

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: P1502915

Luminaire Tested: PRV-P-90-8540-U-T2RE

Issue Date: 07/22/2026

Test Information

Test Method: LM-79-2024
Report Number: P1502915
Test Lab: INNOVATION CENTER(G3)
Issue Date: 7/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: PRV-P-90-8540-U-T2RE
Description: PREVAIL PETITE DISCRETE LED 2 SQUARES 90W 85CRI 4000k FIXTURE w/ TYPE II
ROADWAY ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (20) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11016.7 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
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

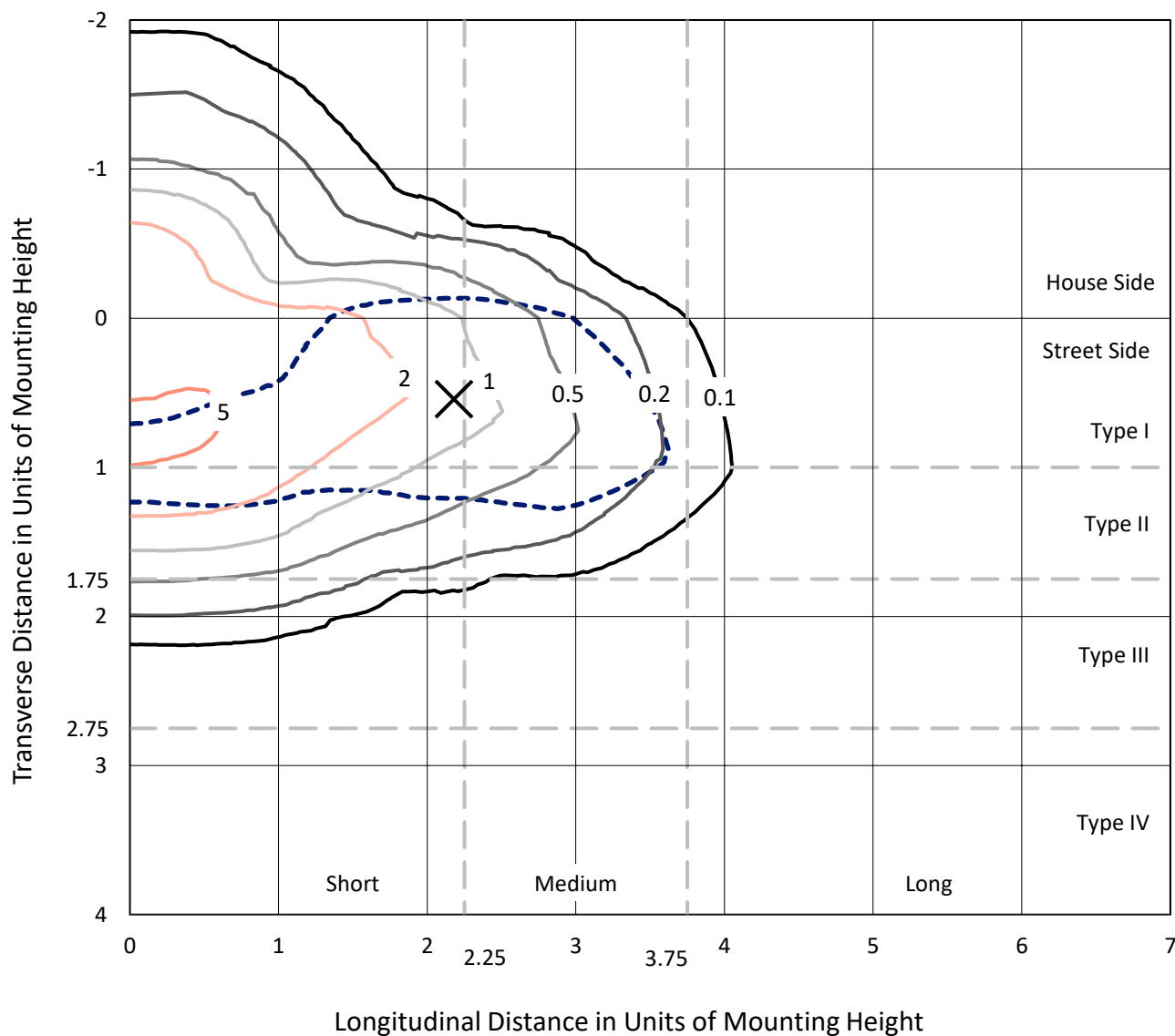
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



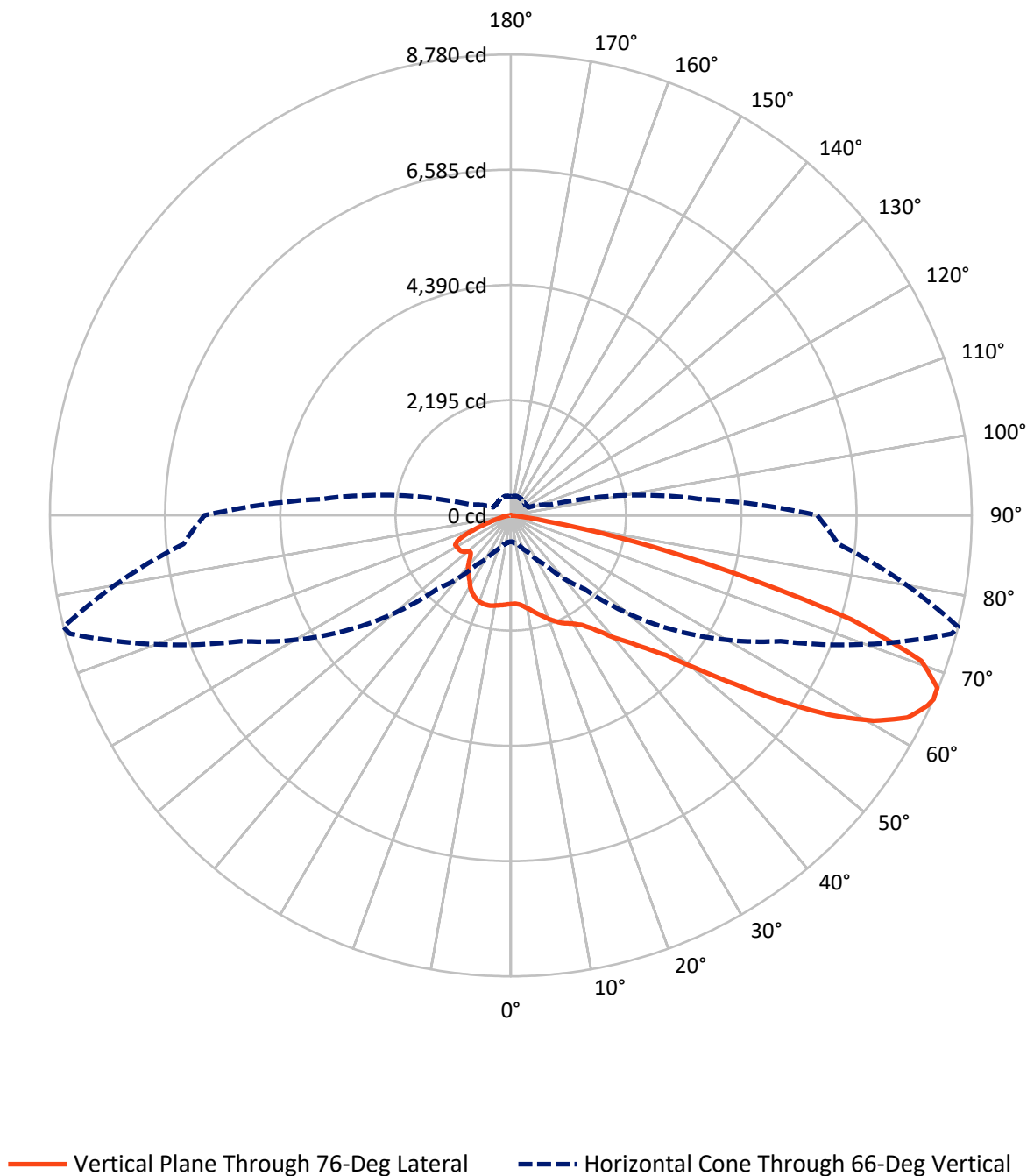
Based on 20 foot mounting height. Maximum calculated value = 5.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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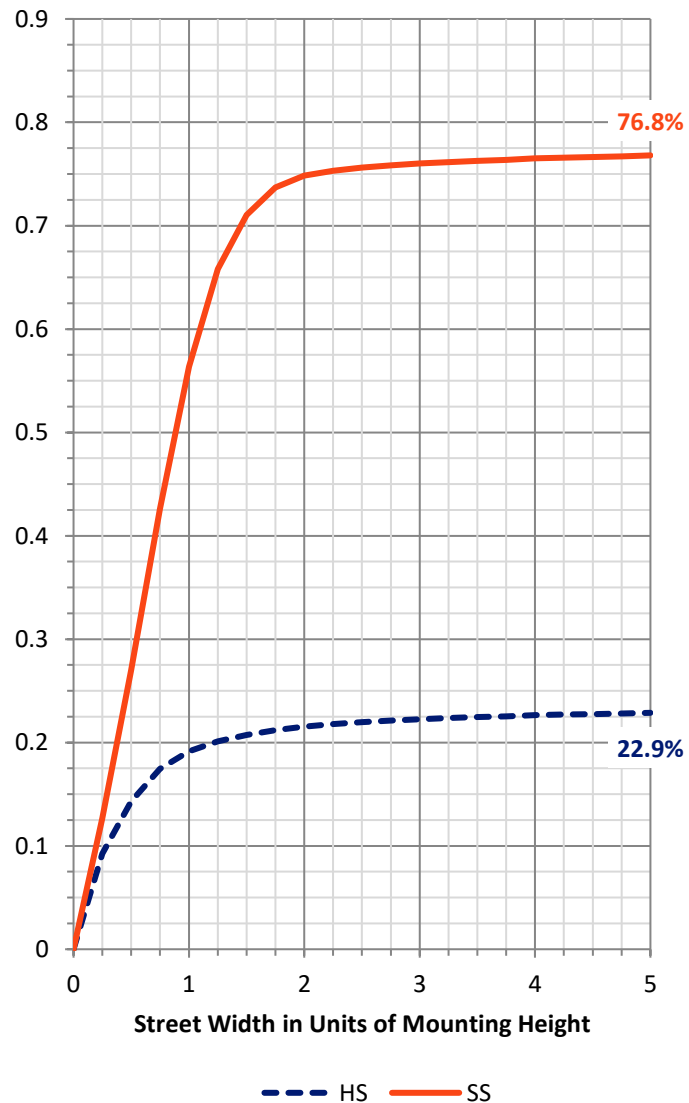
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.4	0.0	2536.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	8480.3	0.0	8480.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	11016.7	0.0	11016.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	1.4
10°-20°	465.7	4.2
20°-30°	886.0	8.0
30°-40°	1542.7	14.0
40°-50°	2236.2	20.3
50°-60°	2567.2	23.3
60°-70°	2144.5	19.5
70°-80°	927.2	8.4
80°-90°	88.5	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°	11016.7	100.0
0°-180°	11016.7	100.0

Coefficient of Utilization



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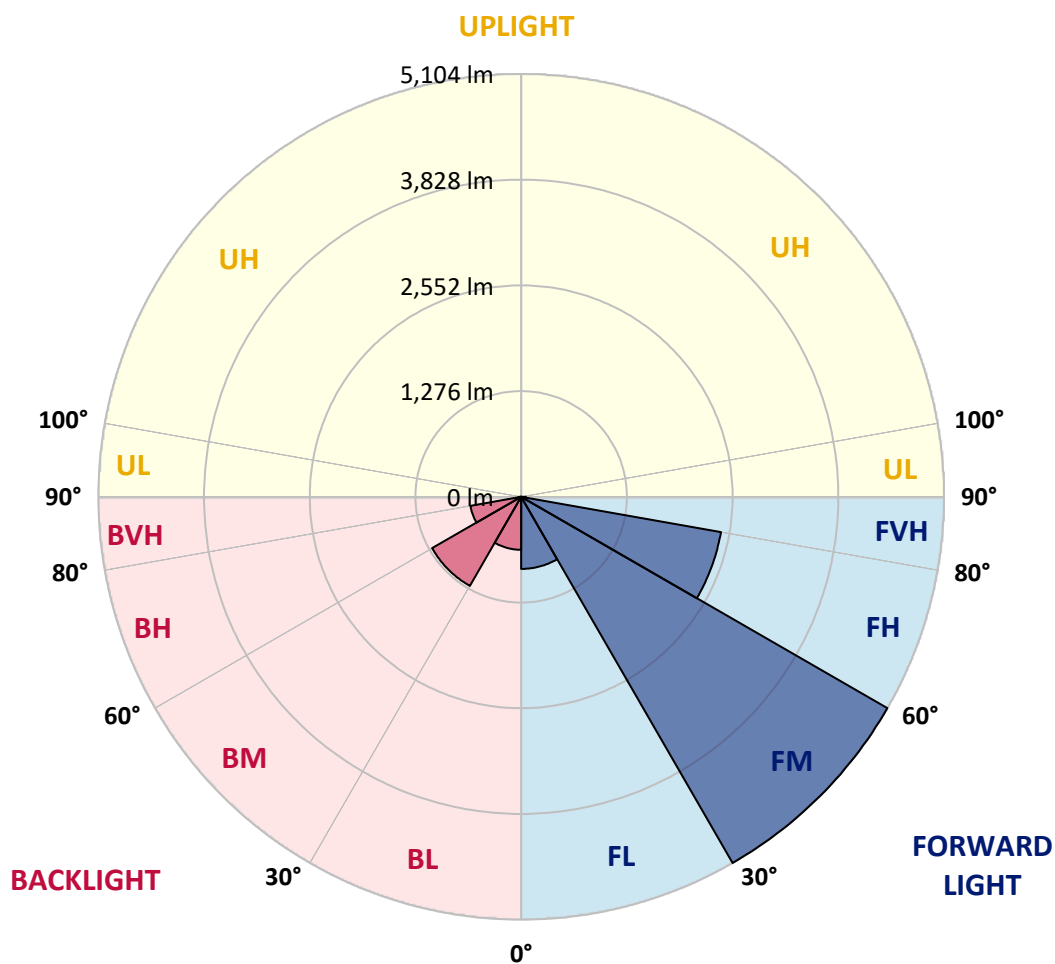
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	870.2	7.9			
FM	(30°-60°)	5104.4	46.3			
FH	(60°-80°)	2449.2	22.2			G2/5000
FVH	(80°-90°)	56.5	0.5			G1/100
BL	(0°-30°)	640.0	5.8	B2/1000		
BM	(30°-60°)	1241.8	11.3	B2/2500		
BH	(60°-80°)	622.5	5.7	B2/1000		G2/1000
BVH	(80°-90°)	32.0	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5
2.5°	1698.2	1702.9	1710.0	1710.0	1710.0	1698.2	1695.9	1688.8	1688.8	1684.1	1691.2
5°	1700.6	1705.3	1721.7	1740.5	1752.2	1747.5	1740.5	1719.4	1705.3	1702.9	1705.3
7.5°	1550.2	1554.9	1583.1	1623.1	1672.4	1719.4	1771.0	1773.4	1742.9	1747.5	1733.5
10°	1458.6	1456.3	1470.4	1496.2	1562.0	1646.5	1735.8	1808.6	1806.3	1803.9	1785.1
12.5°	1505.6	1505.6	1508.0	1517.4	1533.8	1576.1	1700.6	1820.4	1869.7	1872.0	1846.2
15°	1616.0	1613.7	1611.3	1616.0	1606.6	1604.3	1672.4	1822.7	1947.2	1947.2	1930.8
17.5°	1728.8	1728.8	1738.2	1747.5	1745.2	1707.6	1710.0	1843.9	2022.4	2024.7	2017.7
20°	1895.5	1888.5	1897.9	1909.6	1904.9	1867.3	1811.0	1879.1	2102.2	2114.0	2118.7
22.5°	2092.8	2081.1	2092.8	2099.9	2097.5	2036.5	1968.3	1944.9	2172.7	2191.5	2231.4
25°	2341.8	2327.7	2353.6	2362.9	2344.2	2273.7	2158.6	2045.9	2243.2	2271.3	2332.4
27.5°	2701.2	2687.1	2705.9	2722.3	2680.0	2557.9	2388.8	2177.4	2304.2	2330.1	2421.7
30°	3220.3	3250.8	3180.4	3145.1	3072.3	2893.8	2666.0	2348.9	2370.0	2395.8	2501.5
32.5°	3823.9	3826.3	3772.3	3596.1	3485.7	3279.0	2990.1	2588.4	2471.0	2489.8	2576.7
35°	4331.3	4319.5	4267.9	4159.8	3934.3	3690.1	3342.4	2858.6	2609.6	2635.4	2670.6
37.5°	4718.9	4711.8	4711.8	4613.2	4415.9	4110.5	3715.9	3178.0	2816.3	2832.7	2802.2
40°	5035.9	5026.6	5054.7	5028.9	4878.6	4528.6	4063.5	3455.2	3058.2	3077.0	2938.4
42.5°	5310.8	5294.3	5327.2	5341.3	5254.4	4944.3	4425.2	3753.5	3302.5	3304.8	3098.1
45°	5580.9	5578.5	5616.1	5637.3	5571.5	5259.1	4740.0	4098.8	3593.8	3612.5	3309.5
47.5°	5364.8	5383.6	5545.7	5745.3	5829.9	5557.4	5047.7	4432.3	3979.0	3971.9	3570.3
50°	4678.9	4756.4	5071.2	5479.9	5829.9	5780.5	5329.6	4810.5	4512.2	4582.6	4028.3
52.5°	3774.6	3751.1	4213.8	4857.4	5508.1	5743.0	5590.3	5235.6	5280.2	5334.3	4521.5
55°	2947.8	2999.5	3354.2	4070.6	4798.7	5385.9	5703.0	5714.8	6170.4	6236.2	4996.0
57.5°	2503.9	2550.9	2825.7	3476.3	4068.2	4716.5	5566.8	6219.8	7077.1	7178.1	5451.7
60°	1808.6	1832.1	2144.5	2776.3	3575.0	3887.4	5153.4	6513.4	7918.0	7941.5	5860.4
62.5°	1033.5	1066.4	1249.6	1832.1	2748.2	3356.5	4549.7	6473.4	8458.2	8484.1	6231.5
65°	563.7	587.2	700.0	995.9	1576.1	2602.5	3979.0	5973.1	8674.3	8728.4	6334.9
66°	500.3	509.7	582.5	770.4	1150.9	1977.7	3816.9	5670.1	8700.2	8780.0	6259.7
67.5°	481.5	481.5	521.4	622.4	763.4	1315.4	3403.5	5280.2	8650.8	8763.6	6071.8
70°	467.4	469.8	502.7	528.5	495.6	453.3	2106.9	4761.1	8066.0	8296.2	5611.4
72.5°	427.5	427.5	472.1	498.0	404.0	284.2	822.1	4021.2	6609.7	6778.8	4683.6
75°	354.7	359.4	404.0	443.9	373.5	232.5	246.6	2299.5	4307.8	4357.1	3159.2
77.5°	274.8	281.9	333.5	350.0	338.2	213.7	199.7	892.6	2358.3	2414.6	1477.4
80°	197.3	204.4	253.7	277.2	270.1	206.7	171.5	279.5	754.0	711.7	453.3
82.5°	124.5	124.5	155.0	199.7	185.6	178.5	140.9	169.1	220.8	218.4	157.4
85°	44.6	49.3	70.5	89.3	84.6	94.0	82.2	94.0	103.3	98.7	61.1
87.5°	2.3	2.3	2.3	4.7	4.7	9.4	9.4	11.7	9.4	11.7	11.7
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°	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5
2.5°	1691.2	1691.2	1695.9	1700.6	1705.3	1695.9	1693.5	1693.5	1684.1	1686.5	1691.2
5°	1705.3	1705.3	1710.0	1705.3	1688.8	1663.0	1646.5	1637.2	1616.0	1618.4	1618.4
7.5°	1731.1	1731.1	1721.7	1688.8	1651.2	1604.3	1573.7	1557.3	1529.1	1533.8	1533.8
10°	1778.1	1771.0	1735.8	1665.3	1594.9	1533.8	1500.9	1477.4	1461.0	1453.9	1456.3
12.5°	1846.2	1834.5	1749.9	1627.8	1526.8	1468.0	1442.2	1425.8	1416.4	1411.7	1414.0
15°	1926.1	1904.9	1749.9	1576.1	1463.3	1409.3	1390.5	1397.6	1409.3	1414.0	1418.7
17.5°	2015.3	1980.1	1738.2	1522.1	1399.9	1362.3	1378.8	1404.6	1428.1	1437.5	1439.8
20°	2111.6	2048.2	1721.7	1458.6	1350.6	1352.9	1390.5	1421.1	1439.8	1446.9	1449.2
22.5°	2207.9	2102.2	1686.5	1385.8	1329.5	1357.6	1395.2	1421.1	1432.8	1437.5	1439.8
25°	2287.8	2132.8	1634.8	1336.5	1320.1	1357.6	1388.2	1407.0	1418.7	1425.8	1428.1
27.5°	2358.3	2139.8	1583.1	1298.9	1313.0	1350.6	1374.1	1392.9	1407.0	1411.7	1414.0
30°	2402.9	2121.0	1508.0	1268.4	1301.3	1334.2	1357.6	1374.1	1385.8	1392.9	1395.2
32.5°	2438.1	2104.6	1407.0	1233.1	1277.8	1315.4	1336.5	1345.9	1350.6	1355.3	1355.3
35°	2473.3	2102.2	1329.5	1188.5	1244.9	1289.5	1296.6	1287.2	1280.1	1268.4	1270.7
37.5°	2510.9	2116.3	1268.4	1134.5	1190.9	1235.5	1226.1	1195.6	1167.4	1129.8	1120.4
40°	2560.3	2123.4	1186.2	1059.3	1118.1	1143.9	1115.7	1059.3	984.2	951.3	951.3
42.5°	2637.8	2165.6	1078.1	972.4	1007.7	1031.1	1003.0	906.7	840.9	812.7	815.1
45°	2802.2	2269.0	972.4	878.5	892.6	916.1	859.7	765.7	721.1	702.3	692.9
47.5°	3084.0	2440.5	887.9	784.5	770.4	791.6	723.4	657.7	610.7	568.4	566.1
50°	3596.1	2797.5	857.3	685.9	664.7	700.0	634.2	587.2	533.2	512.1	509.7
52.5°	4162.2	3241.4	890.2	603.7	594.3	624.8	591.9	533.2	495.6	490.9	490.9
55°	4681.3	3659.5	892.6	554.3	554.3	568.4	537.9	495.6	498.0	493.3	486.2
57.5°	5148.7	3880.3	880.8	528.5	516.7	521.4	505.0	476.8	519.1	462.7	448.6
60°	5604.4	3892.1	885.5	505.0	465.1	460.4	474.5	453.3	495.6	427.5	420.4
62.5°	5865.1	3793.4	911.4	460.4	408.7	397.0	415.7	408.7	441.6	406.4	404.0
65°	5886.2	3678.3	840.9	397.0	368.8	359.4	380.5	378.2	392.3	385.2	387.6
66°	5836.9	3591.4	779.8	373.5	347.6	350.0	368.8	368.8	382.9	364.1	361.7
67.5°	5656.0	3408.2	655.3	335.9	319.4	333.5	352.3	354.7	361.7	345.3	347.6
70°	4998.4	2687.1	451.0	296.0	293.6	310.0	319.4	328.8	335.9	350.0	354.7
72.5°	3840.4	1655.9	310.0	267.8	270.1	286.6	288.9	305.4	350.0	366.4	352.3
75°	2367.6	840.9	239.6	227.8	241.9	256.0	260.7	274.8	354.7	345.3	303.0
77.5°	1146.2	385.2	190.3	190.3	199.7	216.1	218.4	230.2	319.4	251.3	220.8
80°	354.7	202.0	150.3	150.3	155.0	157.4	169.1	183.2	211.4	133.9	136.2
82.5°	145.6	136.2	115.1	108.0	96.3	96.3	96.3	119.8	108.0	56.4	21.1
85°	65.8	56.4	54.0	44.6	42.3	37.6	37.6	58.7	42.3	14.1	0.0
87.5°	7.0	7.0	7.0	7.0	4.7	2.3	2.3	2.3	2.3	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)