

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1462104

Luminaire Tested: PRV-P-90-8540-U-T4W-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1462104
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: PRV-P-90-8540-U-T4W-HSS
Description: PREVAIL PETITE DISCRETE LED 2 SQUARES 90W 85CRI 4000k FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (20) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7355.3 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

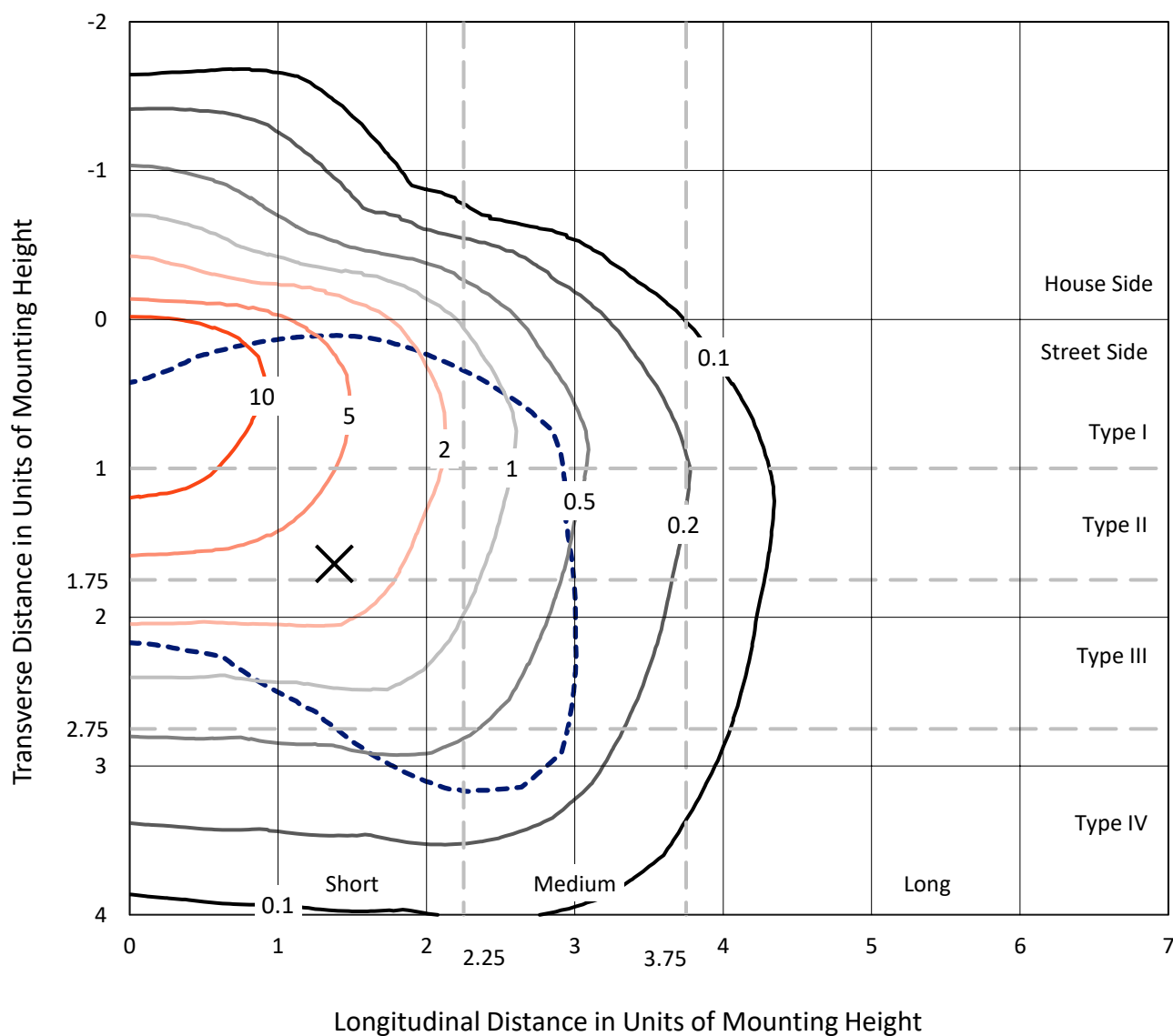
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 6.0%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

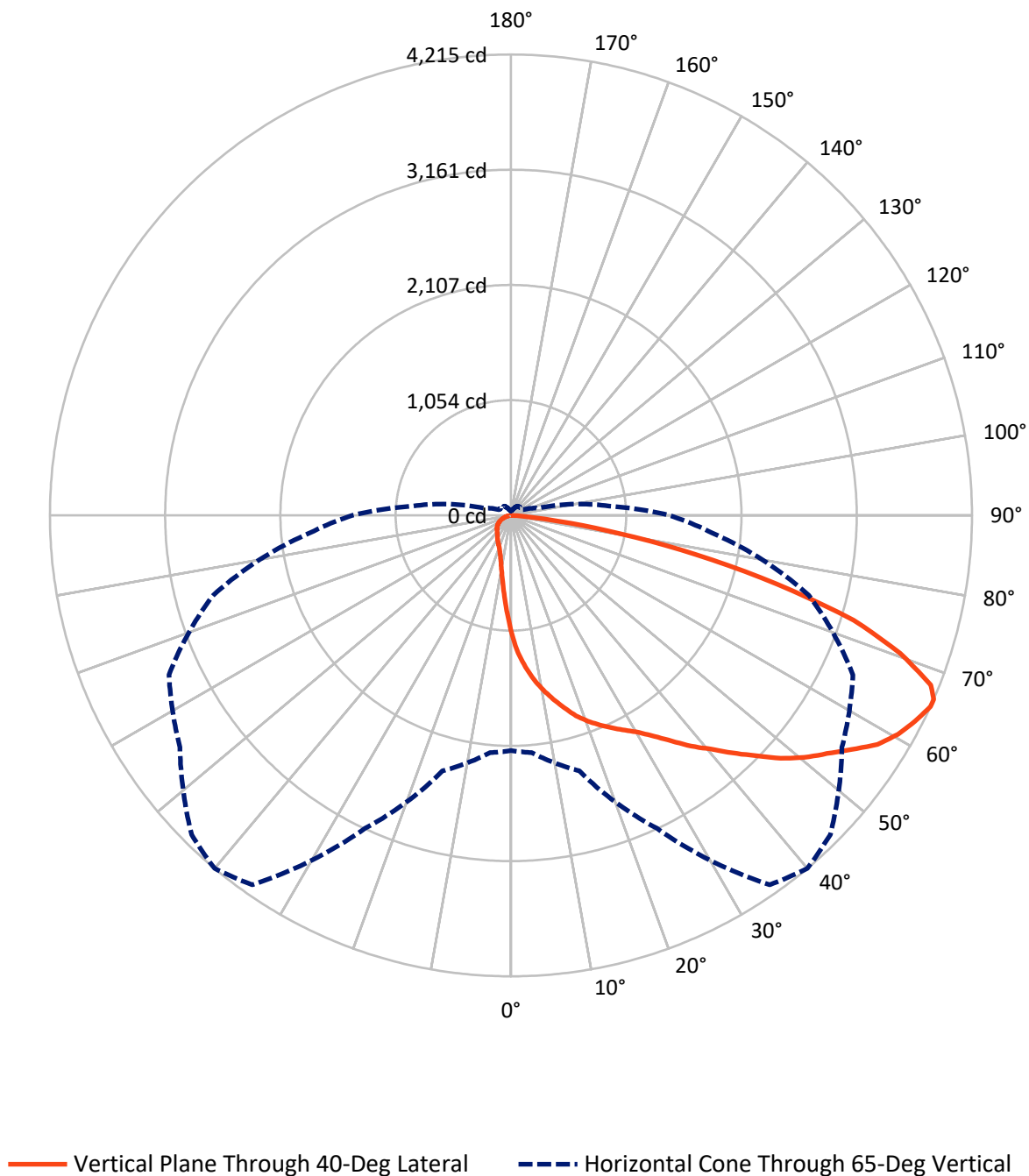


Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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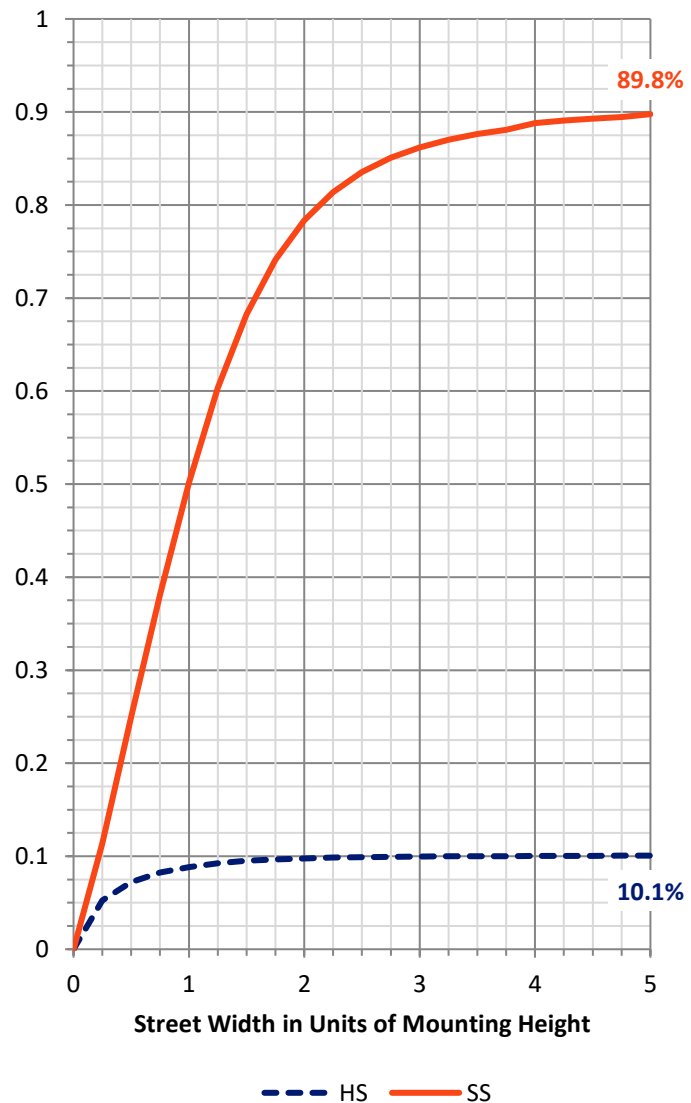
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.8	0.0	744.8
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	6610.5	0.0	6610.5
	% Fixture	89.9	0.0	89.9
Total	Lumens	7355.3	0.0	7355.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	1.4
10°-20°	316.6	4.3
20°-30°	559.4	7.6
30°-40°	872.3	11.9
40°-50°	1293.5	17.6
50°-60°	1653.9	22.5
60°-70°	1601.8	21.8
70°-80°	849.5	11.5
80°-90°	105.7	1.4
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°	7355.3	100.0
0°-180°	7355.3	100.0

Coefficient of Utilization



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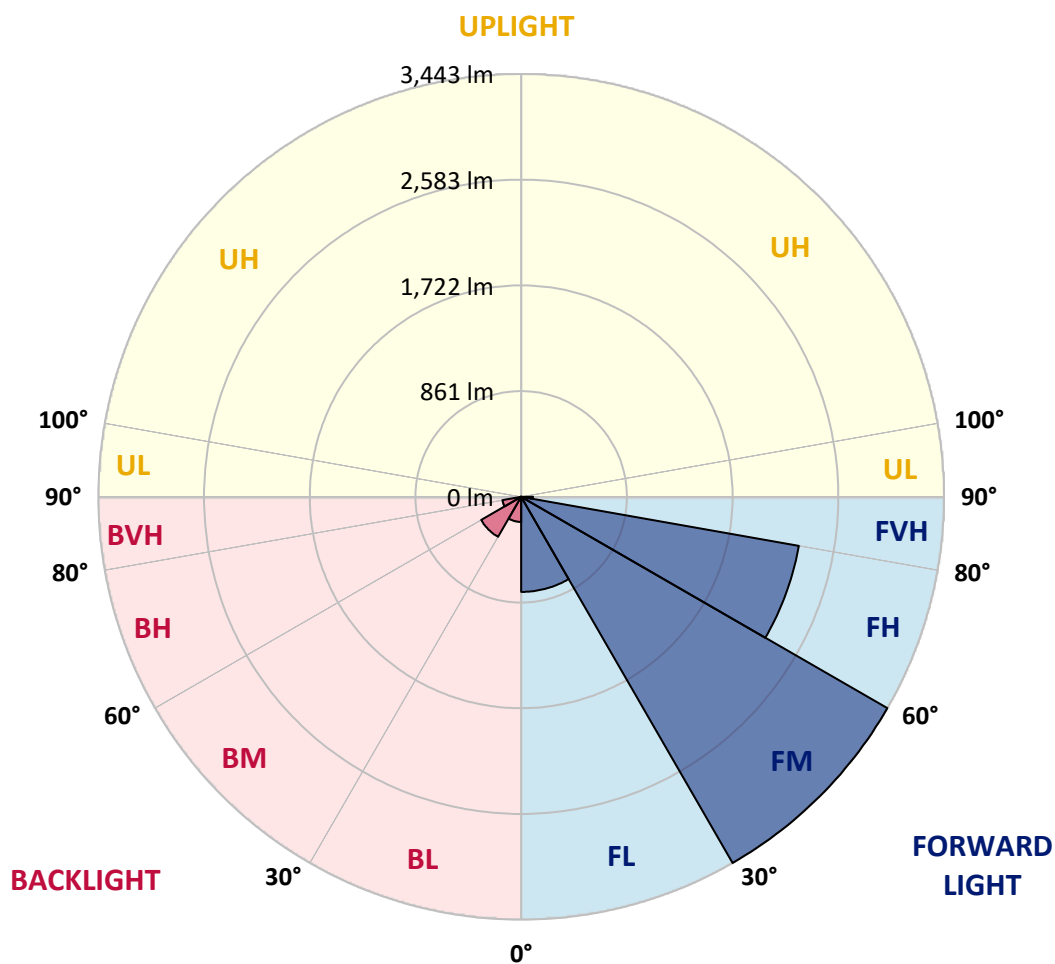
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	774.0	10.5			
FM	(30°-60°)	3443.4	46.8			
FH	(60°-80°)	2296.2	31.2			G2/5000
FVH	(80°-90°)	96.9	1.3			G1/100
BL	(0°-30°)	204.6	2.8	B1/500		
BM	(30°-60°)	376.3	5.1	B1/1000		
BH	(60°-80°)	155.1	2.1	B1/500		G1/500
BVH	(80°-90°)	8.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8
2.5°	1300.5	1297.2	1292.3	1285.6	1264.1	1260.8	1244.2	1221.0	1187.9	1156.4	1115.0
5°	1461.2	1459.6	1454.6	1443.0	1414.9	1393.3	1380.1	1328.7	1277.3	1209.4	1134.9
7.5°	1600.4	1592.1	1592.1	1570.6	1537.5	1517.6	1487.8	1429.8	1353.6	1267.4	1163.0
10°	1714.7	1718.0	1708.1	1688.2	1651.8	1623.6	1598.8	1525.9	1433.1	1325.4	1191.2
12.5°	1829.0	1824.1	1817.4	1789.3	1761.1	1724.7	1693.2	1620.3	1512.6	1385.0	1222.7
15°	1921.8	1923.5	1921.8	1903.6	1863.8	1825.7	1794.3	1706.4	1593.8	1448.0	1259.1
17.5°	1999.7	1984.8	1994.7	1988.1	1953.3	1926.8	1887.0	1797.6	1665.0	1506.0	1300.5
20°	2037.8	2036.1	2052.7	2051.0	2034.5	2008.0	1991.4	1888.7	1747.9	1583.8	1337.0
22.5°	2084.2	2087.5	2099.1	2112.3	2097.4	2082.5	2062.6	1983.1	1847.3	1653.4	1381.7
25°	2135.5	2137.2	2153.8	2158.7	2162.1	2153.8	2147.1	2089.2	1931.8	1729.6	1431.4
27.5°	2221.7	2215.1	2225.0	2226.7	2230.0	2223.4	2226.7	2178.6	2047.7	1817.4	1487.8
30°	2327.7	2324.4	2317.8	2301.2	2304.5	2301.2	2311.2	2288.0	2155.4	1908.6	1540.8
32.5°	2486.8	2485.1	2466.9	2427.1	2408.9	2407.2	2405.6	2380.7	2266.4	2003.0	1605.4
35°	2679.0	2649.1	2649.1	2597.8	2571.3	2533.2	2513.3	2498.4	2379.1	2110.7	1673.3
37.5°	2881.1	2879.4	2854.6	2791.6	2745.2	2677.3	2637.5	2596.1	2488.4	2216.7	1737.9
40°	3134.6	3118.0	3079.9	3005.3	2901.0	2808.2	2758.5	2715.4	2602.7	2321.1	1799.2
42.5°	3409.6	3374.8	3311.8	3210.8	3068.3	2968.9	2909.2	2831.4	2722.0	2430.4	1868.8
45°	3679.6	3598.4	3510.6	3436.1	3227.3	3132.9	3073.3	2972.2	2851.3	2541.4	1935.1
47.5°	3803.9	3707.8	3678.0	3633.2	3398.0	3318.5	3250.5	3123.0	2978.8	2677.3	2006.3
50°	3817.1	3752.5	3808.9	3760.8	3543.8	3479.2	3424.5	3288.6	3113.0	2803.2	2072.6
52.5°	3721.0	3729.3	3835.4	3812.2	3682.9	3618.3	3591.8	3451.0	3238.9	2907.6	2125.6
55°	3562.0	3558.7	3739.3	3885.1	3825.4	3777.4	3745.9	3626.6	3381.4	2997.1	2170.3
57.5°	3321.8	3308.5	3509.0	3886.7	3976.2	3951.3	3908.3	3793.9	3485.8	3028.5	2178.6
60°	3012.0	2972.2	3182.6	3731.0	4042.5	4064.0	4042.5	3896.7	3568.6	2995.4	2123.9
62.5°	2619.3	2596.1	2844.6	3470.9	4098.8	4146.8	4107.1	3868.5	3580.2	2924.2	2017.9
65°	2150.5	2177.0	2418.8	3157.8	4123.6	4214.8	4128.6	3694.5	3449.3	2818.1	1847.3
66°	1963.2	2011.3	2238.3	3003.7	4093.8	4214.8	4113.7	3606.7	3340.0	2748.5	1769.4
67.5°	1746.2	1764.4	1968.2	2760.1	4006.0	4140.2	4027.5	3456.0	3146.2	2635.9	1635.2
70°	1360.2	1395.0	1575.6	2258.1	3639.9	3774.1	3658.1	3109.7	2677.3	2341.0	1351.9
72.5°	1009.0	1042.1	1232.6	1759.5	3091.5	3277.0	3154.4	2634.2	2175.3	1925.1	1078.5
75°	692.5	738.9	888.0	1280.7	2276.4	2511.6	2500.0	2042.8	1655.1	1438.1	801.9
77.5°	394.3	412.5	561.6	828.4	1457.9	1729.6	1761.1	1459.6	1156.4	970.9	568.3
80°	183.9	187.2	271.7	478.8	844.9	1005.6	1093.5	952.6	710.7	601.4	391.0
82.5°	77.9	87.8	127.6	193.8	336.3	435.7	515.2	535.1	384.4	349.6	248.5
85°	9.9	11.6	14.9	54.7	92.8	124.3	157.4	162.4	137.5	137.5	89.5
87.5°	1.7	1.7	3.3	5.0	6.6	6.6	8.3	13.3	6.6	5.0	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°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8
2.5°	1093.5	1075.2	1027.2	992.4	954.3	919.5	889.7	873.1	856.5	848.3	849.9
5°	1091.8	1055.3	972.5	891.3	823.4	767.1	719.0	689.2	667.7	652.8	652.8
7.5°	1100.1	1037.1	909.6	805.2	712.4	637.8	584.8	550.0	525.2	518.6	511.9
10°	1106.7	1025.5	859.9	714.1	606.4	538.4	487.1	457.3	434.1	425.8	422.5
12.5°	1121.6	1017.2	811.8	646.1	531.8	457.3	415.8	387.7	374.4	367.8	367.8
15°	1141.5	1012.3	767.1	581.5	468.9	404.2	364.5	342.9	334.7	328.0	326.4
17.5°	1161.4	1012.3	722.3	531.8	422.5	364.5	329.7	311.5	303.2	299.9	299.9
20°	1181.3	1007.3	685.9	490.4	387.7	331.3	301.5	289.9	283.3	278.3	278.3
22.5°	1204.5	1005.6	647.8	450.6	356.2	308.2	281.6	270.0	263.4	260.1	260.1
25°	1234.3	1009.0	616.3	415.8	331.3	291.6	265.1	251.8	243.5	241.9	238.6
27.5°	1269.1	1017.2	589.8	392.6	309.8	276.7	250.2	235.3	225.3	222.0	220.3
30°	1305.5	1025.5	564.9	364.5	289.9	260.1	235.3	217.0	208.7	205.4	203.8
32.5°	1343.6	1035.5	545.1	344.6	273.4	243.5	222.0	202.1	195.5	192.2	190.5
35°	1383.4	1050.4	521.9	324.7	258.5	228.6	208.7	188.9	183.9	180.6	180.6
37.5°	1429.8	1063.6	507.0	309.8	246.9	217.0	197.2	180.6	175.6	174.0	172.3
40°	1472.8	1080.2	502.0	298.2	236.9	207.1	187.2	170.6	167.3	165.7	165.7
42.5°	1512.6	1096.8	495.4	288.3	225.3	197.2	178.9	165.7	160.7	159.0	159.0
45°	1552.4	1106.7	483.8	278.3	213.7	188.9	174.0	159.0	154.1	150.8	150.8
47.5°	1592.1	1120.0	467.2	266.7	203.8	182.2	167.3	152.4	147.5	144.1	144.1
50°	1628.6	1126.6	452.3	250.2	192.2	172.3	159.0	145.8	140.8	135.9	135.9
52.5°	1661.7	1133.2	429.1	235.3	182.2	164.0	152.4	139.2	130.9	124.3	122.6
55°	1686.6	1136.5	402.6	212.1	169.0	154.1	144.1	130.9	114.3	102.7	99.4
57.5°	1686.6	1133.2	372.8	187.2	155.7	142.5	135.9	119.3	92.8	79.5	77.9
60°	1661.7	1105.0	341.3	160.7	140.8	130.9	125.9	102.7	76.2	64.6	63.0
62.5°	1587.2	1055.3	301.5	139.2	125.9	119.3	114.3	87.8	63.0	53.0	51.4
65°	1448.0	934.4	253.5	122.6	112.7	109.3	102.7	74.6	53.0	43.1	43.1
66°	1381.7	879.7	235.3	117.6	107.7	104.4	96.1	69.6	48.0	38.1	36.4
67.5°	1250.8	790.3	207.1	109.3	99.4	99.4	89.5	63.0	38.1	28.2	28.2
70°	1017.2	629.6	169.0	97.7	89.5	84.5	74.6	48.0	28.2	19.9	18.2
72.5°	782.0	478.8	140.8	87.8	82.8	71.2	61.3	39.8	21.5	13.3	13.3
75°	578.2	347.9	122.6	76.2	69.6	56.3	53.0	29.8	14.9	8.3	8.3
77.5°	396.0	243.5	114.3	64.6	54.7	44.7	41.4	21.5	9.9	5.0	3.3
80°	265.1	162.4	91.1	48.0	43.1	33.1	24.9	11.6	5.0	0.0	0.0
82.5°	164.0	96.1	54.7	34.8	24.9	18.2	13.3	5.0	1.7	0.0	0.0
85°	53.0	33.1	19.9	6.6	5.0	3.3	1.7	1.7	0.0	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	1.7	1.7	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)