

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: P835896

Luminaire Tested: **ARCH3-110-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11715 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 111.9
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



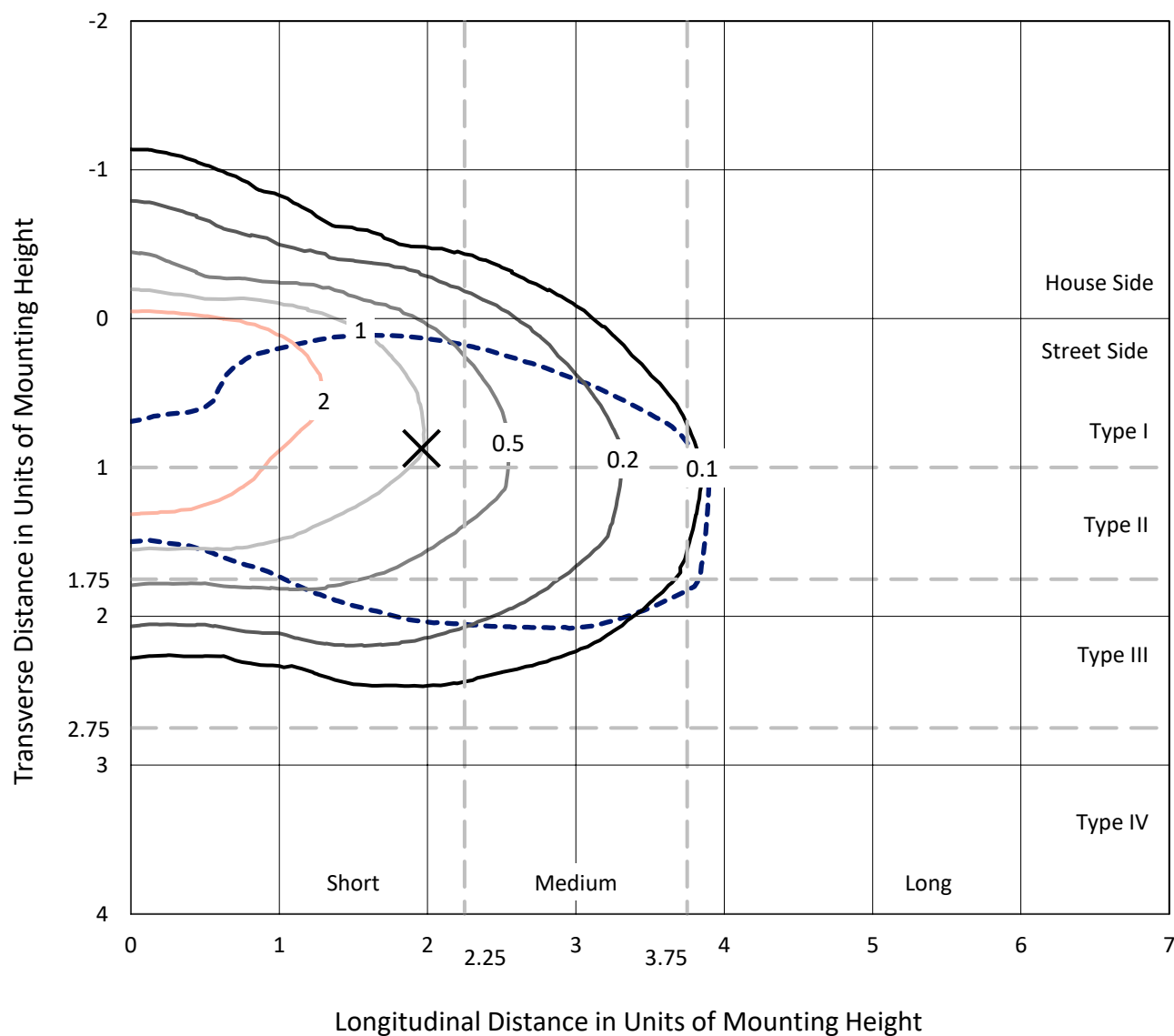
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

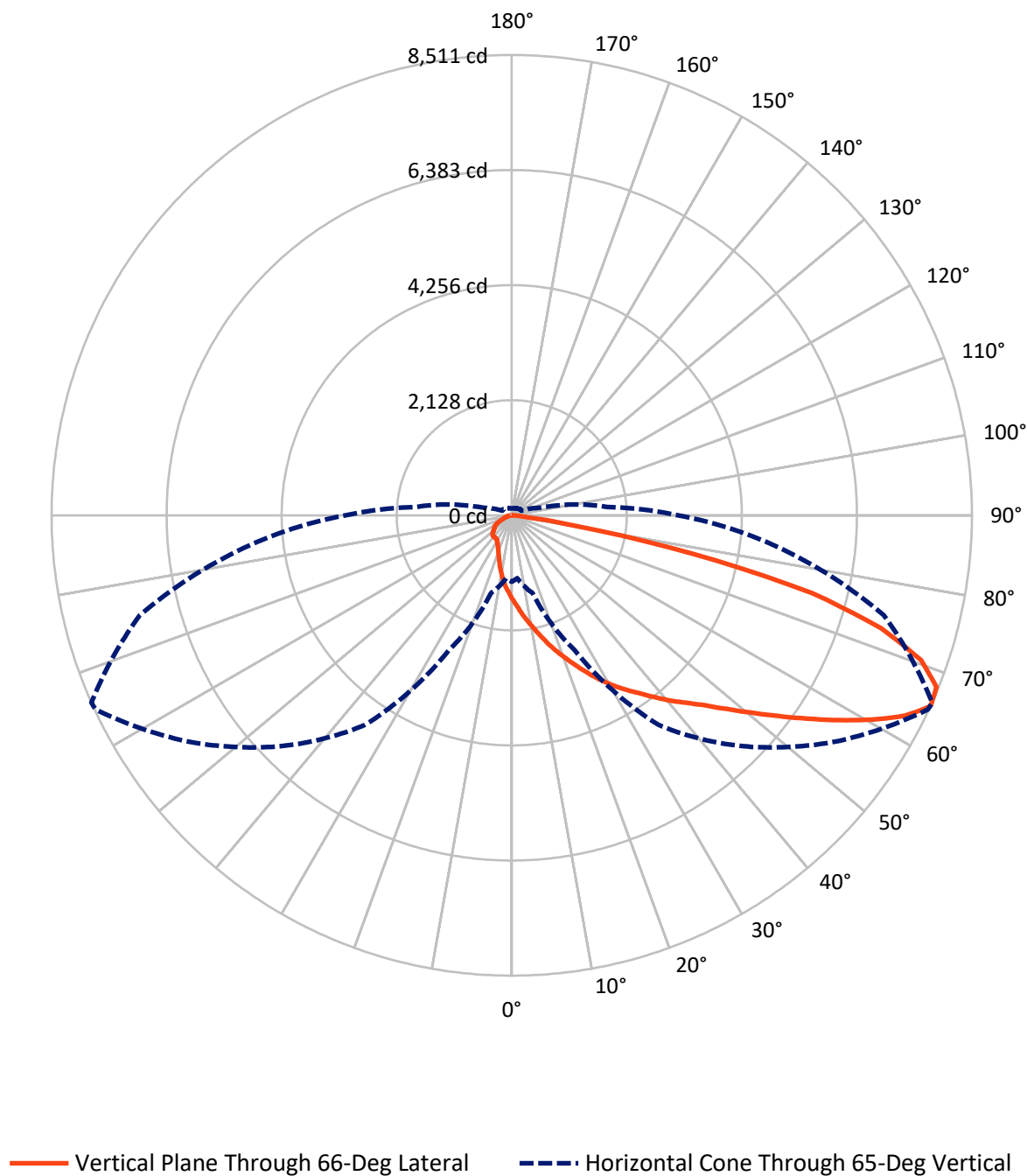


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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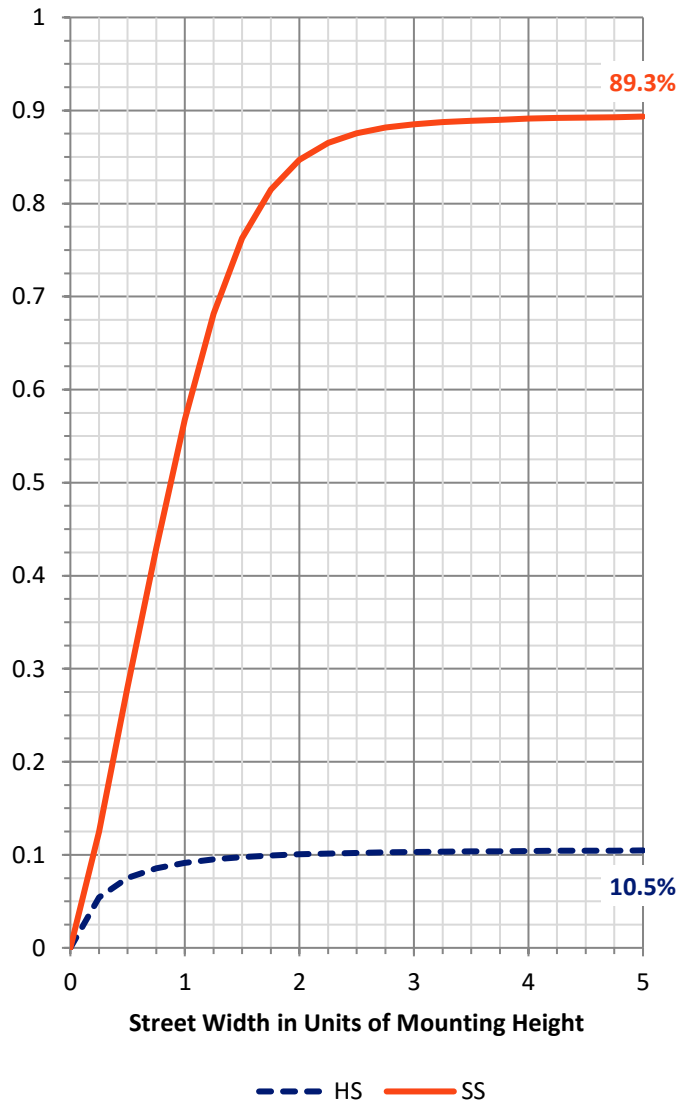
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1239.1	0.0	1239.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	10475.9	0.0	10475.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	11715.0	0.0	11715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	1.3
10°-20°	498.8	4.3
20°-30°	902.4	7.7
30°-40°	1411.1	12.0
40°-50°	2140.7	18.3
50°-60°	2719.8	23.2
60°-70°	2541.4	21.7
70°-80°	1263.0	10.8
80°-90°	84.9	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°	11715.0	100.0
0°-180°	11715.0	100.0

Coefficient of Utilization



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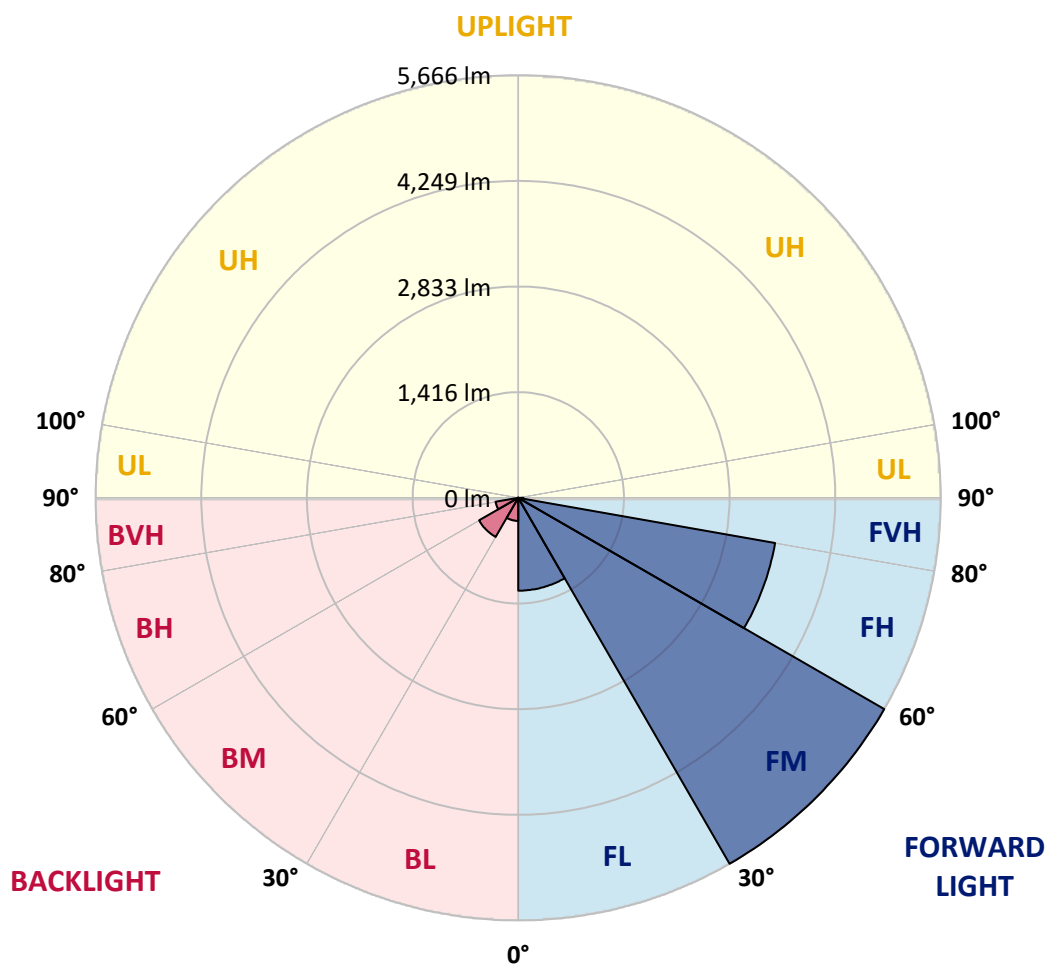
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.7	10.6			
FM	(30°-60°)	5665.5	48.4			
FH	(60°-80°)	3495.8	29.8			G2/5000
FVH	(80°-90°)	69.8	0.6			G1/100
BL	(0°-30°)	309.5	2.6	B1/500		
BM	(30°-60°)	606.1	5.2	B1/1000		
BH	(60°-80°)	308.6	2.6	B1/500		G1/500
BVH	(80°-90°)	15.0	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°	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4
2.5°	1810.9	1825.6	1833.0	1835.4	1778.9	1754.4	1729.8	1673.3	1661.0	1629.0	1587.3
5°	2130.3	2149.9	2145.0	2135.2	2066.4	1987.8	1923.9	1818.2	1801.0	1724.9	1631.5
7.5°	2444.8	2462.0	2457.1	2420.2	2344.1	2233.5	2127.8	1973.0	1948.5	1825.6	1675.7
10°	2707.7	2722.4	2720.0	2683.1	2592.2	2457.1	2329.3	2122.9	2093.4	1919.0	1712.6
12.5°	2923.9	2943.6	2941.1	2916.6	2835.5	2688.0	2543.1	2294.9	2258.1	2032.0	1764.2
15°	3093.5	3118.0	3118.0	3108.2	3051.7	2928.8	2764.2	2484.1	2439.9	2162.2	1828.1
17.5°	3196.7	3216.3	3233.5	3250.7	3211.4	3118.0	2968.1	2673.3	2626.6	2290.0	1894.4
20°	3250.7	3270.4	3282.7	3319.5	3326.9	3280.2	3162.3	2860.0	2810.9	2435.0	1970.6
22.5°	3339.2	3356.4	3358.8	3390.8	3405.5	3417.8	3344.1	3044.3	3005.0	2594.7	2056.6
25°	3486.6	3506.2	3498.9	3513.6	3516.1	3530.8	3523.4	3255.6	3216.3	2776.5	2159.8
27.5°	3675.8	3700.4	3695.4	3680.7	3658.6	3646.3	3678.2	3469.4	3432.5	2958.3	2265.4
30°	3879.7	3909.2	3901.8	3872.4	3813.4	3761.8	3806.0	3670.9	3636.5	3145.1	2383.4
32.5°	4086.1	4120.5	4118.1	4068.9	3968.2	3879.7	3946.1	3860.1	3835.5	3346.5	2511.1
35°	4221.3	4265.5	4260.6	4231.1	4100.9	4024.7	4105.8	4054.2	4037.0	3592.2	2695.4
37.5°	4439.9	4486.6	4444.9	4371.1	4221.3	4181.9	4280.2	4272.9	4260.6	3852.7	2889.5
40°	4970.7	5039.5	4928.9	4626.7	4381.0	4346.6	4486.6	4516.1	4503.8	4110.7	3064.0
42.5°	5526.0	5629.2	5457.2	5039.5	4670.9	4545.6	4712.7	4754.4	4739.7	4331.8	3221.2
45°	5862.6	5906.8	5734.8	5410.5	5184.4	4786.4	4953.5	5022.3	5010.0	4597.2	3422.7
47.5°	6137.8	6120.6	5924.0	5705.3	5747.1	5125.5	5226.2	5361.3	5351.5	4889.6	3643.8
50°	6196.7	6157.4	6078.8	5941.2	6051.8	5469.5	5513.7	5747.1	5737.3	5213.9	3867.4
52.5°	5781.5	5729.9	5943.7	6059.2	6022.3	5720.1	5830.6	6169.7	6164.8	5565.3	4081.2
55°	4744.6	4702.8	5277.8	5874.9	5990.4	5897.0	6182.0	6609.5	6636.6	5938.8	4275.3
57.5°	3732.3	3688.1	4253.2	5412.9	5872.4	6059.2	6592.3	7113.2	7147.6	6344.2	4459.6
60°	2975.5	2909.2	3341.6	4685.6	5651.3	6184.5	6987.9	7666.1	7671.0	6715.2	4572.6
62.5°	2022.2	1948.5	2427.6	3764.2	5280.3	6204.1	7292.6	8142.8	8162.4	6992.8	4592.3
65°	1228.5	1167.1	1491.4	2749.5	4732.3	6037.0	7297.5	8494.1	8511.3	7120.6	4474.3
67.5°	712.6	688.0	852.6	1712.6	3823.2	5587.4	6990.4	8440.1	8472.0	7066.6	4206.5
70°	415.2	412.8	474.2	847.7	2697.9	4695.5	6304.9	7985.5	8032.2	6784.0	3796.2
72.5°	304.7	309.6	334.2	454.6	1562.7	3380.9	5339.2	7071.5	7142.7	6231.1	3211.4
75°	240.8	243.3	265.4	309.6	820.7	1911.6	4000.1	5675.8	5732.4	5245.9	2508.7
77.5°	179.4	184.3	201.5	218.7	380.8	877.2	2250.7	3496.4	3403.1	2879.7	1211.3
80°	130.2	142.5	149.9	157.3	201.5	339.1	675.7	1218.7	1208.9	1258.0	572.5
82.5°	83.5	93.4	100.7	105.7	120.4	162.2	201.5	272.7	294.8	489.0	228.5
85°	36.9	41.8	46.7	56.5	51.6	56.5	83.5	54.1	46.7	73.7	41.8
87.5°	0.0	0.0	7.4	12.3	9.8	4.9	14.7	9.8	7.4	7.4	7.4
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°	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4
2.5°	1565.2	1538.1	1481.6	1427.6	1395.6	1353.8	1317.0	1282.6	1280.1	1270.3	1253.1
5°	1584.8	1533.2	1427.6	1326.8	1250.7	1169.6	1100.8	1046.7	1027.1	1012.3	992.7
7.5°	1604.5	1523.4	1366.1	1218.7	1098.3	985.3	904.2	830.5	808.4	788.7	776.4
10°	1611.8	1506.2	1294.9	1098.3	941.1	820.7	734.7	680.6	661.0	651.1	643.8
12.5°	1634.0	1496.4	1228.5	985.3	803.5	692.9	631.5	599.5	592.2	584.8	577.4
15°	1663.4	1496.4	1162.2	874.7	695.4	606.9	570.0	547.9	543.0	540.6	535.6
17.5°	1695.4	1496.4	1098.3	781.4	616.7	550.4	523.4	511.1	508.6	506.2	503.7
20°	1739.6	1498.8	1029.5	700.3	560.2	508.6	486.5	471.8	469.3	466.8	466.8
22.5°	1783.8	1503.7	963.2	638.8	523.4	476.7	449.6	434.9	430.0	430.0	430.0
25°	1840.4	1518.5	901.7	587.2	491.4	447.2	412.8	400.5	398.0	398.0	395.6
27.5°	1906.7	1535.7	847.7	547.9	459.5	412.8	378.4	366.1	361.2	361.2	358.7
30°	1977.9	1552.9	803.5	518.4	427.5	378.4	346.4	331.7	326.8	329.2	326.8
32.5°	2056.6	1577.4	769.1	498.8	398.0	348.9	319.4	302.2	299.8	299.8	297.3
35°	2189.3	1646.2	764.2	489.0	373.5	326.8	297.3	280.1	277.6	277.6	275.2
37.5°	2331.8	1724.9	786.3	484.0	353.8	307.1	280.1	262.9	260.5	260.5	260.5
40°	2452.2	1783.8	810.8	484.0	341.5	289.9	265.4	250.6	250.6	250.6	250.6
42.5°	2533.2	1788.8	805.9	484.0	331.7	277.6	255.5	240.8	240.8	243.3	240.8
45°	2653.6	1813.3	786.3	476.7	324.3	267.8	245.7	233.4	231.0	233.4	233.4
47.5°	2796.2	1857.6	766.6	447.2	321.9	258.0	238.3	223.6	221.1	223.6	221.1
50°	2931.3	1896.9	756.8	407.9	317.0	248.2	228.5	213.8	211.3	213.8	211.3
52.5°	3044.3	1914.1	739.6	380.8	304.7	238.3	218.7	203.9	199.0	201.5	201.5
55°	3135.2	1909.1	715.0	358.7	282.6	228.5	206.4	194.1	186.7	186.7	184.3
57.5°	3218.8	1911.6	692.9	336.6	258.0	213.8	196.6	181.8	172.0	169.5	167.1
60°	3250.7	1899.3	653.6	307.1	233.4	201.5	184.3	167.1	157.3	154.8	152.3
62.5°	3206.5	1855.1	602.0	255.5	211.3	186.7	172.0	154.8	145.0	142.5	140.1
65°	3081.2	1771.6	523.4	201.5	191.7	169.5	157.3	145.0	132.7	127.8	125.3
67.5°	2867.4	1651.2	425.1	162.2	169.5	154.8	147.4	132.7	117.9	113.0	110.6
70°	2562.7	1491.4	319.4	137.6	149.9	137.6	132.7	117.9	105.7	100.7	98.3
72.5°	2135.2	1233.5	223.6	117.9	130.2	120.4	115.5	105.7	93.4	86.0	86.0
75°	1614.3	884.5	147.4	100.7	108.1	103.2	95.8	88.5	81.1	76.2	73.7
77.5°	695.4	344.0	90.9	76.2	88.5	86.0	76.2	71.3	68.8	63.9	63.9
80°	299.8	140.1	56.5	56.5	63.9	61.4	59.0	54.1	54.1	51.6	49.1
82.5°	110.6	56.5	34.4	41.8	46.7	41.8	41.8	41.8	41.8	39.3	39.3
85°	27.0	17.2	17.2	24.6	27.0	24.6	27.0	24.6	24.6	24.6	22.1
87.5°	7.4	7.4	9.8	9.8	9.8	9.8	9.8	7.4	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)