1730.5	1706.6	1682.7	1627.7	1615.8	1584.7	1544.1
5°	2072.3	2091.4	2086.6	2077.1	2010.1	1933.6	1871.5	1768.7	1752.0	1677.9	1587.1
7.5°	2378.2	2395.0	2390.2	2354.3	2280.2	2172.7	2069.9	1919.3	1895.4	1775.9	1630.1
10°	2634.0	2648.3	2645.9	2610.1	2521.6	2390.2	2265.9	2065.1	2036.4	1866.7	1665.9
12.5°	2844.3	2863.4	2861.0	2837.1	2758.3	2614.8	2473.8	2232.4	2196.6	1976.7	1716.1
15°	3009.2	3033.1	3033.1	3023.6	2968.6	2849.1	2688.9	2416.5	2373.4	2103.4	1778.3
17.5°	3109.6	3128.7	3145.5	3162.2	3124.0	3033.1	2887.3	2600.5	2555.1	2227.6	1842.8
20°	3162.2	3181.3	3193.3	3229.1	3236.3	3190.9	3076.2	2782.2	2734.4	2368.7	1916.9
22.5°	3248.2	3265.0	3267.4	3298.4	3312.8	3324.7	3253.0	2961.4	2923.2	2524.0	2000.6
25°	3391.7	3410.8	3403.6	3417.9	3420.3	3434.7	3427.5	3167.0	3128.7	2700.9	2101.0
27.5°	3575.7	3599.6	3594.8	3580.5	3559.0	3547.0	3578.1	3374.9	3339.1	2877.8	2203.7
30°	3774.1	3802.8	3795.6	3766.9	3709.5	3659.4	3702.4	3570.9	3537.5	3059.4	2318.5
32.5°	3974.9	4008.3	4005.9	3958.1	3860.1	3774.1	3838.6	3755.0	3731.1	3255.4	2442.8
35°	4106.3	4149.3	4144.6	4115.9	3989.2	3915.1	3994.0	3943.8	3927.1	3494.4	2622.0
37.5°	4319.0	4364.5	4323.8	4252.1	4106.3	4068.1	4163.7	4156.5	4144.6	3747.8	2810.8
40°	4835.3	4902.2	4794.7	4500.7	4261.7	4228.2	4364.5	4393.1	4381.2	3998.8	2980.5
42.5°	5375.5	5475.9	5308.6	4902.2	4543.7	4421.8	4584.3	4625.0	4610.6	4213.9	3133.5
45°	5702.9	5746.0	5578.7	5263.2	5043.3	4656.1	4818.6	4885.5	4873.6	4472.0	3329.5
47.5°	5970.6	5953.9	5762.7	5550.0	5590.6	4985.9	5083.9	5215.4	5205.8	4756.4	3544.6
50°	6028.0	5989.8	5913.3	5779.4	5887.0	5320.5	5363.5	5590.6	5581.0	5071.9	3762.1
52.5°	5624.1	5573.9	5781.8	5894.2	5858.3	5564.3	5671.9	6001.7	5996.9	5413.7	3970.1
55°	4615.4	4574.8	5134.1	5714.9	5827.2	5736.4	6013.7	6429.6	6455.9	5777.0	4158.9
57.5°	3630.7	3587.6	4137.4	5265.5	5712.5	5894.2	6412.8	6919.5	6953.0	6171.4	4338.2
60°	2894.5	2830.0	3250.6	4558.1	5497.4	6016.1	6797.6	7457.3	7462.1	6532.3	4448.1
62.5°	1967.1	1895.4	2361.5	3661.7	5136.5	6035.2	7094.0	7921.0	7940.1	6802.4	4467.2
65°	1195.1	1135.3	1450.8	2674.6	4603.5	5872.7	7098.8	8262.8	8279.6	6926.7	4352.5
67.5°	693.1	669.2	829.4	1665.9	3719.1	5435.2	6800.0	8210.2	8241.3	6874.1	4092.0
70°	403.9	401.5	461.3	824.6	2624.4	4567.6	6133.2	7768.1	7813.5	6599.3	3692.8
72.5°	296.4	301.2	325.1	442.2	1520.1	3288.9	5193.8	6878.9	6948.2	6061.5	3124.0
75°	234.2	236.6	258.1	301.2	798.3	1859.6	3891.2	5521.3	5576.3	5103.0	2440.4
77.5°	174.5	179.3	196.0	212.7	370.5	853.3	2189.4	3401.2	3310.4	2801.3	1178.4
80°	126.7	138.6	145.8	153.0	196.0	329.8	657.3	1185.5	1176.0	1223.8	556.9
82.5°	81.3	90.8	98.0	102.8	117.1	157.8	196.0	265.3	286.8	475.6	222.3
85°	35.9	40.6	45.4	55.0	50.2	55.0	81.3	52.6	45.4	71.7	40.6
87.5°	0.0	0.0	7.2	12.0	9.6	4.8	14.3	9.6	7.2	7.2	7.2
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°	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2	1508.2
2.5°	1522.5	1496.2	1441.3	1388.7	1357.6	1317.0	1281.1	1247.7	1245.3	1235.7	1219.0
5°	1541.7	1491.5	1388.7	1290.7	1216.6	1137.7	1070.8	1018.2	999.1	984.8	965.6
7.5°	1560.8	1481.9	1328.9	1185.5	1068.4	958.5	879.6	807.9	786.4	767.2	755.3
10°	1568.0	1465.2	1259.6	1068.4	915.4	798.3	714.7	662.1	643.0	633.4	626.2
12.5°	1589.5	1455.6	1195.1	958.5	781.6	674.0	614.3	583.2	576.0	568.9	561.7
15°	1618.1	1455.6	1130.6	850.9	676.4	590.4	554.5	533.0	528.2	525.8	521.1
17.5°	1649.2	1455.6	1068.4	760.1	599.9	535.4	509.1	497.2	494.8	492.4	490.0
20°	1692.2	1458.0	1001.5	681.2	545.0	494.8	473.3	458.9	456.5	454.1	454.1
22.5°	1735.3	1462.8	936.9	621.4	509.1	463.7	437.4	423.1	418.3	418.3	418.3
25°	1790.2	1477.1	877.2	571.3	478.0	435.0	401.5	389.6	387.2	387.2	384.8
27.5°	1854.8	1493.9	824.6	533.0	447.0	401.5	368.1	356.1	351.4	351.4	349.0
30°	1924.1	1510.6	781.6	504.3	415.9	368.1	337.0	322.7	317.9	320.3	317.9
32.5°	2000.6	1534.5	748.1	485.2	387.2	339.4	310.7	294.0	291.6	291.6	289.2
35°	2129.6	1601.4	743.3	475.6	363.3	317.9	289.2	272.5	270.1	270.1	267.7
37.5°	2268.3	1677.9	764.9	470.9	344.2	298.8	272.5	255.7	253.4	253.4	253.4
40°	2385.4	1735.3	788.8	470.9	332.2	282.0	258.1	243.8	243.8	243.8	243.8
42.5°	2464.3	1740.0	784.0	470.9	322.7	270.1	248.6	234.2	234.2	236.6	234.2
45°	2581.4	1763.9	764.9	463.7	315.5	260.5	239.0	227.1	224.7	227.1	227.1
47.5°	2720.0	1807.0	745.7	435.0	313.1	251.0	231.8	217.5	215.1	217.5	215.1
50°	2851.5	1845.2	736.2	396.8	308.3	241.4	222.3	207.9	205.6	207.9	205.6
52.5°	2961.4	1861.9	719.4	370.5	296.4	231.8	212.7	198.4	193.6	196.0	196.0
55°	3049.9	1857.2	695.5	349.0	274.9	222.3	200.8	188.8	181.7	181.7	179.3
57.5°	3131.1	1859.6	674.0	327.5	251.0	207.9	191.2	176.9	167.3	164.9	162.5
60°	3162.2	1847.6	635.8	298.8	227.1	196.0	179.3	162.5	153.0	150.6	148.2
62.5°	3119.2	1804.6	585.6	248.6	205.6	181.7	167.3	150.6	141.0	138.6	136.2
65°	2997.3	1723.3	509.1	196.0	186.4	164.9	153.0	141.0	129.1	124.3	121.9
67.5°	2789.3	1606.2	413.5	157.8	164.9	150.6	143.4	129.1	114.7	109.9	107.6
70°	2492.9	1450.8	310.7	133.8	145.8	133.8	129.1	114.7	102.8	98.0	95.6
72.5°	2077.1	1199.9	217.5	114.7	126.7	117.1	112.3	102.8	90.8	83.7	83.7
75°	1570.3	860.5	143.4	98.0	105.2	100.4	93.2	86.0	78.9	74.1	71.7
77.5°	676.4	334.6	88.4	74.1	86.0	83.7	74.1	69.3	66.9	62.1	62.1
80°	291.6	136.2	55.0	55.0	62.1	59.8	57.4	52.6	52.6	50.2	47.8
82.5°	107.6	55.0	33.5	40.6	45.4	40.6	40.6	40.6	40.6	38.2	38.2
85°	26.3	16.7	16.7	23.9	26.3	23.9	26.3	23.9	23.9	23.9	21.5
87.5°	7.2	7.2	9.6	9.6	9.6	9.6	9.6	7.2	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)