

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: P842729

Luminaire Tested: **ARCH4-90-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842729
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: ARCH4-90-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA 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: 9745 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - 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

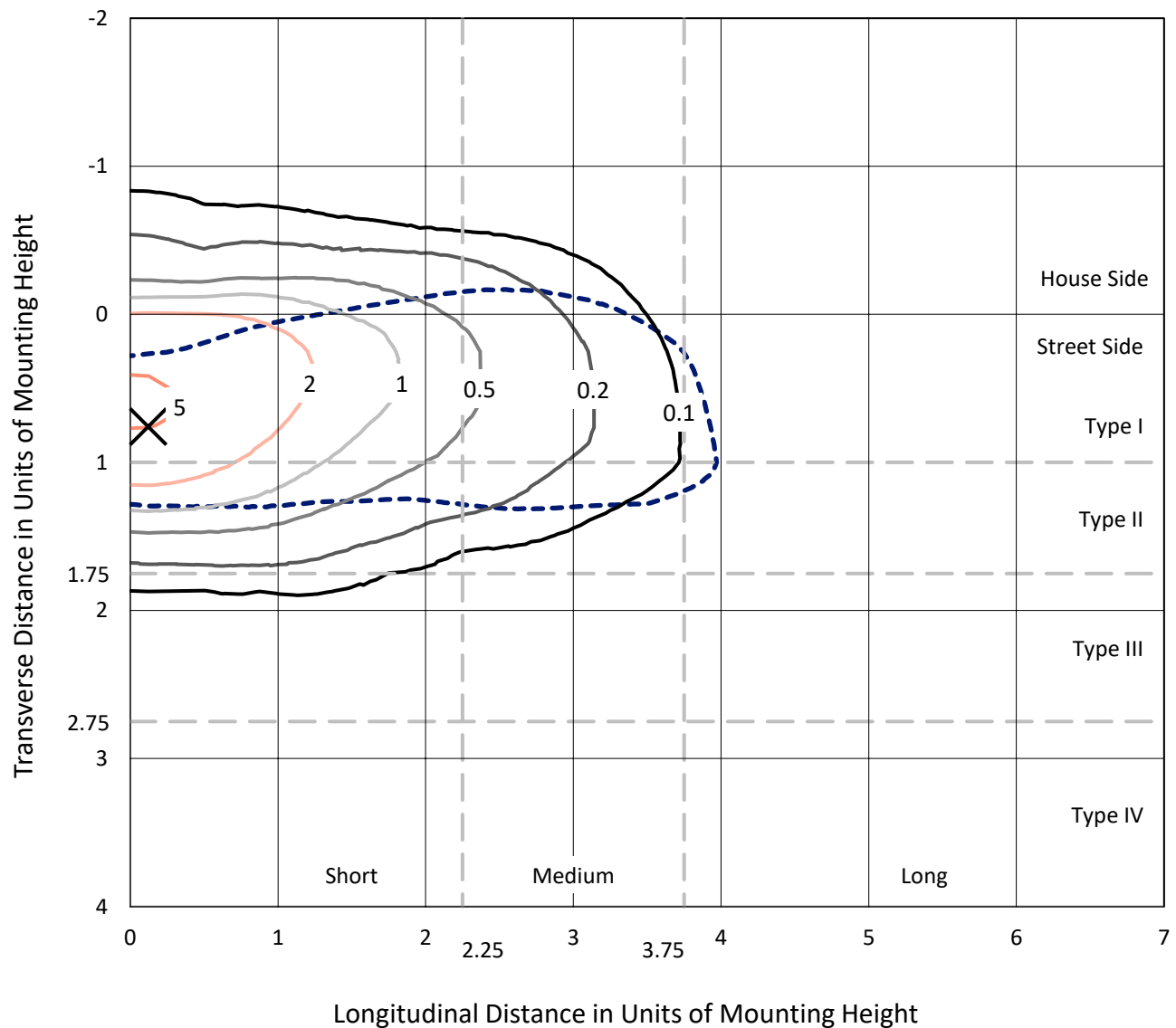


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

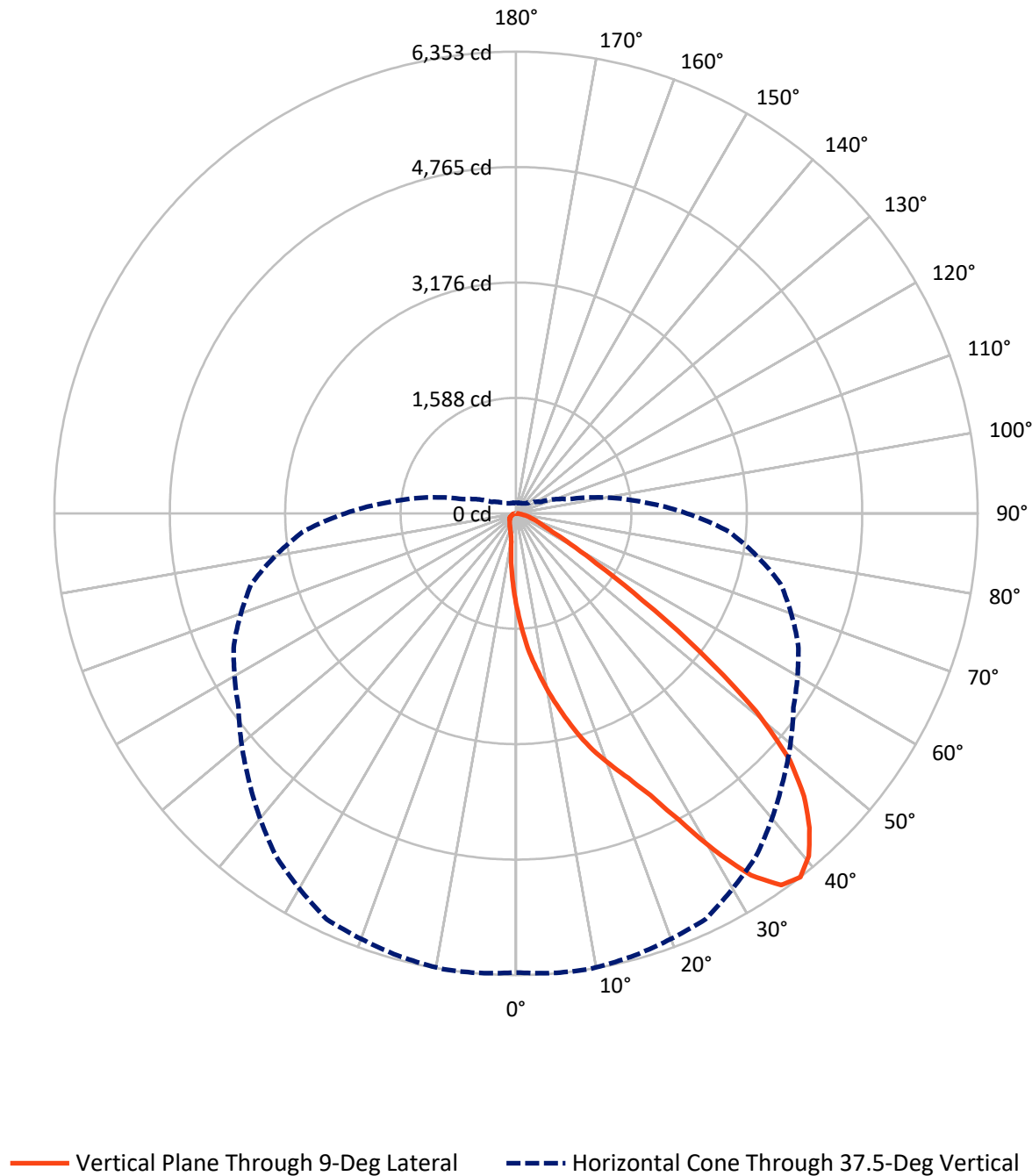


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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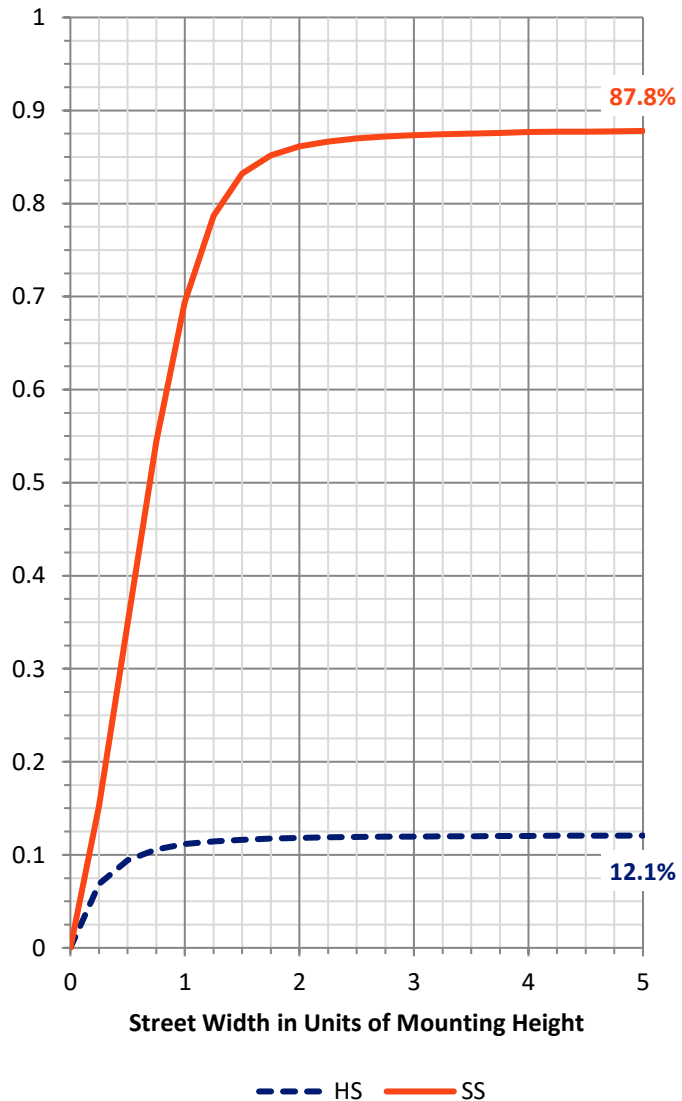
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.1	0.0	1185.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8559.8	0.0	8559.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	9745.0	0.0	9745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.3
10°-20°	450.0	4.6
20°-30°	924.7	9.5
30°-40°	1634.5	16.8
40°-50°	2171.3	22.3
50°-60°	2059.3	21.1
60°-70°	1571.1	16.1
70°-80°	761.7	7.8
80°-90°	42.9	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°	9745.0	100.0
0°-180°	9745.0	100.0

Coefficient of Utilization



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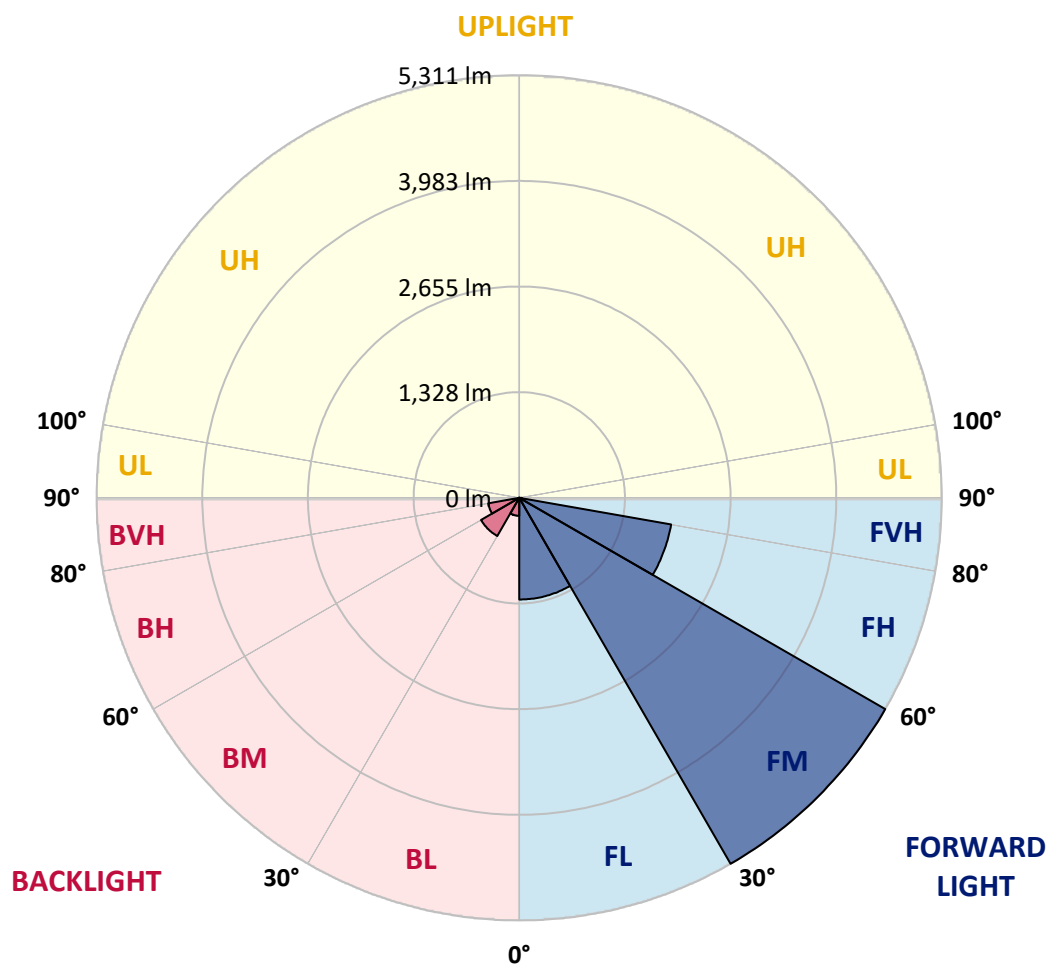
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1278.1	13.1			
FM	(30°-60°)	5310.5	54.5			
FH	(60°-80°)	1937.3	19.9			G2/5000
FVH	(80°-90°)	33.9	0.3			G1/100
BL	(0°-30°)	226.2	2.3	B1/500		
BM	(30°-60°)	554.6	5.7	B1/1000		
BH	(60°-80°)	395.5	4.1	B1/500		G1/500
BVH	(80°-90°)	8.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2
2.5°	1596.2	1568.2	1600.2	1596.2	1568.2	1550.2	1494.2	1476.2	1410.2	1362.2	1320.2
5°	1924.3	1896.3	1924.3	1916.3	1876.2	1832.2	1740.2	1680.2	1562.2	1458.2	1364.2
7.5°	2196.3	2196.3	2208.3	2210.3	2162.3	2094.3	1980.3	1890.3	1724.2	1564.2	1414.2
10°	2490.3	2492.3	2518.3	2500.3	2436.3	2344.3	2200.3	2086.3	1886.3	1676.2	1462.2
12.5°	2804.4	2806.4	2814.4	2806.4	2730.4	2612.3	2438.3	2288.3	2058.3	1804.2	1528.2
15°	3118.4	3120.4	3130.4	3116.4	3032.4	2894.4	2696.4	2512.3	2240.3	1948.3	1608.2
17.5°	3412.5	3416.5	3424.5	3406.5	3318.4	3154.4	2952.4	2730.4	2434.3	2102.3	1698.2
20°	3676.5	3680.5	3686.5	3662.5	3574.5	3410.5	3192.4	2960.4	2632.3	2260.3	1796.2
22.5°	3942.5	3946.5	3956.5	3924.5	3826.5	3638.5	3424.5	3184.4	2842.4	2434.3	1910.3
25°	4282.6	4286.6	4294.6	4248.6	4114.5	3894.5	3668.5	3422.5	3070.4	2630.3	2050.3
27.5°	4780.6	4776.6	4776.6	4692.6	4462.6	4176.6	3914.5	3664.5	3316.4	2840.4	2204.3
30°	5396.7	5386.7	5380.7	5266.7	4938.7	4494.6	4166.6	3890.5	3552.5	3062.4	2370.3
32.5°	5948.8	5948.8	5936.8	5816.8	5468.7	4922.7	4434.6	4110.5	3780.5	3286.4	2542.3
35°	6274.8	6288.8	6282.8	6192.8	5938.8	5382.7	4796.6	4374.6	4020.5	3520.5	2748.4
37.5°	6318.8	6346.8	6352.8	6298.8	6164.8	5758.8	5198.7	4660.6	4284.6	3772.5	2948.4
40°	6140.8	6200.8	6200.8	6192.8	6144.8	5936.8	5536.7	4992.7	4556.6	4034.5	3150.4
42.5°	5866.8	5928.8	5920.8	5950.8	5938.8	5894.8	5726.8	5302.7	4828.6	4304.6	3334.4
45°	5508.7	5572.7	5556.7	5610.7	5634.7	5682.8	5706.8	5518.7	5096.7	4598.6	3540.5
47.5°	4934.7	5042.7	5066.7	5162.7	5262.7	5412.7	5526.7	5596.7	5346.7	4914.7	3764.5
50°	4086.5	4238.6	4286.6	4488.6	4762.6	5072.7	5256.7	5500.7	5522.7	5238.7	4006.5
52.5°	2926.4	3102.4	3176.4	3508.5	4072.5	4612.6	4944.7	5288.7	5590.7	5548.7	4268.6
55°	1892.3	2042.3	2114.3	2426.3	3176.4	4024.5	4576.6	5014.7	5552.7	5832.8	4568.6
57.5°	1166.2	1252.2	1300.2	1568.2	2258.3	3270.4	4094.5	4762.6	5436.7	6078.8	4880.6
60°	786.1	836.1	860.1	986.1	1534.2	2444.3	3432.5	4498.6	5284.7	6244.8	5164.7
62.5°	522.1	538.1	562.1	640.1	1012.1	1716.2	2636.4	4026.5	5170.7	6254.8	5374.7
65°	404.1	412.1	422.1	456.1	624.1	1200.2	1854.2	3262.4	5000.7	6042.8	5440.7
67.5°	318.0	326.0	338.0	356.0	452.1	814.1	1262.2	2390.3	4652.6	5710.8	5332.7
70°	250.0	256.0	264.0	280.0	352.0	590.1	834.1	1588.2	3950.5	5394.7	4992.7
72.5°	198.0	204.0	212.0	228.0	286.0	432.1	572.1	990.1	3046.4	5008.7	4338.6
75°	156.0	160.0	166.0	182.0	230.0	336.0	388.1	592.1	2070.3	4302.6	3380.4
77.5°	78.0	96.0	110.0	126.0	168.0	232.0	258.0	328.0	874.1	2208.3	1612.2
80°	46.0	56.0	60.0	70.0	110.0	140.0	140.0	132.0	276.0	848.1	658.1
82.5°	26.0	36.0	38.0	40.0	66.0	80.0	64.0	48.0	56.0	284.0	192.0
85°	8.0	12.0	14.0	16.0	22.0	24.0	22.0	20.0	16.0	28.0	18.0
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	4.0	4.0	6.0	6.0	6.0
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°	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2	1288.2
2.5°	1296.2	1270.2	1220.2	1174.2	1130.2	1098.1	1068.1	1040.1	1020.1	1004.1	1002.1
5°	1314.2	1262.2	1166.2	1076.1	994.1	926.1	868.1	822.1	788.1	764.1	762.1
7.5°	1338.2	1258.2	1112.1	978.1	856.1	758.1	674.1	612.1	568.1	550.1	536.1
10°	1358.2	1254.2	1058.1	880.1	720.1	596.1	496.1	434.1	402.1	390.1	384.1
12.5°	1392.2	1258.2	1012.1	790.1	602.1	456.1	380.1	346.0	332.0	322.0	320.0
15°	1442.2	1276.2	968.1	702.1	482.1	368.0	324.0	302.0	288.0	286.0	284.0
17.5°	1492.2	1292.2	928.1	612.1	400.1	320.0	290.0	272.0	262.0	260.0	260.0
20°	1550.2	1312.2	884.1	526.1	342.0	288.0	264.0	250.0	238.0	236.0	236.0
22.5°	1618.2	1340.2	842.1	450.1	304.0	264.0	244.0	228.0	218.0	216.0	216.0
25°	1710.2	1382.2	808.1	394.1	278.0	244.0	226.0	212.0	204.0	200.0	200.0
27.5°	1812.2	1440.2	784.1	360.0	260.0	228.0	210.0	198.0	190.0	186.0	186.0
30°	1926.3	1504.2	768.1	346.0	250.0	214.0	198.0	186.0	176.0	174.0	174.0
32.5°	2052.3	1578.2	758.1	348.0	248.0	204.0	186.0	174.0	166.0	162.0	162.0
35°	2192.3	1660.2	752.1	360.0	252.0	196.0	176.0	164.0	156.0	152.0	152.0
37.5°	2348.3	1756.2	752.1	372.0	262.0	194.0	166.0	154.0	148.0	144.0	144.0
40°	2494.3	1858.2	760.1	386.1	272.0	194.0	158.0	148.0	140.0	136.0	136.0
42.5°	2608.3	1916.3	766.1	400.1	278.0	192.0	150.0	140.0	134.0	130.0	130.0
45°	2738.4	1978.3	754.1	406.1	278.0	188.0	144.0	134.0	128.0	124.0	124.0
47.5°	2882.4	2054.3	752.1	410.1	272.0	180.0	138.0	128.0	124.0	120.0	120.0
50°	3028.4	2138.3	756.1	408.1	264.0	168.0	130.0	124.0	118.0	114.0	114.0
52.5°	3194.4	2226.3	764.1	404.1	246.0	154.0	124.0	118.0	112.0	108.0	106.0
55°	3378.4	2322.3	780.1	396.1	222.0	140.0	118.0	112.0	104.0	100.0	98.0
57.5°	3590.5	2440.3	798.1	380.1	196.0	128.0	112.0	104.0	92.0	86.0	84.0
60°	3792.5	2574.3	818.1	342.0	170.0	116.0	106.0	94.0	82.0	78.0	76.0
62.5°	3982.5	2706.4	828.1	274.0	144.0	106.0	100.0	86.0	74.0	70.0	68.0
65°	4104.5	2850.4	806.1	186.0	118.0	98.0	92.0	80.0	68.0	62.0	62.0
67.5°	4112.5	2918.4	730.1	122.0	96.0	88.0	84.0	72.0	60.0	56.0	54.0
70°	3910.5	2816.4	558.1	96.0	80.0	76.0	76.0	64.0	52.0	48.0	46.0
72.5°	3446.5	2494.3	356.0	78.0	68.0	64.0	64.0	54.0	46.0	40.0	38.0
75°	2720.4	1924.3	190.0	64.0	56.0	54.0	50.0	44.0	38.0	34.0	32.0
77.5°	1250.2	848.1	88.0	46.0	42.0	42.0	38.0	32.0	30.0	26.0	26.0
80°	494.1	288.0	44.0	30.0	28.0	28.0	28.0	22.0	22.0	18.0	16.0
82.5°	136.0	60.0	22.0	18.0	18.0	18.0	16.0	14.0	14.0	12.0	12.0
85°	14.0	10.0	10.0	10.0	10.0	8.0	8.0	6.0	4.0	4.0	4.0
87.5°	6.0	6.0	6.0	6.0	6.0	4.0	2.0	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)