

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: P800260

Luminaire Tested: **ARCH2-90-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

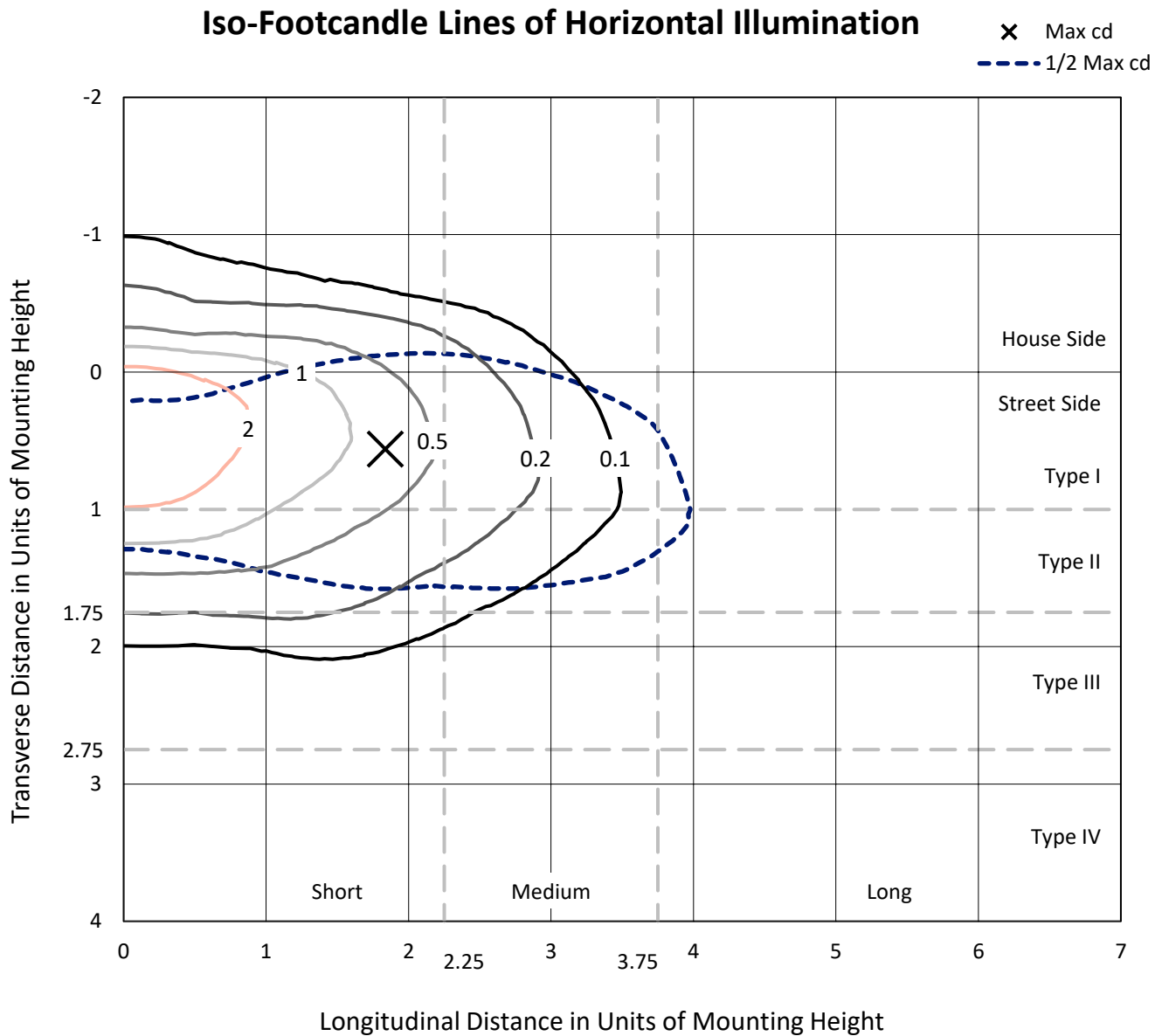
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7669 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.7
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

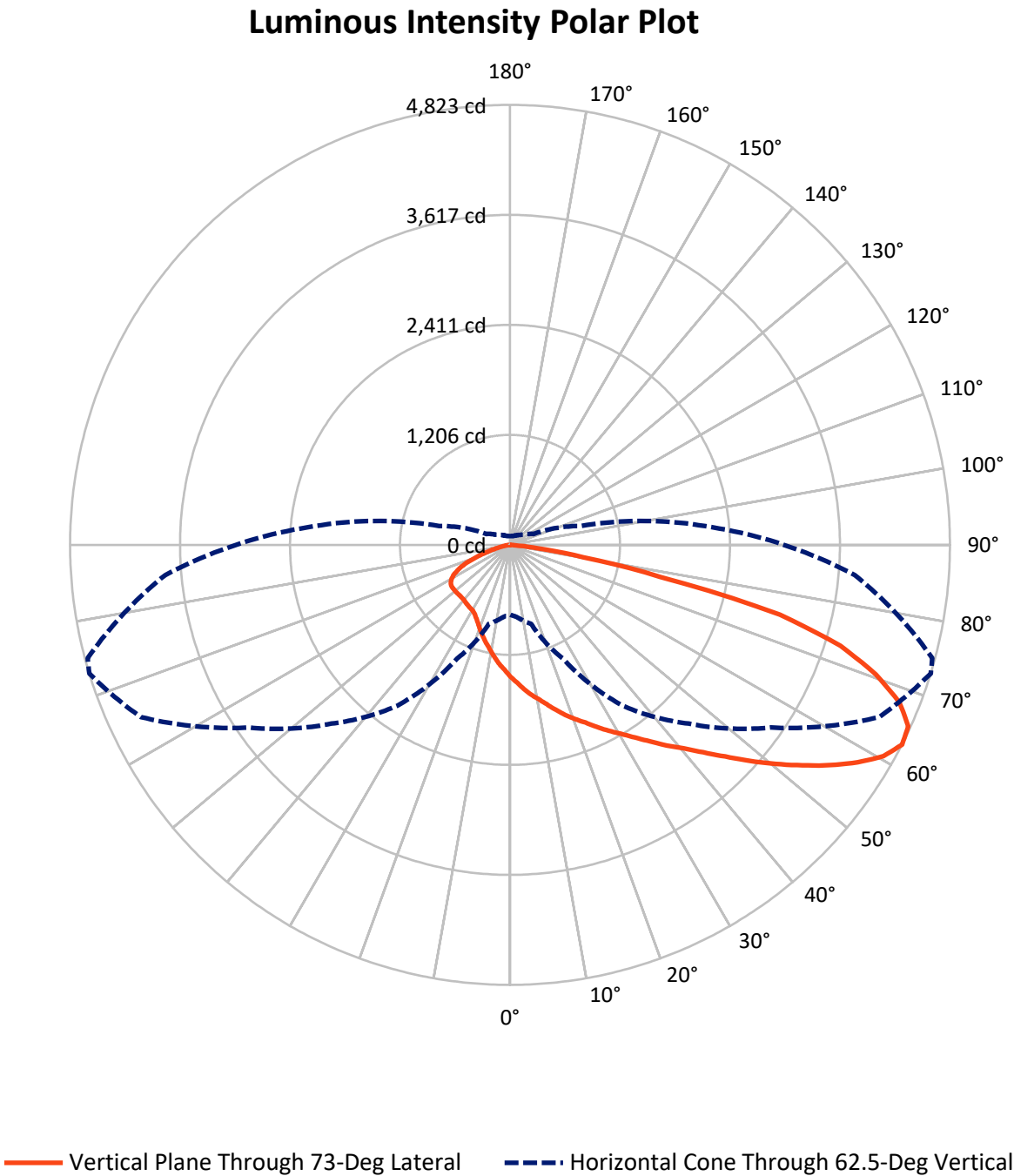


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Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

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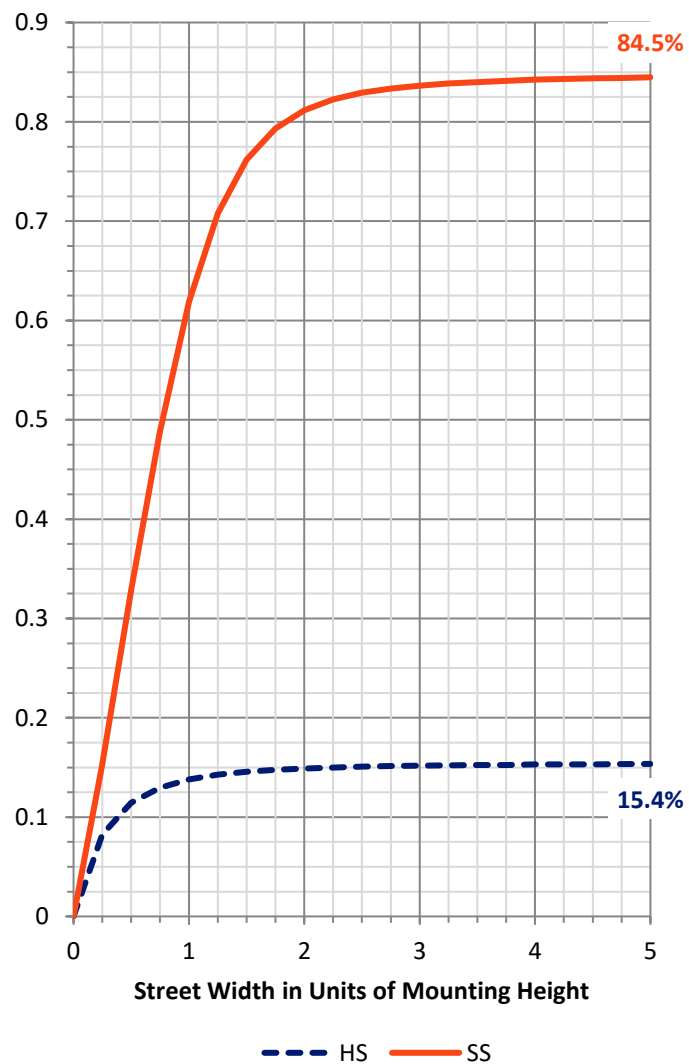
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1188.8	0.0	1188.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6480.2	0.0	6480.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	7669.0	0.0	7669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	1.8
10°-20°	423.3	5.5
20°-30°	704.6	9.2
30°-40°	1063.2	13.9
40°-50°	1486.0	19.4
50°-60°	1641.4	21.4
60°-70°	1429.9	18.6
70°-80°	722.3	9.4
80°-90°	58.0	0.8
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°	7669.0	100.0
0°-180°	7669.0	100.0

Coefficient of Utilization



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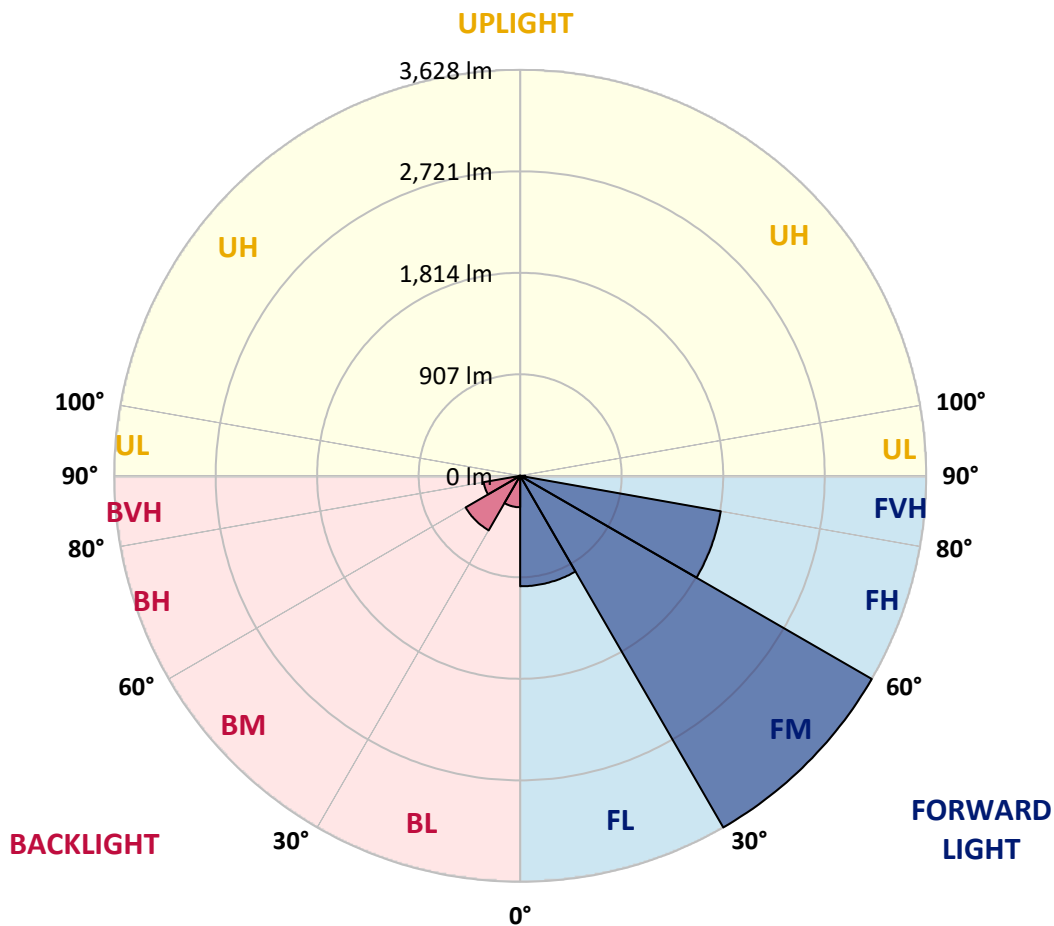
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	987.2	12.9			
FM	(30°-60°)	3627.7	47.3			
FH	(60°-80°)	1820.4	23.7			G2/5000
FVH	(80°-90°)	44.9	0.6			G1/100
BL	(0°-30°)	281.0	3.7	B1/500		
BM	(30°-60°)	562.9	7.3	B1/1000		
BH	(60°-80°)	331.8	4.3	B1/500		G1/500
BVH	(80°-90°)	13.1	0.2			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1
2.5°	1652.7	1671.0	1661.0	1667.7	1634.3	1612.6	1587.5	1539.0	1512.3	1509.0	1477.2
5°	1895.0	1915.0	1898.3	1893.3	1834.8	1784.7	1727.9	1642.6	1585.8	1575.8	1505.6
7.5°	2137.3	2155.7	2135.6	2120.6	2042.0	1953.5	1869.9	1744.6	1656.0	1639.3	1529.0
10°	2307.7	2324.4	2309.4	2294.3	2212.5	2122.2	2003.6	1839.8	1719.5	1692.8	1544.0
12.5°	2436.4	2446.4	2439.7	2426.4	2349.5	2252.6	2138.9	1946.8	1791.4	1757.9	1567.4
15°	2541.7	2558.4	2550.0	2540.0	2466.5	2369.5	2260.9	2058.7	1874.9	1833.1	1602.5
17.5°	2611.8	2623.5	2625.2	2625.2	2560.0	2464.8	2359.5	2160.7	1958.5	1905.0	1636.0
20°	2643.6	2657.0	2665.3	2678.7	2625.2	2543.3	2436.4	2247.6	2037.0	1976.9	1667.7
22.5°	2658.6	2670.3	2692.1	2722.1	2678.7	2610.2	2511.6	2327.8	2115.5	2052.0	1704.5
25°	2670.3	2685.4	2717.1	2773.9	2743.9	2685.4	2600.2	2419.7	2209.1	2144.0	1757.9
27.5°	2702.1	2720.5	2750.5	2819.1	2782.3	2753.9	2693.7	2518.3	2307.7	2240.9	1823.1
30°	2812.4	2827.4	2825.7	2869.2	2824.1	2815.7	2773.9	2613.5	2403.0	2336.1	1900.0
32.5°	3012.9	3027.9	2991.2	2974.5	2875.9	2877.5	2860.8	2715.5	2516.6	2448.1	1988.5
35°	3228.5	3245.2	3196.7	3168.3	3002.9	2954.4	2962.8	2842.5	2643.6	2575.1	2098.8
37.5°	3420.6	3440.7	3398.9	3357.1	3190.0	3078.1	3076.4	2984.5	2789.0	2718.8	2220.8
40°	3525.9	3549.3	3574.4	3551.0	3375.5	3251.9	3198.4	3129.9	2932.7	2860.8	2352.8
42.5°	3576.0	3641.2	3686.3	3671.3	3527.6	3402.3	3338.8	3281.9	3108.2	3038.0	2509.9
45°	3435.7	3437.3	3532.6	3614.5	3587.7	3504.2	3492.5	3452.4	3308.7	3241.8	2687.0
47.5°	3260.2	3246.8	3313.7	3459.1	3534.3	3556.0	3624.5	3641.2	3537.6	3470.8	2867.5
50°	2839.1	2847.5	3064.7	3273.6	3420.6	3561.0	3718.1	3835.1	3773.2	3709.7	3058.0
52.5°	2309.4	2329.4	2578.4	3038.0	3270.2	3510.9	3773.2	4028.9	4013.9	3953.7	3248.5
55°	1851.5	1883.3	2147.3	2645.3	3078.1	3398.9	3796.6	4206.0	4262.8	4207.7	3435.7
57.5°	1415.4	1448.8	1671.0	2182.4	2832.4	3216.8	3779.9	4361.4	4495.1	4460.0	3607.8
60°	1066.1	1099.6	1241.6	1769.6	2525.0	3012.9	3696.4	4463.4	4704.0	4667.2	3733.1
62.5°	763.7	790.4	895.7	1376.9	2150.6	2770.6	3490.8	4465.0	4822.6	4792.6	3793.3
65°	549.8	549.8	635.0	982.6	1799.7	2479.8	3180.0	4259.5	4797.6	4789.2	3751.5
67.5°	396.0	399.4	467.9	686.8	1435.4	2127.2	2777.3	3893.5	4603.7	4645.5	3601.1
70°	280.7	289.1	320.8	479.6	1084.5	1679.4	2346.2	3414.0	4254.5	4328.0	3310.3
72.5°	217.2	222.2	244.0	334.2	792.1	1248.3	1869.9	2879.2	3788.3	3871.8	2914.3
75°	167.1	172.1	188.8	245.6	568.2	875.6	1328.5	2234.2	3054.7	3203.4	2341.1
77.5°	122.0	128.7	140.4	178.8	330.9	556.5	805.4	1256.6	1686.1	1756.3	1226.5
80°	56.8	65.2	81.9	115.3	178.8	262.4	285.7	484.6	810.5	847.2	665.1
82.5°	31.7	40.1	46.8	70.2	90.2	93.6	96.9	122.0	305.8	337.6	279.1
85°	15.0	20.1	21.7	30.1	30.1	26.7	31.7	23.4	50.1	60.2	58.5
87.5°	0.0	1.7	3.3	8.4	6.7	5.0	5.0	5.0	5.0	6.7	5.0
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°	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1
2.5°	1462.2	1440.4	1390.3	1346.9	1318.5	1293.4	1260.0	1244.9	1218.2	1223.2	1208.2
5°	1470.5	1430.4	1341.9	1260.0	1199.8	1146.3	1087.9	1054.4	1017.7	1014.3	1002.6
7.5°	1475.5	1413.7	1286.7	1171.4	1079.5	997.6	919.1	875.6	830.5	820.5	810.5
10°	1470.5	1388.6	1229.9	1079.5	957.5	855.6	767.0	711.9	665.1	653.4	643.4
12.5°	1475.5	1375.3	1176.4	994.3	848.9	733.6	633.3	576.5	533.1	521.4	514.7
15°	1487.2	1366.9	1131.3	917.4	752.0	623.3	524.7	476.2	441.2	429.5	426.1
17.5°	1497.3	1358.6	1082.8	842.2	655.1	526.4	441.2	401.1	371.0	359.3	355.9
20°	1510.6	1346.9	1034.4	770.4	569.8	449.5	374.3	339.2	315.8	307.5	305.8
22.5°	1522.3	1338.5	989.3	698.5	491.3	387.7	324.2	295.8	279.1	270.7	270.7
25°	1552.4	1341.9	950.8	631.7	432.8	339.2	285.7	264.0	250.7	245.6	245.6
27.5°	1587.5	1355.2	920.7	574.8	382.7	302.5	259.0	240.6	233.9	227.3	228.9
30°	1637.6	1382.0	900.7	528.1	345.9	274.1	237.3	223.9	217.2	215.6	215.6
32.5°	1701.1	1425.4	899.0	498.0	319.2	252.3	222.2	210.6	207.2	205.5	205.5
35°	1776.3	1463.8	889.0	484.6	302.5	237.3	210.6	202.2	200.5	200.5	200.5
37.5°	1866.6	1527.3	882.3	466.2	294.1	228.9	202.2	195.5	195.5	195.5	195.5
40°	1960.1	1579.1	872.3	449.5	290.8	223.9	197.2	188.8	188.8	188.8	188.8
42.5°	2072.1	1654.3	868.9	441.2	285.7	220.6	190.5	180.5	182.1	182.1	183.8
45°	2207.5	1739.6	867.3	432.8	284.1	217.2	183.8	172.1	173.8	172.1	172.1
47.5°	2344.5	1838.2	872.3	427.8	282.4	213.9	178.8	163.8	163.8	162.1	162.1
50°	2488.2	1928.4	875.6	422.8	279.1	207.2	170.4	157.1	153.7	150.4	152.1
52.5°	2623.5	2011.9	877.3	414.4	269.0	197.2	163.8	148.7	143.7	138.7	140.4
55°	2758.9	2092.2	880.6	404.4	255.7	187.2	155.4	140.4	133.7	127.0	127.0
57.5°	2880.9	2162.3	872.3	379.3	240.6	177.1	147.1	130.3	120.3	113.6	113.6
60°	2964.4	2212.5	847.2	342.6	220.6	165.4	138.7	120.3	108.6	103.6	103.6
62.5°	3004.5	2220.8	802.1	282.4	195.5	153.7	128.7	110.3	100.3	96.9	96.9
65°	2966.1	2184.1	731.9	212.2	168.8	140.4	118.6	101.9	91.9	83.6	83.6
67.5°	2832.4	2080.5	635.0	160.4	143.7	127.0	108.6	93.6	81.9	75.2	75.2
70°	2563.4	1864.9	491.3	128.7	122.0	110.3	98.6	83.6	73.5	65.2	65.2
72.5°	2210.8	1580.8	345.9	103.6	103.6	93.6	83.6	73.5	63.5	56.8	56.8
75°	1696.1	1169.7	232.3	83.6	85.2	78.5	68.5	60.2	53.5	48.5	48.5
77.5°	925.8	578.2	142.0	61.8	63.5	60.2	53.5	48.5	45.1	40.1	40.1
80°	449.5	254.0	81.9	43.4	45.1	43.4	40.1	35.1	35.1	31.7	31.7
82.5°	188.8	95.2	43.4	30.1	30.1	26.7	25.1	25.1	25.1	23.4	23.4
85°	46.8	18.4	18.4	16.7	16.7	16.7	15.0	15.0	15.0	11.7	13.4
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	5.0	1.7	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)