

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: P1503019

Luminaire Tested: PRV-P-90-8540-U-T3RE

Issue Date: 07/22/2026

Test Information

Test Method: LM-79-2024
Report Number: P1503019
Test Lab: INNOVATION CENTER(G3)
Issue Date: 7/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: PRV-P-90-8540-U-T3RE
Description: PREVAIL PETITE DISCRETE LED 2 SQUARES 90W 85CRI 4000k FIXTURE w/ TYPE III
ROADWAY ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (20) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10966.6 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

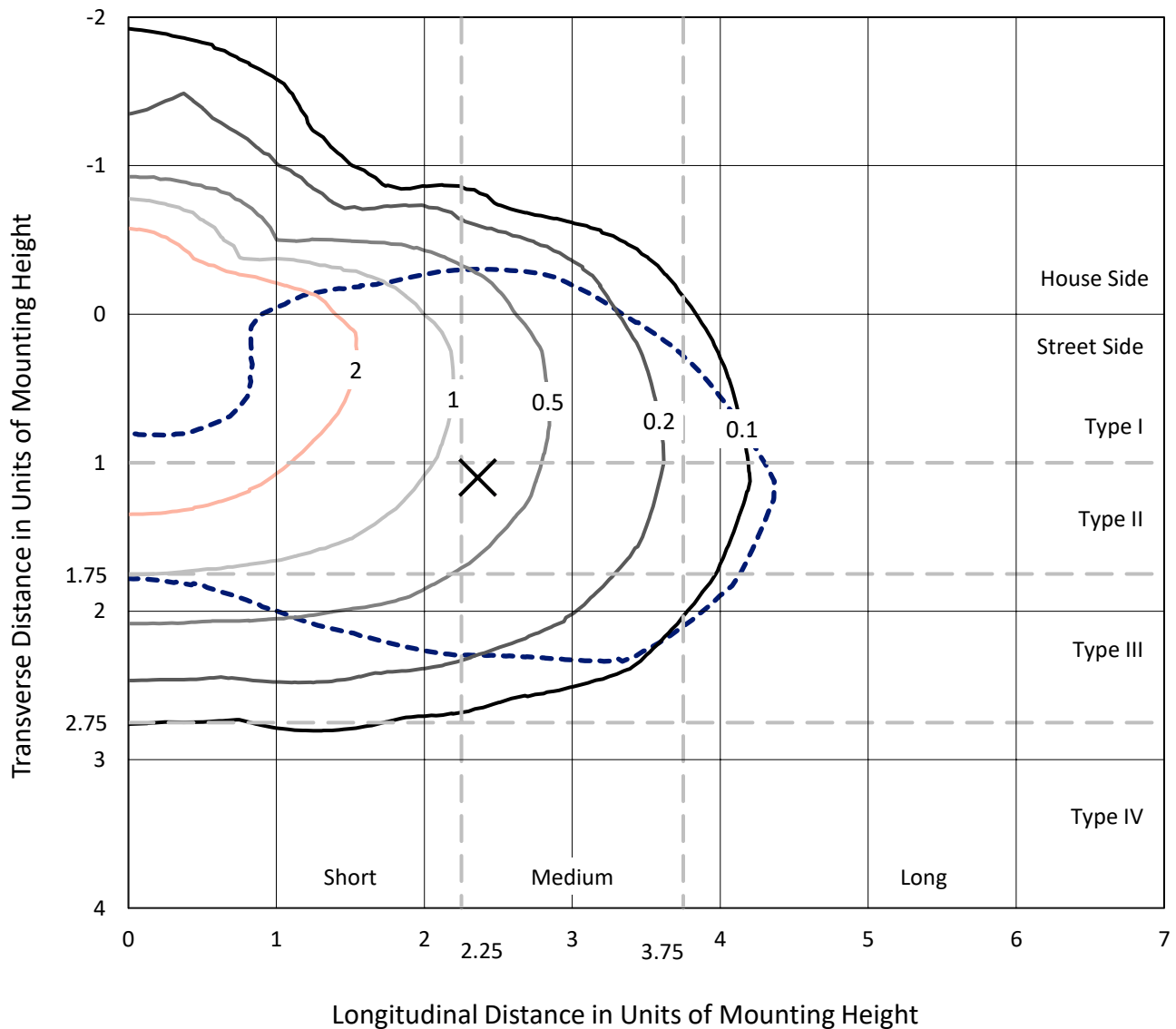
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 6.0%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

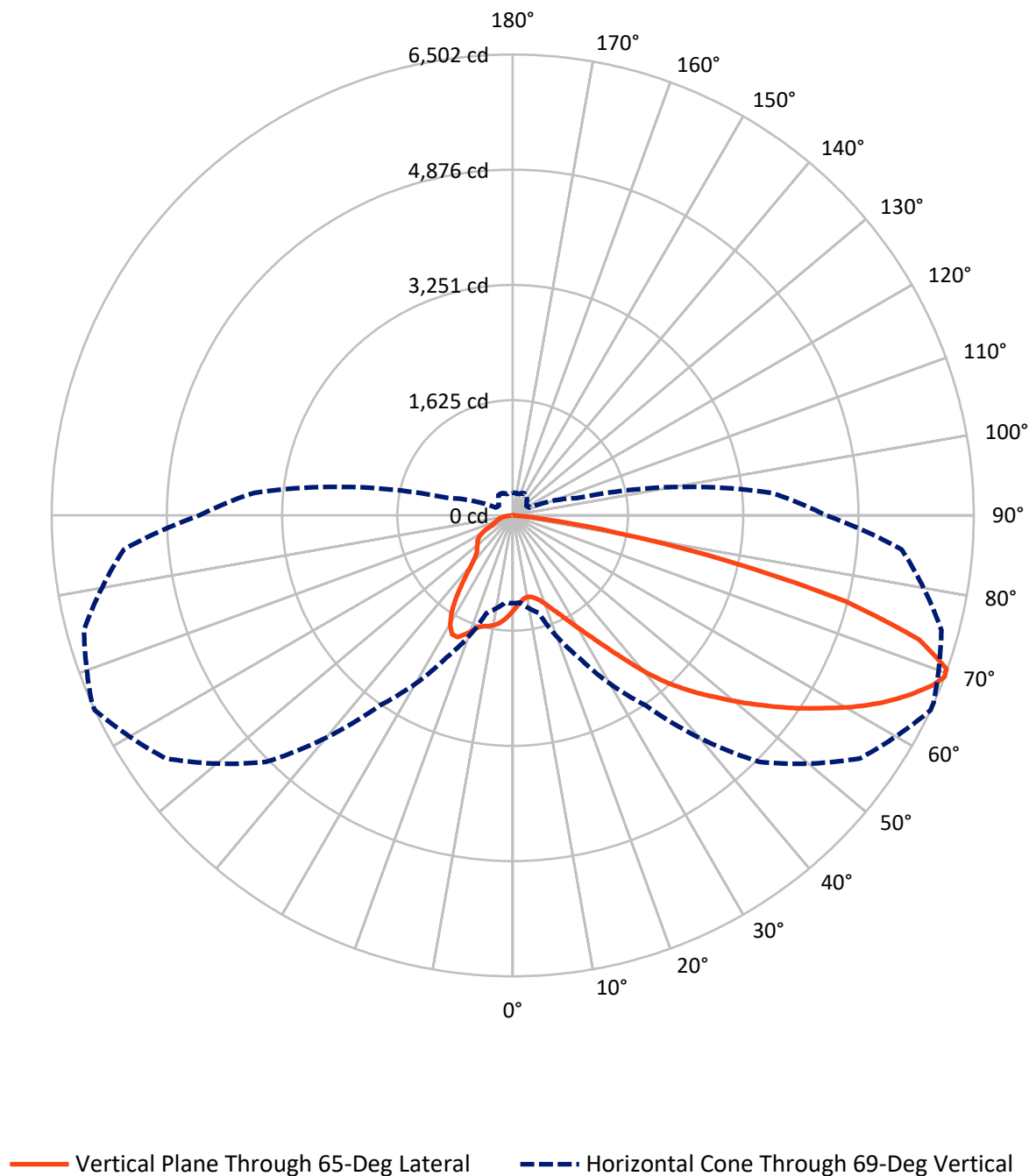


Based on 20 foot mounting height. Maximum calculated value = 4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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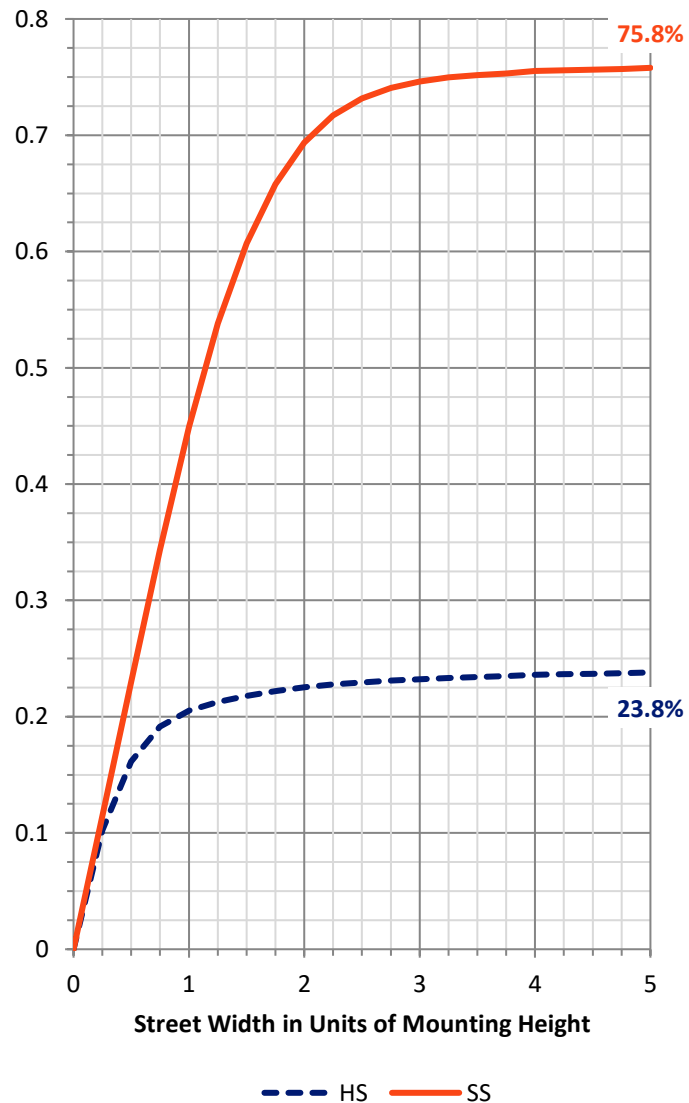
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2632.9	0.0	2632.9
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	8333.7	0.0	8333.7
	% Fixture	76.0	0.0	76.0
Total	Lumens	10966.6	0.0	10966.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.2
10°-20°	424.0	3.9
20°-30°	781.5	7.1
30°-40°	1217.5	11.1
40°-50°	1795.3	16.4
50°-60°	2385.1	21.7
60°-70°	2638.2	24.1
70°-80°	1467.5	13.4
80°-90°	130.1	1.2
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°	10966.6	100.0
0°-180°	10966.6	100.0

Coefficient of Utilization



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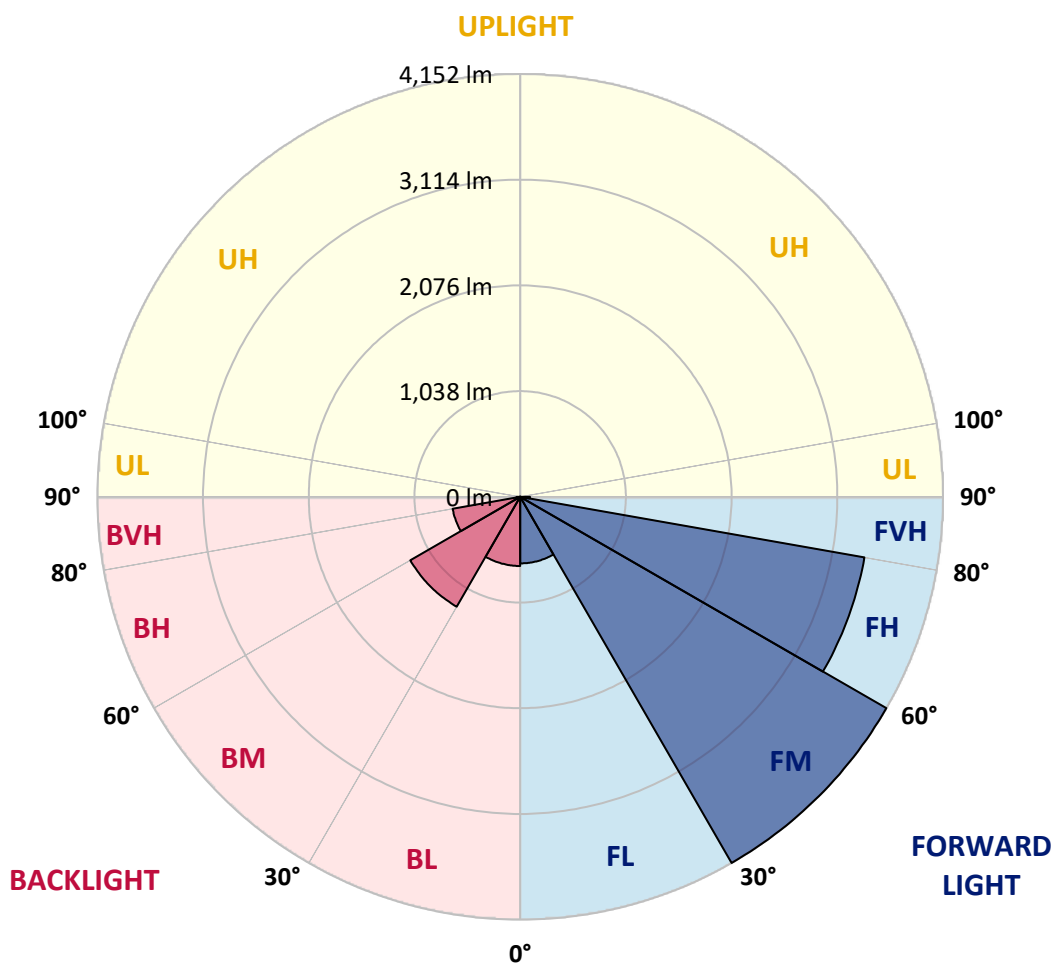
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.6	6.0			
FM	(30°-60°)	4152.2	37.9			
FH	(60°-80°)	3432.6	31.3			G2/5000
FVH	(80°-90°)	95.4	0.9			G1/100
BL	(0°-30°)	679.4	6.2	B2/1000		
BM	(30°-60°)	1245.7	11.4	B2/2500		
BH	(60°-80°)	673.1	6.1	B2/1000		G2/1000
BVH	(80°-90°)	34.7	0.3			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2
2.5°	1190.8	1183.8	1193.2	1204.9	1223.7	1233.1	1254.3	1273.1	1277.8	1298.9	1327.1
5°	1087.5	1087.5	1096.9	1108.6	1127.4	1146.2	1181.4	1219.0	1226.1	1270.7	1329.4
7.5°	1080.5	1078.1	1082.8	1087.5	1094.5	1106.3	1134.5	1181.4	1188.5	1256.6	1341.2
10°	1132.1	1132.1	1127.4	1127.4	1118.0	1115.7	1127.4	1167.4	1174.4	1256.6	1369.4
12.5°	1219.0	1219.0	1212.0	1200.2	1179.1	1160.3	1153.3	1179.1	1183.8	1270.7	1418.7
15°	1322.4	1324.7	1313.0	1291.8	1261.3	1223.7	1197.9	1212.0	1216.7	1296.5	1475.0
17.5°	1442.2	1446.9	1428.1	1402.2	1355.3	1305.9	1266.0	1263.7	1263.7	1343.5	1552.6
20°	1576.0	1569.0	1550.2	1524.4	1463.3	1406.9	1355.3	1338.8	1336.5	1414.0	1648.9
22.5°	1733.4	1735.8	1695.8	1646.5	1590.1	1522.0	1461.0	1437.5	1437.5	1505.6	1766.3
25°	1933.1	1926.0	1872.0	1801.5	1724.0	1651.2	1580.7	1547.9	1557.3	1627.7	1919.0
27.5°	2142.1	2132.7	2064.6	1973.0	1869.6	1785.1	1719.3	1688.8	1691.1	1778.0	2085.7
30°	2360.5	2353.5	2266.6	2153.9	2034.1	1937.8	1869.6	1853.2	1857.9	1968.3	2285.4
32.5°	2597.8	2574.3	2478.0	2360.5	2222.0	2111.6	2055.2	2050.5	2052.9	2186.7	2501.5
35°	2870.2	2835.0	2719.9	2588.4	2433.4	2323.0	2264.2	2292.4	2306.5	2489.7	2729.3
37.5°	3131.0	3102.8	2983.0	2839.7	2684.7	2557.8	2506.2	2583.7	2607.2	2802.1	3058.1
40°	3377.6	3363.5	3241.4	3081.6	2954.8	2818.6	2766.9	2926.6	2945.4	3159.1	3358.8
42.5°	3605.4	3591.3	3492.7	3349.4	3222.6	3058.1	3034.7	3241.4	3262.5	3502.1	3664.1
45°	3760.4	3755.7	3704.1	3600.7	3499.7	3349.4	3293.0	3539.6	3579.6	3814.5	3915.5
47.5°	3849.7	3849.7	3852.0	3826.2	3774.5	3626.6	3598.4	3823.9	3868.5	4091.6	4183.2
50°	3880.2	3877.9	3915.5	3978.9	4002.4	3915.5	3908.4	4136.2	4166.8	4394.6	4434.5
52.5°	3826.2	3835.6	3920.2	4056.4	4192.6	4185.6	4239.6	4455.7	4493.3	4676.5	4645.9
55°	3692.3	3711.1	3845.0	4086.9	4333.5	4434.5	4547.3	4796.3	4829.1	4972.4	4840.9
57.5°	3535.0	3530.3	3685.3	4042.3	4439.2	4692.9	4885.5	5129.8	5148.6	5249.6	5028.8
60°	3340.0	3354.1	3480.9	3903.7	4500.3	4946.6	5228.4	5489.2	5489.2	5526.7	5195.6
62.5°	2978.3	3013.5	3203.8	3694.7	4451.0	5129.8	5559.6	5825.0	5822.7	5789.8	5343.5
65°	2259.6	2294.8	2590.7	3323.6	4281.9	5251.9	5836.8	6125.7	6139.8	6043.5	5500.9
67.5°	1599.5	1606.6	1834.4	2661.2	3734.6	5165.0	5998.8	6391.1	6381.7	6203.2	5564.3
69°	1237.8	1235.5	1425.7	2210.2	3271.9	4916.1	5975.4	6501.5	6496.8	6259.6	5505.6
70°	1028.8	1017.0	1169.7	1947.2	2863.2	4573.1	5818.0	6489.7	6489.7	6245.5	5383.5
72.5°	561.4	575.5	643.6	1251.9	1886.1	3462.1	5094.6	5994.2	6038.8	5780.4	4582.5
75°	396.9	387.6	373.5	544.9	911.3	2005.9	3915.5	4852.6	4956.0	4725.8	3410.5
77.5°	359.4	347.6	295.9	263.1	338.2	756.3	2553.2	3102.8	3189.7	3302.4	2219.6
80°	314.7	310.0	246.6	192.6	218.4	223.1	1035.8	1493.8	1592.5	1648.9	967.7
82.5°	241.9	251.3	199.6	126.8	140.9	143.3	166.8	486.2	544.9	537.9	253.7
85°	103.3	115.1	112.7	65.8	72.8	77.5	75.2	89.3	108.0	82.2	58.7
87.5°	2.3	2.3	2.3	9.4	11.7	11.7	11.7	14.1	11.7	11.7	7.0
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°	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2
2.5°	1341.2	1355.3	1383.4	1406.9	1432.8	1439.8	1456.3	1456.3	1472.7	1477.4	1477.4
5°	1357.6	1385.8	1435.1	1475.0	1500.9	1505.6	1510.3	1505.6	1507.9	1507.9	1505.6
7.5°	1383.4	1425.7	1489.1	1529.1	1536.1	1515.0	1503.2	1493.8	1498.5	1500.9	1498.5
10°	1430.4	1479.7	1550.2	1569.0	1543.2	1517.3	1529.1	1559.6	1590.1	1606.6	1613.6
12.5°	1491.5	1550.2	1616.0	1594.8	1562.0	1578.4	1644.2	1691.1	1724.0	1738.1	1747.5
15°	1564.3	1632.4	1667.7	1613.6	1623.0	1705.2	1752.2	1764.0	1749.9	1745.2	1752.2
17.5°	1648.9	1717.0	1707.6	1646.5	1740.5	1787.4	1756.9	1714.6	1674.7	1663.0	1667.7
20°	1754.6	1808.6	1740.5	1728.7	1822.7	1771.0	1672.3	1601.9	1566.7	1564.3	1566.7
22.5°	1869.6	1900.2	1775.7	1813.3	1829.7	1663.0	1526.7	1484.4	1489.1	1503.2	1512.6
25°	2001.2	1994.1	1815.6	1886.1	1731.1	1489.1	1404.6	1404.6	1414.0	1428.1	1430.4
27.5°	2163.2	2097.5	1895.5	1881.4	1564.3	1334.1	1315.3	1320.0	1320.0	1334.1	1341.2
30°	2308.9	2189.1	1987.1	1787.4	1322.4	1212.0	1221.4	1226.1	1216.7	1214.3	1226.1
32.5°	2468.6	2273.6	2081.0	1625.4	1129.8	1108.6	1113.3	1122.7	1111.0	1101.6	1108.6
35°	2644.8	2351.2	2139.8	1406.9	1010.0	1002.9	1007.6	1002.9	993.5	979.5	986.5
37.5°	2853.8	2468.6	2156.2	1143.9	909.0	911.3	906.6	876.1	847.9	808.0	826.8
40°	3088.7	2668.2	2128.0	918.4	826.8	829.1	791.5	730.5	657.7	606.0	613.0
42.5°	3288.3	2867.9	2069.3	786.8	761.0	754.0	688.2	589.6	523.8	483.9	486.2
45°	3473.9	3072.2	2001.2	718.7	718.7	692.9	584.9	516.7	462.7	420.4	420.4
47.5°	3650.0	3264.8	1914.3	688.2	678.8	617.7	530.8	469.8	427.5	385.2	380.5
50°	3809.8	3438.7	1799.2	655.3	638.9	547.3	488.6	434.5	411.0	366.4	361.7
52.5°	3953.0	3558.4	1693.5	624.8	589.6	486.2	446.3	415.7	429.8	378.2	368.8
55°	4079.9	3614.8	1637.1	606.0	509.7	418.1	415.7	429.8	465.1	406.3	389.9
57.5°	4190.3	3626.6	1634.8	568.4	429.8	361.7	394.6	415.7	507.3	427.5	413.4
60°	4288.9	3626.6	1721.7	509.7	357.0	331.2	380.5	389.9	439.2	408.7	408.7
62.5°	4399.3	3685.3	1853.2	441.6	305.3	312.4	382.9	378.2	382.9	399.3	408.7
65°	4540.2	3830.9	1745.2	328.8	272.5	300.6	368.8	373.5	366.4	375.8	389.9
67.5°	4559.0	3821.5	1289.5	284.2	249.0	288.9	357.0	366.4	326.5	328.8	345.3
69°	4418.1	3659.4	944.2	265.4	237.2	279.5	350.0	345.3	312.4	319.4	319.4
70°	4241.9	3490.3	777.5	256.0	230.2	274.8	340.6	338.2	312.4	312.4	298.3
72.5°	3546.7	2806.8	422.8	227.8	213.7	258.4	321.8	305.3	328.8	286.6	263.1
75°	2621.3	1909.6	213.7	204.3	195.0	237.2	298.3	265.4	352.3	244.3	234.9
77.5°	1740.5	1061.7	178.5	180.9	171.5	211.4	256.0	223.1	251.3	178.5	166.8
80°	775.1	460.4	148.0	150.3	143.3	169.1	206.7	169.1	157.4	94.0	98.6
82.5°	209.0	162.1	117.4	112.7	108.0	115.1	126.8	110.4	77.5	32.9	11.7
85°	65.8	63.4	58.7	63.4	56.4	49.3	54.0	42.3	25.8	4.7	0.0
87.5°	4.7	4.7	7.0	4.7	4.7	2.3	0.0	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)