

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: P841289

Luminaire Tested: **ARCH4-160-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15830 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

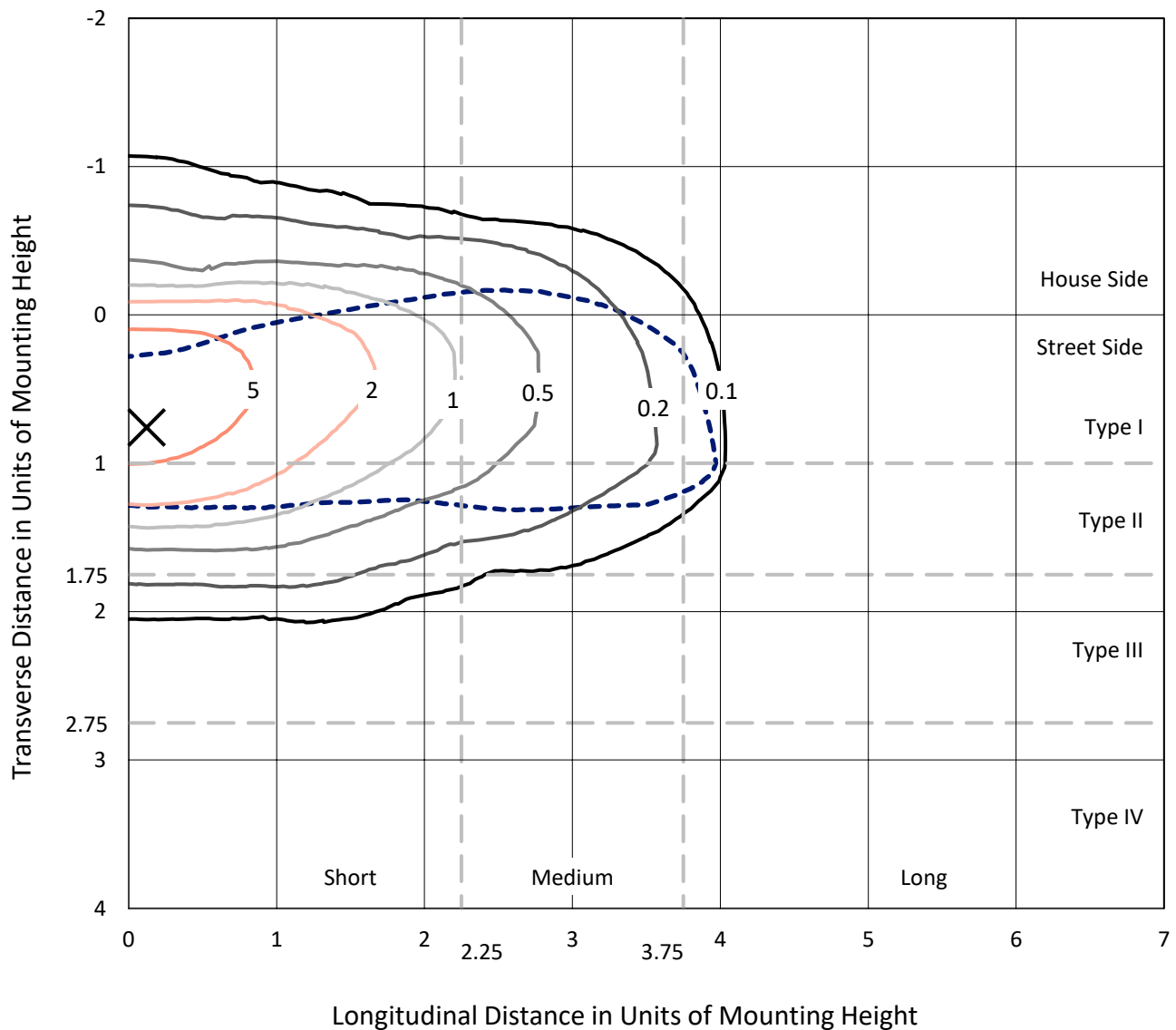
Input Watts (W): 160.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

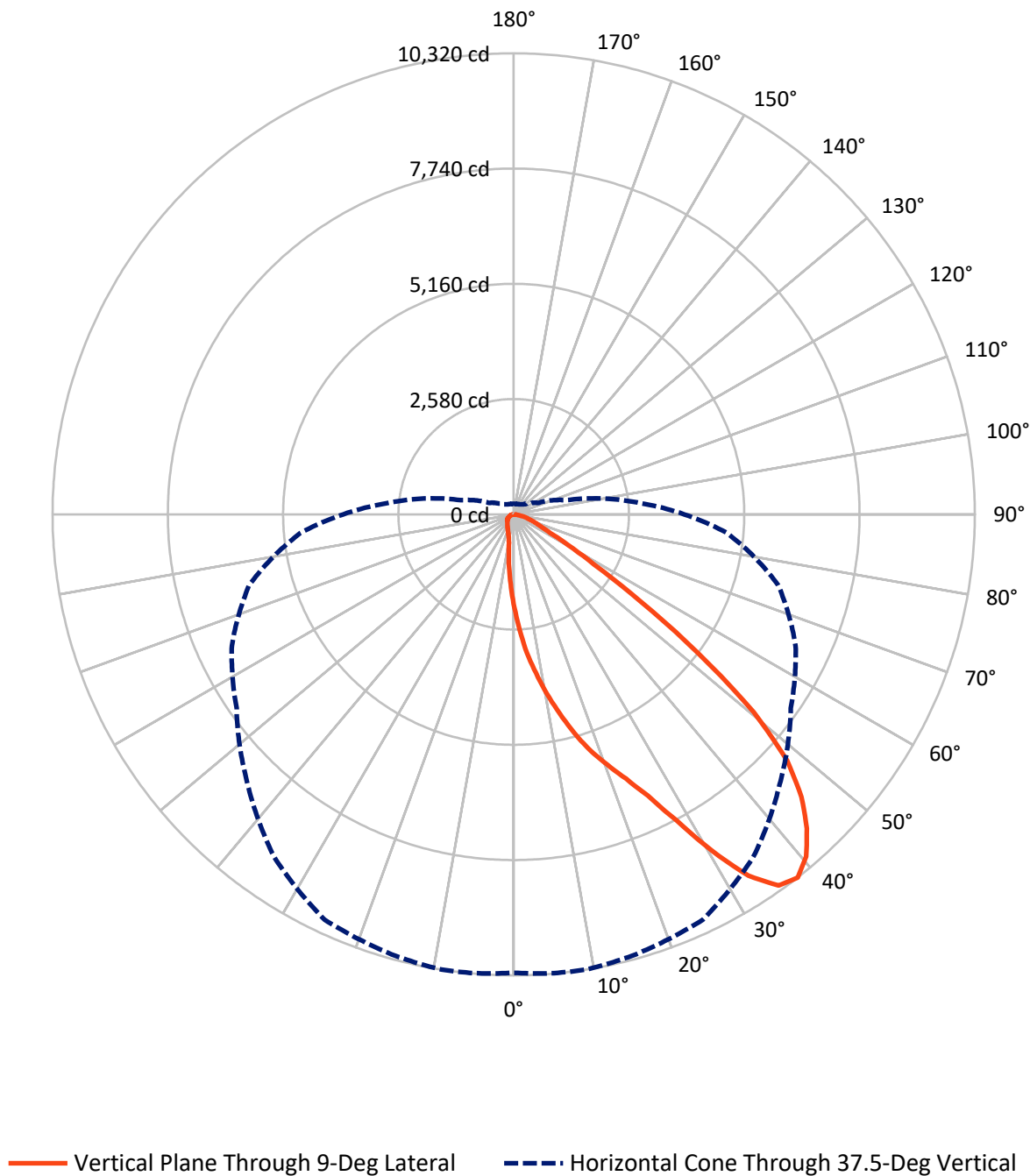
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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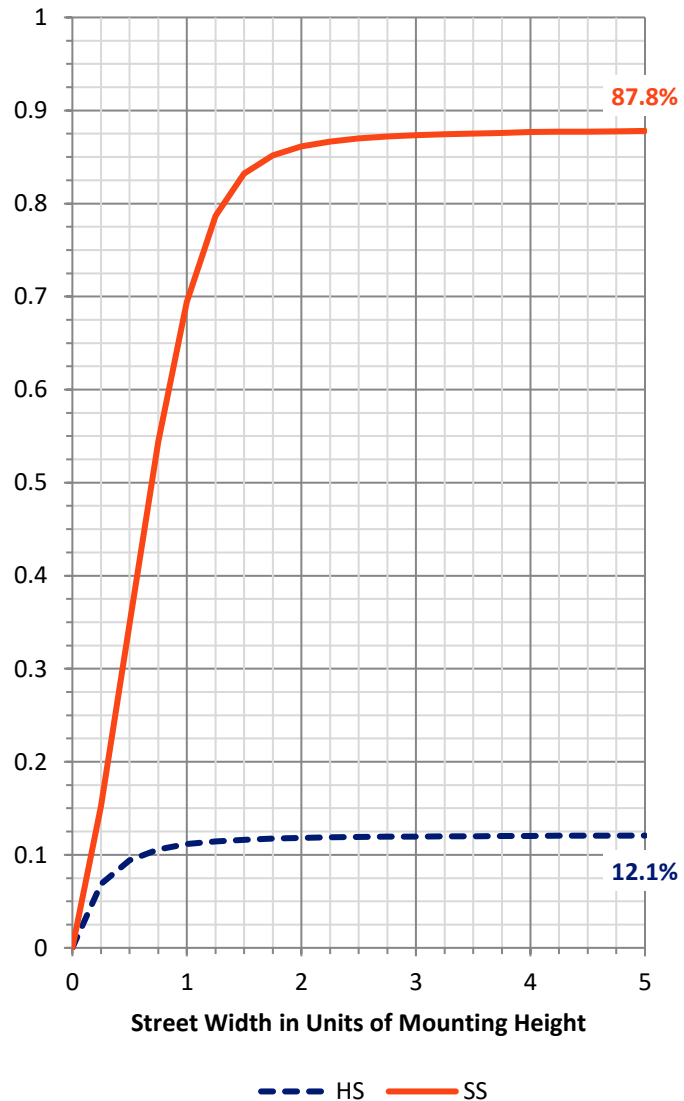
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1925.2	0.0	1925.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13904.8	0.0	13904.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	15830.0	0.0	15830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	1.3
10°-20°	731.0	4.6
20°-30°	1502.1	9.5
30°-40°	2655.1	16.8
40°-50°	3527.1	22.3
50°-60°	3345.2	21.1
60°-70°	2552.1	16.1
70°-80°	1237.3	7.8
80°-90°	69.6	0.4
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°	15830.0	100.0
0°-180°	15830.0	100.0

Coefficient of Utilization



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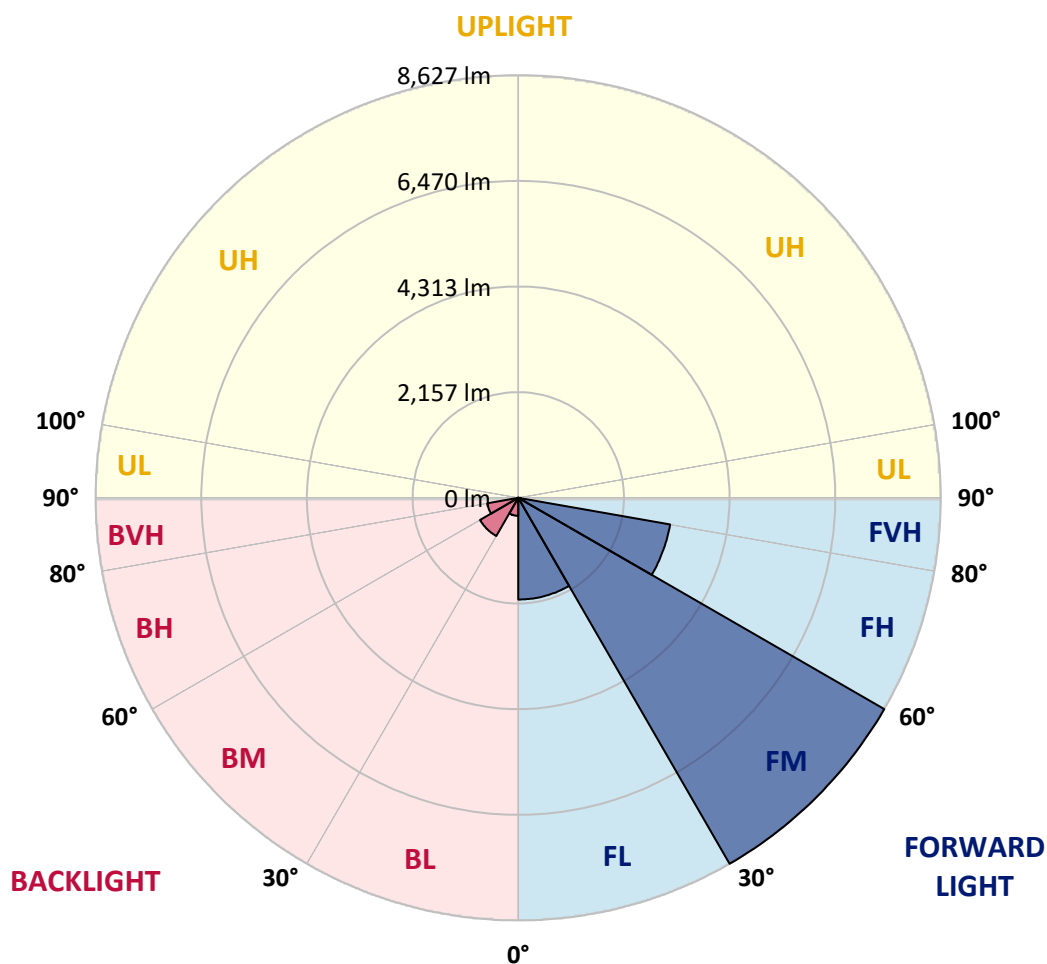
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2076.1	13.1			
FM	(30°-60°)	8626.6	54.5			
FH	(60°-80°)	3147.0	19.9			G2/5000
FVH	(80°-90°)	55.1	0.3			G1/100
BL	(0°-30°)	367.4	2.3	B1/500		
BM	(30°-60°)	900.9	5.7	B1/1000		
BH	(60°-80°)	642.4	4.1	B2/1000		G2/1000
BVH	(80°-90°)	14.5	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5
2.5°	2592.9	2547.4	2599.4	2592.9	2547.4	2518.2	2427.2	2398.0	2290.7	2212.8	2144.5
5°	3125.8	3080.3	3125.8	3112.8	3047.8	2976.3	2826.9	2729.4	2537.7	2368.7	2216.0
7.5°	3567.7	3567.7	3587.2	3590.5	3512.5	3402.0	3216.8	3070.6	2800.9	2540.9	2297.2
10°	4045.4	4048.6	4090.8	4061.6	3957.6	3808.2	3574.2	3389.0	3064.1	2722.9	2375.2
12.5°	4555.5	4558.7	4571.7	4558.7	4435.3	4243.6	3960.9	3717.2	3343.5	2930.8	2482.4
15°	5065.6	5068.9	5085.1	5062.4	4925.9	4701.7	4380.0	4081.1	3639.2	3164.8	2612.4
17.5°	5543.3	5549.8	5562.8	5533.5	5390.6	5124.1	4795.9	4435.3	3954.4	3415.0	2758.6
20°	5972.2	5978.7	5988.4	5949.4	5806.5	5540.0	5185.8	4808.9	4276.0	3671.7	2917.9
22.5°	6404.3	6410.8	6427.1	6375.1	6215.9	5910.4	5562.8	5172.8	4617.2	3954.4	3103.1
25°	6956.7	6963.2	6976.2	6901.5	6683.8	6326.3	5959.2	5559.5	4987.6	4272.8	3330.5
27.5°	7765.8	7759.3	7759.3	7622.8	7249.1	6784.5	6358.8	5952.7	5387.3	4614.0	3580.7
30°	8766.5	8750.3	8740.6	8555.3	8022.5	7301.1	6768.2	6319.8	5770.7	4974.6	3850.4
32.5°	9663.4	9663.4	9643.9	9448.9	8883.5	7996.5	7203.6	6677.3	6141.1	5338.6	4129.8
35°	10193.0	10215.7	10206.0	10059.8	9647.1	8743.8	7791.8	7106.2	6531.0	5718.7	4464.5
37.5°	10264.5	10310.0	10319.7	10232.0	10014.3	9354.7	8444.9	7570.8	6960.0	6128.1	4789.4
40°	9975.3	10072.8	10072.8	10059.8	9981.8	9643.9	8994.0	8110.2	7401.9	6553.8	5117.6
42.5°	9530.1	9630.9	9617.9	9666.6	9647.1	9575.6	9302.7	8613.8	7843.8	6992.4	5416.5
45°	8948.5	9052.5	9026.5	9114.2	9153.2	9231.2	9270.2	8964.8	8279.2	7470.1	5751.2
47.5°	8016.0	8191.4	8230.4	8386.4	8548.8	8792.5	8977.8	9091.5	8685.3	7983.5	6115.1
50°	6638.3	6885.2	6963.2	7291.4	7736.5	8240.2	8539.1	8935.5	8971.3	8509.9	6508.3
52.5°	4753.7	5039.6	5159.9	5699.2	6615.5	7492.8	8032.2	8591.1	9081.7	9013.5	6934.0
55°	3073.8	3317.5	3434.5	3941.4	5159.9	6537.5	7434.3	8145.9	9020.0	9474.9	7421.3
57.5°	1894.3	2034.0	2112.0	2547.4	3668.4	5312.6	6651.3	7736.5	8831.5	9874.6	7928.2
60°	1277.0	1358.2	1397.2	1601.9	2492.2	3970.6	5575.8	7307.6	8584.6	10144.2	8389.6
62.5°	848.1	874.1	913.0	1039.8	1644.1	2787.9	4282.5	6540.8	8399.4	10160.5	8730.8
65°	656.4	669.4	685.6	740.8	1013.8	1949.6	3012.1	5299.6	8123.2	9816.1	8838.0
67.5°	516.6	529.6	549.1	578.4	734.3	1322.5	2050.3	3882.9	7557.8	9276.7	8662.6
70°	406.2	415.9	428.9	454.9	571.9	958.5	1354.9	2579.9	6417.3	8763.3	8110.2
72.5°	321.7	331.4	344.4	370.4	464.6	701.8	929.3	1608.4	4948.6	8136.2	7047.7
75°	253.4	259.9	269.7	295.7	373.7	545.9	630.4	961.8	3363.0	6989.2	5491.3
77.5°	126.7	156.0	178.7	204.7	272.9	376.9	419.2	532.9	1419.9	3587.2	2618.9
80°	74.7	91.0	97.5	113.7	178.7	227.4	227.4	214.5	448.4	1377.7	1069.0
82.5°	42.2	58.5	61.7	65.0	107.2	130.0	104.0	78.0	91.0	461.4	311.9
85°	13.0	19.5	22.7	26.0	35.7	39.0	35.7	32.5	26.0	45.5	29.2
87.5°	0.0	0.0	0.0	0.0	3.2	6.5	6.5	6.5	9.7	9.7	9.7
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°	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5	2092.5
2.5°	2105.5	2063.3	1982.1	1907.3	1835.8	1783.9	1735.1	1689.6	1657.1	1631.1	1627.9
5°	2134.8	2050.3	1894.3	1748.1	1614.9	1504.4	1410.2	1335.5	1280.2	1241.2	1238.0
7.5°	2173.8	2043.8	1806.6	1588.9	1390.7	1231.5	1095.0	994.3	922.8	893.6	870.8
10°	2206.3	2037.3	1718.9	1429.7	1169.7	968.3	805.8	705.1	653.1	633.6	623.9
12.5°	2261.5	2043.8	1644.1	1283.5	978.0	740.8	617.4	562.1	539.4	523.1	519.9
15°	2342.7	2073.0	1572.7	1140.5	783.1	597.9	526.4	490.6	467.9	464.6	461.4
17.5°	2424.0	2099.0	1507.7	994.3	649.9	519.9	471.1	441.9	425.7	422.4	422.4
20°	2518.2	2131.5	1436.2	854.6	555.6	467.9	428.9	406.2	386.7	383.4	383.4
22.5°	2628.7	2177.0	1367.9	731.1	493.9	428.9	396.4	370.4	354.2	350.9	350.9
25°	2778.1	2245.3	1312.7	640.1	451.6	396.4	367.2	344.4	331.4	324.9	324.9
27.5°	2943.8	2339.5	1273.7	584.9	422.4	370.4	341.2	321.7	308.7	302.2	302.2
30°	3129.1	2443.5	1247.7	562.1	406.2	347.7	321.7	302.2	285.9	282.7	282.7
32.5°	3333.8	2563.7	1231.5	565.4	402.9	331.4	302.2	282.7	269.7	263.2	263.2
35°	3561.2	2696.9	1221.7	584.9	409.4	318.4	285.9	266.4	253.4	246.9	246.9
37.5°	3814.7	2852.9	1221.7	604.4	425.7	315.2	269.7	250.2	240.4	233.9	233.9
40°	4051.8	3018.6	1234.7	627.1	441.9	315.2	256.7	240.4	227.4	221.0	221.0
42.5°	4237.1	3112.8	1244.5	649.9	451.6	311.9	243.7	227.4	217.7	211.2	211.2
45°	4448.3	3213.5	1225.0	659.6	451.6	305.4	233.9	217.7	208.0	201.5	201.5
47.5°	4682.2	3337.0	1221.7	666.1	441.9	292.4	224.2	208.0	201.5	195.0	195.0
50°	4919.4	3473.5	1228.2	662.9	428.9	272.9	211.2	201.5	191.7	185.2	185.2
52.5°	5189.1	3616.4	1241.2	656.4	399.7	250.2	201.5	191.7	182.0	175.5	172.2
55°	5488.0	3772.4	1267.2	643.4	360.7	227.4	191.7	182.0	169.0	162.5	159.2
57.5°	5832.5	3964.1	1296.5	617.4	318.4	208.0	182.0	169.0	149.5	139.7	136.5
60°	6160.6	4181.8	1329.0	555.6	276.2	188.5	172.2	152.7	133.2	126.7	123.5
62.5°	6469.3	4396.3	1345.2	445.2	233.9	172.2	162.5	139.7	120.2	113.7	110.5
65°	6667.5	4630.2	1309.5	302.2	191.7	159.2	149.5	130.0	110.5	100.7	100.7
67.5°	6680.5	4740.7	1186.0	198.2	156.0	143.0	136.5	117.0	97.5	91.0	87.7
70°	6352.3	4575.0	906.5	156.0	130.0	123.5	123.5	104.0	84.5	78.0	74.7
72.5°	5598.5	4051.8	578.4	126.7	110.5	104.0	104.0	87.7	74.7	65.0	61.7
75°	4419.0	3125.8	308.7	104.0	91.0	87.7	81.2	71.5	61.7	55.2	52.0
77.5°	2030.8	1377.7	143.0	74.7	68.2	68.2	61.7	52.0	48.7	42.2	42.2
80°	802.6	467.9	71.5	48.7	45.5	45.5	45.5	35.7	35.7	29.2	26.0
82.5°	221.0	97.5	35.7	29.2	29.2	29.2	26.0	22.7	22.7	19.5	19.5
85°	22.7	16.2	16.2	16.2	16.2	13.0	13.0	9.7	6.5	6.5	6.5
87.5°	9.7	9.7	9.7	9.7	9.7	6.5	3.2	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)