

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: P1503175

Luminaire Tested: PRV-P-90-8540-U-T4RE-HSS

Issue Date: 07/22/2026

Test Information

Test Method: LM-79-2024
Report Number: P1503175
Test Lab: INNOVATION CENTER(G3)
Issue Date: 7/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: PRV-P-90-8540-U-T4RE-HSS
Description: PREVAIL PETITE DISCRETE LED 2 SQUARES 90W 85CRI 4000k FIXTURE w/ TYPE IV
ROADWAY ILLUMINANCE 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: 7578.7 lumens
Efficiency: N/A
Efficacy: 80.2 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

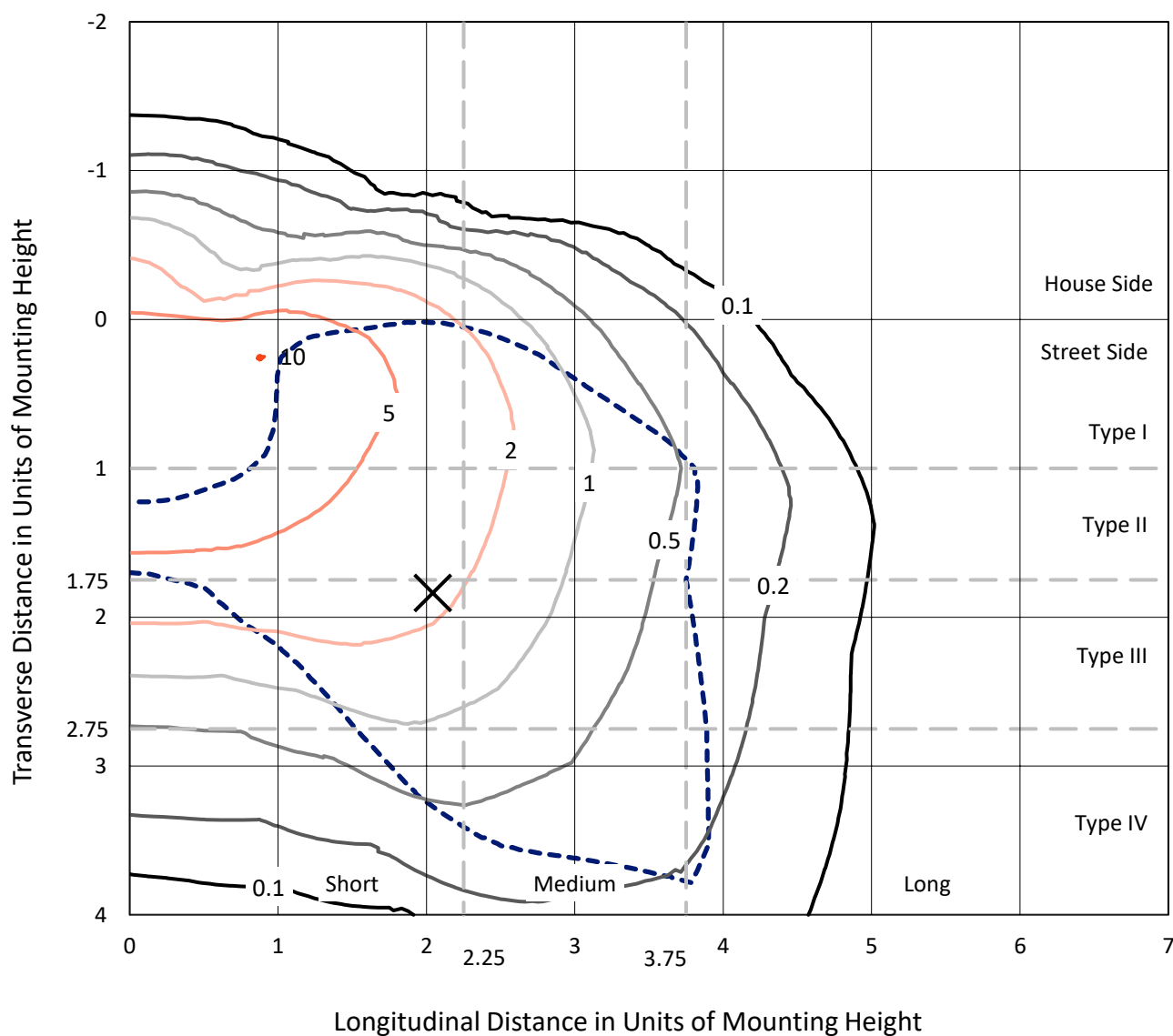
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



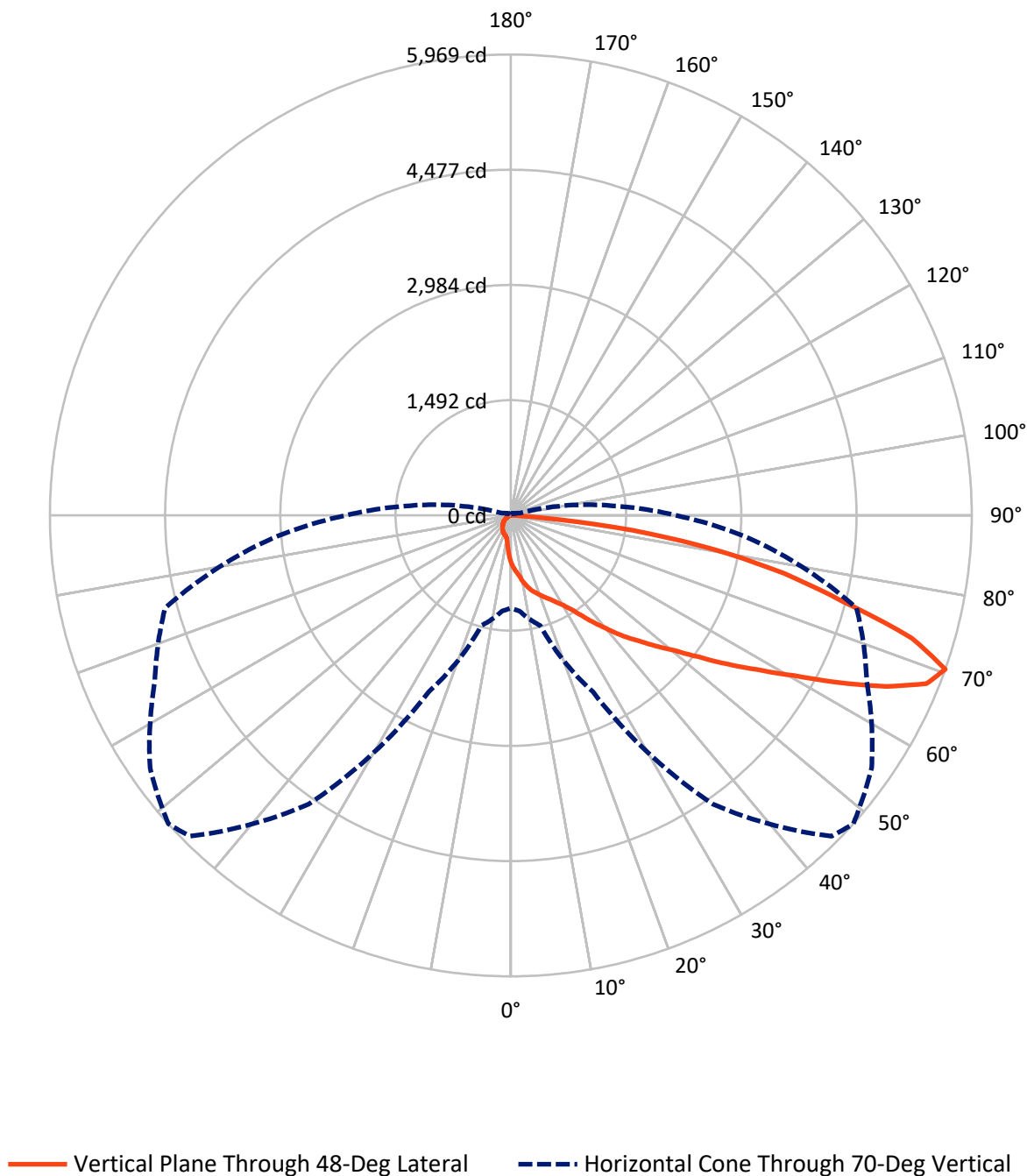
Based on 10 foot mounting height. Maximum calculated value = 10.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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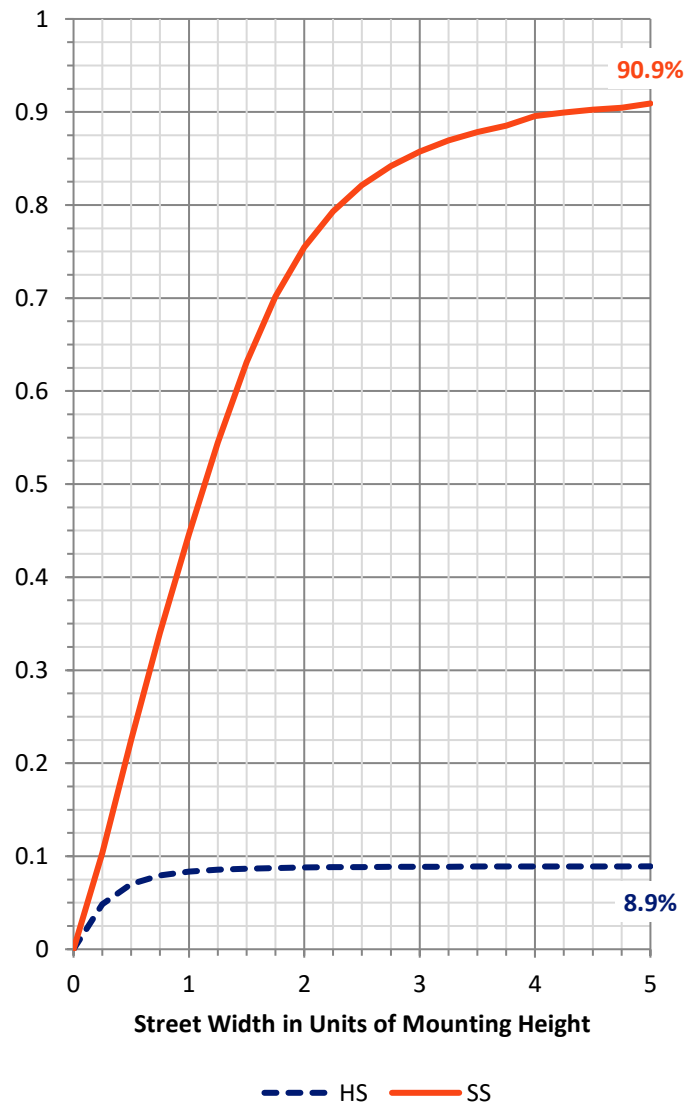
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	680.4	0.0	680.4
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	6898.4	0.0	6898.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	7578.7	0.0	7578.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	0.8
10°-20°	182.0	2.4
20°-30°	330.6	4.4
30°-40°	564.1	7.4
40°-50°	1038.6	13.7
50°-60°	1691.2	22.3
60°-70°	2147.7	28.3
70°-80°	1405.6	18.5
80°-90°	162.1	2.1
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°	7578.7	100.0
0°-180°	7578.7	100.0

Coefficient of Utilization



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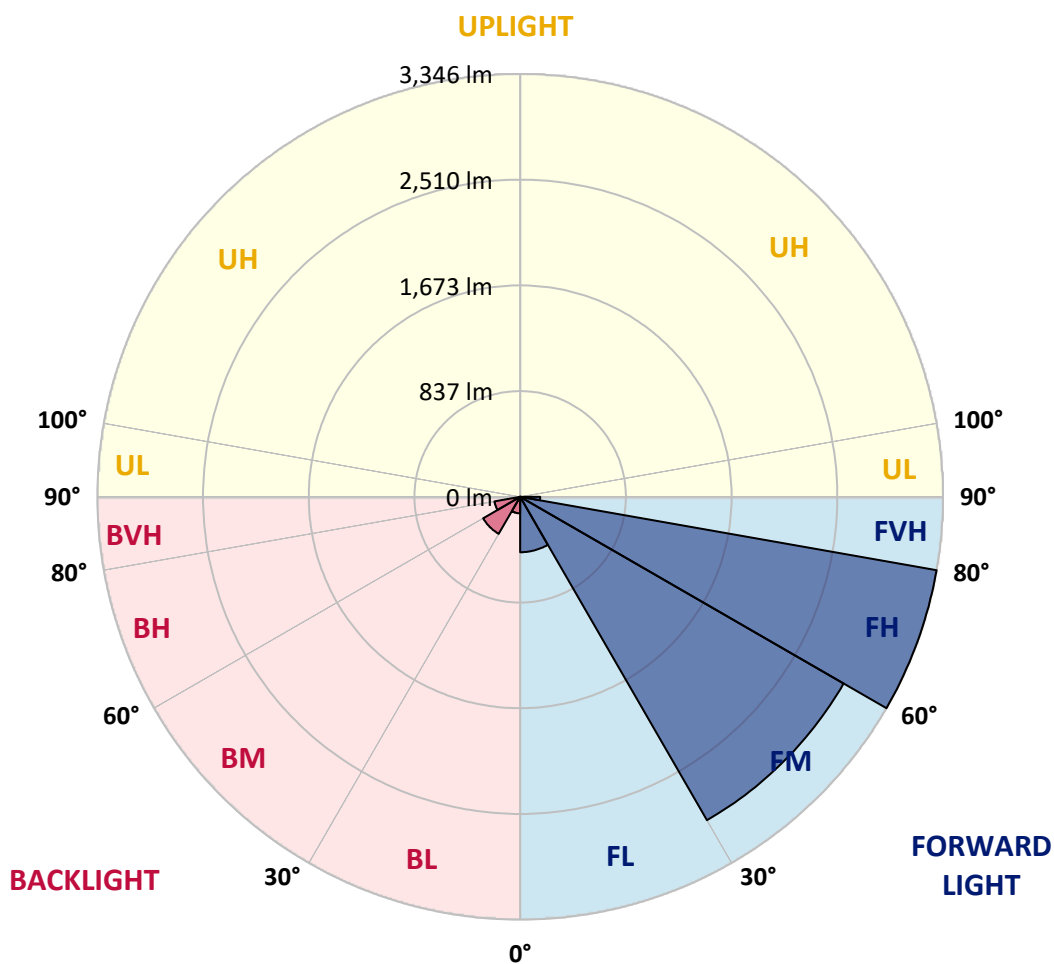
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.6	5.8			
FM	(30°-60°)	2955.3	39.0			
FH	(60°-80°)	3346.4	44.2			G2/5000
FVH	(80°-90°)	158.0	2.1			G2/225
BL	(0°-30°)	130.8	1.7	B1/500		
BM	(30°-60°)	338.5	4.5	B1/1000		
BH	(60°-80°)	206.9	2.7	B1/500		G1/500
BVH	(80°-90°)	4.1	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°	45°	48°	55°	65°	75°	85°
0°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
2.5°	700.0	700.0	697.7	695.3	690.6	681.2	676.5	667.1	655.4	641.3	624.8
5°	791.6	779.9	784.6	775.2	756.4	735.2	730.5	714.1	690.6	664.8	634.2
7.5°	897.3	897.3	885.6	871.5	848.0	803.4	791.6	761.1	723.5	685.9	638.9
10°	981.9	977.2	970.1	958.4	937.3	887.9	873.8	833.9	763.4	707.1	648.3
12.5°	1033.6	1028.9	1024.2	1014.8	993.6	963.1	946.7	909.1	822.2	735.2	664.8
15°	1068.8	1066.5	1061.8	1057.1	1040.6	1021.8	1005.4	977.2	895.0	782.2	688.3
17.5°	1087.6	1087.6	1087.6	1087.6	1082.9	1064.1	1054.7	1035.9	970.1	833.9	711.7
20°	1111.1	1113.4	1113.4	1118.1	1118.1	1113.4	1104.0	1092.3	1043.0	902.0	739.9
22.5°	1136.9	1141.6	1146.3	1155.7	1158.1	1158.1	1155.7	1148.7	1113.4	979.5	772.8
25°	1176.9	1176.9	1181.6	1195.6	1207.4	1216.8	1209.7	1212.1	1181.6	1066.5	812.8
27.5°	1245.0	1235.6	1237.9	1245.0	1263.8	1277.9	1277.9	1277.9	1256.7	1158.1	862.1
30°	1313.1	1313.1	1317.8	1317.8	1334.2	1355.4	1353.0	1360.1	1338.9	1261.4	925.5
32.5°	1400.0	1400.0	1402.4	1414.1	1432.9	1456.4	1456.4	1482.2	1454.0	1378.9	1017.1
35°	1498.7	1501.0	1519.8	1543.3	1562.1	1592.6	1602.0	1637.3	1623.2	1548.0	1146.3
37.5°	1609.1	1616.1	1644.3	1681.9	1693.6	1752.4	1768.8	1801.7	1841.6	1829.9	1376.5
40°	1733.6	1735.9	1773.5	1825.2	1851.0	1916.8	1940.3	2013.1	2114.1	2163.4	1717.1
42.5°	1940.3	1930.9	1942.6	2003.7	2010.8	2095.3	2137.6	2231.6	2393.6	2527.5	2071.8
45°	2269.1	2250.4	2203.4	2175.2	2139.9	2269.1	2316.1	2440.6	2708.4	2854.0	2396.0
47.5°	2614.4	2591.0	2527.5	2471.2	2356.1	2468.8	2525.2	2684.9	2973.8	3145.3	2656.7
50°	2910.4	2901.0	2854.0	2795.3	2663.8	2701.4	2753.0	2969.1	3232.2	3453.0	2896.3
52.5°	3126.5	3119.5	3112.4	3121.8	3009.1	3009.1	3042.0	3258.1	3485.9	3699.7	3105.4
55°	3286.3	3293.3	3300.4	3382.6	3354.4	3335.6	3399.0	3561.1	3751.4	3946.3	3286.3
57.5°	3260.4	3283.9	3469.5	3631.6	3673.9	3742.0	3765.5	3890.0	4030.9	4204.7	3464.8
60°	2898.7	2933.9	3227.5	3873.5	4049.7	4178.9	4209.4	4261.1	4322.2	4514.8	3730.2
62.5°	2518.1	2546.3	2804.7	3833.6	4456.1	4747.3	4761.4	4766.1	4709.8	4897.7	3951.0
65°	2186.9	2215.1	2424.2	3483.6	4806.1	5344.0	5341.6	5238.3	5113.8	5092.7	3875.9
67.5°	1705.4	1750.0	2001.4	2987.9	4853.1	5818.5	5809.1	5625.9	5341.6	4982.2	3528.2
70°	1202.7	1240.3	1477.5	2522.8	4564.1	5874.9	5968.8	5703.4	5085.6	4634.6	3020.8
72.5°	956.0	993.6	1155.7	2029.5	4312.8	5376.9	5430.9	5109.1	4460.8	4012.1	2316.1
75°	568.5	615.4	791.6	1451.7	3901.7	4543.0	4427.9	4301.0	3586.9	3333.2	1693.6
77.5°	246.6	274.8	404.0	775.2	2710.8	3789.0	3619.8	3215.8	2485.3	2248.0	944.3
80°	117.5	124.5	150.3	312.4	1292.0	2713.1	2670.8	2177.5	1369.5	1059.4	345.3
82.5°	61.1	63.4	89.3	129.2	418.1	1432.9	1583.2	1237.9	552.0	305.4	65.8
85°	23.5	28.2	37.6	61.1	77.5	324.2	378.2	415.8	169.1	58.7	28.2
87.5°	2.3	4.7	7.0	9.4	11.7	14.1	14.1	16.4	14.1	7.0	4.7
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°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
2.5°	615.4	606.0	582.6	566.1	545.0	523.8	512.1	495.6	488.6	490.9	488.6
5°	613.1	594.3	547.3	498.0	462.8	425.2	406.4	382.9	375.8	368.8	375.8
7.5°	613.1	580.2	507.4	436.9	385.2	350.0	326.5	314.8	310.1	310.1	310.1
10°	613.1	566.1	469.8	382.9	326.5	298.3	293.6	296.0	298.3	300.7	300.7
12.5°	617.8	559.1	429.9	338.3	286.6	279.5	284.2	288.9	293.6	293.6	296.0
15°	627.2	554.4	399.3	298.3	272.5	272.5	274.8	279.5	284.2	286.6	286.6
17.5°	641.3	549.7	366.4	274.8	263.1	263.1	265.4	267.8	274.8	277.2	277.2
20°	655.4	545.0	338.3	260.7	256.0	256.0	256.0	258.4	263.1	265.4	265.4
22.5°	674.2	542.6	307.7	251.3	246.6	246.6	246.6	246.6	249.0	251.3	251.3
25°	693.0	540.3	279.5	241.9	239.6	237.2	234.9	234.9	234.9	237.2	237.2
27.5°	716.4	537.9	253.7	230.2	227.9	225.5	225.5	220.8	223.2	225.5	223.2
30°	749.3	537.9	234.9	218.5	213.8	213.8	211.4	206.7	209.1	209.1	209.1
32.5°	803.4	556.7	225.5	206.7	199.7	199.7	195.0	192.6	192.6	192.6	192.6
35°	885.6	601.3	227.9	202.0	190.3	183.2	178.5	176.2	173.8	171.5	171.5
37.5°	1019.5	660.1	244.3	204.4	180.9	171.5	164.4	157.4	152.7	148.0	145.6
40°	1263.8	805.7	267.8	213.8	173.8	157.4	148.0	136.2	126.8	122.1	117.5
42.5°	1543.3	993.6	300.7	220.8	169.1	143.3	129.2	115.1	105.7	98.7	96.3
45°	1782.9	1176.9	378.2	223.2	159.7	131.5	112.8	96.3	89.3	82.2	79.9
47.5°	1963.8	1315.4	458.1	218.5	152.7	119.8	96.3	82.2	75.2	68.1	65.8
50°	2132.9	1425.8	516.8	206.7	145.6	108.1	82.2	70.5	63.4	58.7	56.4
52.5°	2264.4	1510.4	556.7	192.6	136.2	96.3	72.8	61.1	54.0	51.7	51.7
55°	2388.9	1595.0	584.9	183.2	124.5	82.2	63.4	56.4	49.3	47.0	47.0
57.5°	2504.0	1691.3	629.5	173.8	105.7	72.8	56.4	51.7	47.0	42.3	39.9
60°	2713.1	1888.6	662.4	140.9	86.9	63.4	51.7	47.0	42.3	37.6	37.6
62.5°	2879.9	2003.7	566.1	91.6	72.8	56.4	49.3	42.3	37.6	32.9	32.9
65°	2809.4	1919.1	389.9	72.8	61.1	51.7	42.3	37.6	30.5	25.8	25.8
67.5°	2536.9	1698.3	234.9	61.1	51.7	44.6	37.6	30.5	23.5	18.8	18.8
70°	2137.6	1374.2	122.1	51.7	42.3	35.2	28.2	23.5	16.4	14.1	11.7
72.5°	1653.7	925.5	61.1	44.6	37.6	30.5	23.5	18.8	11.7	9.4	7.0
75°	1141.6	577.9	47.0	37.6	30.5	23.5	18.8	14.1	7.0	4.7	4.7
77.5°	601.3	284.2	37.6	32.9	25.8	21.1	14.1	9.4	4.7	2.3	2.3
80°	225.5	84.6	30.5	25.8	21.1	16.4	9.4	4.7	2.3	0.0	0.0
82.5°	42.3	25.8	18.8	18.8	14.1	9.4	4.7	2.3	0.0	0.0	0.0
85°	21.1	14.1	7.0	7.0	4.7	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	4.7	4.7	2.3	2.3	2.3	2.3	2.3	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)