

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: P1461530

Luminaire Tested: USSL-70-8540-U-T2R-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461530
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-70-8540-U-T2R-HSS
Description: USSL DISCRETE LED 1 SQUARE 70W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY
DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7196.2 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.73%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

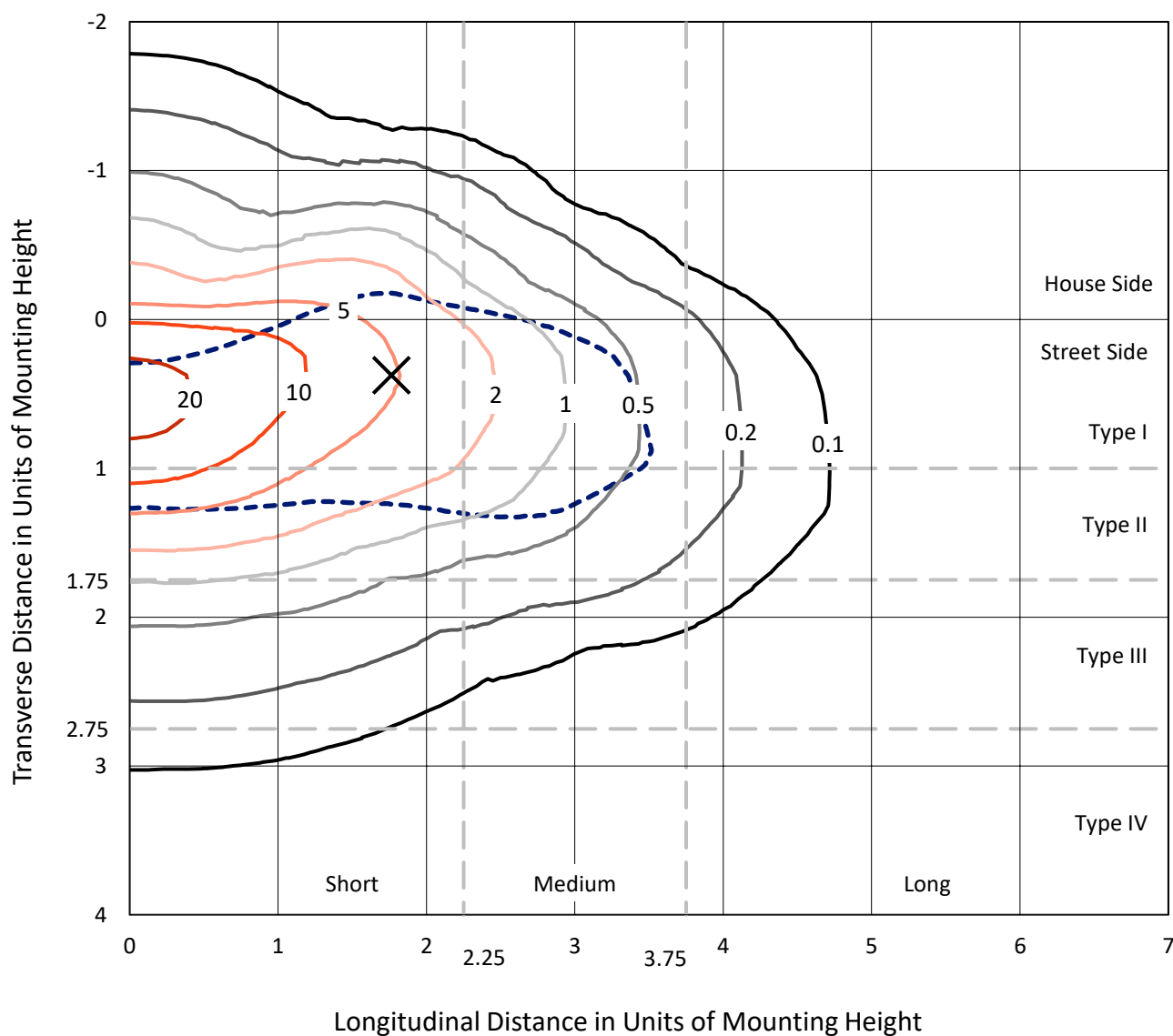
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



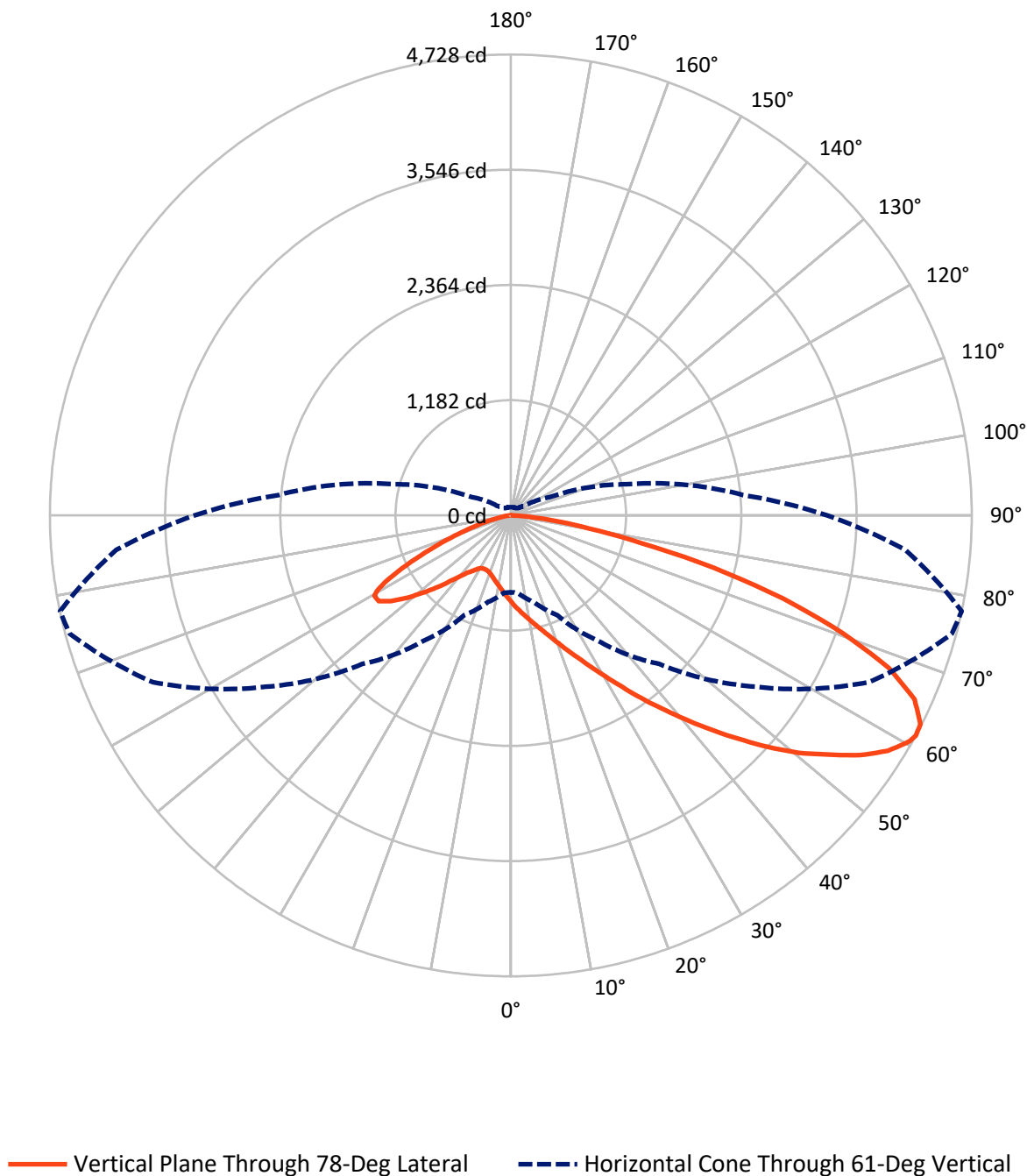
Based on 10 foot mounting height. Maximum calculated value = 24.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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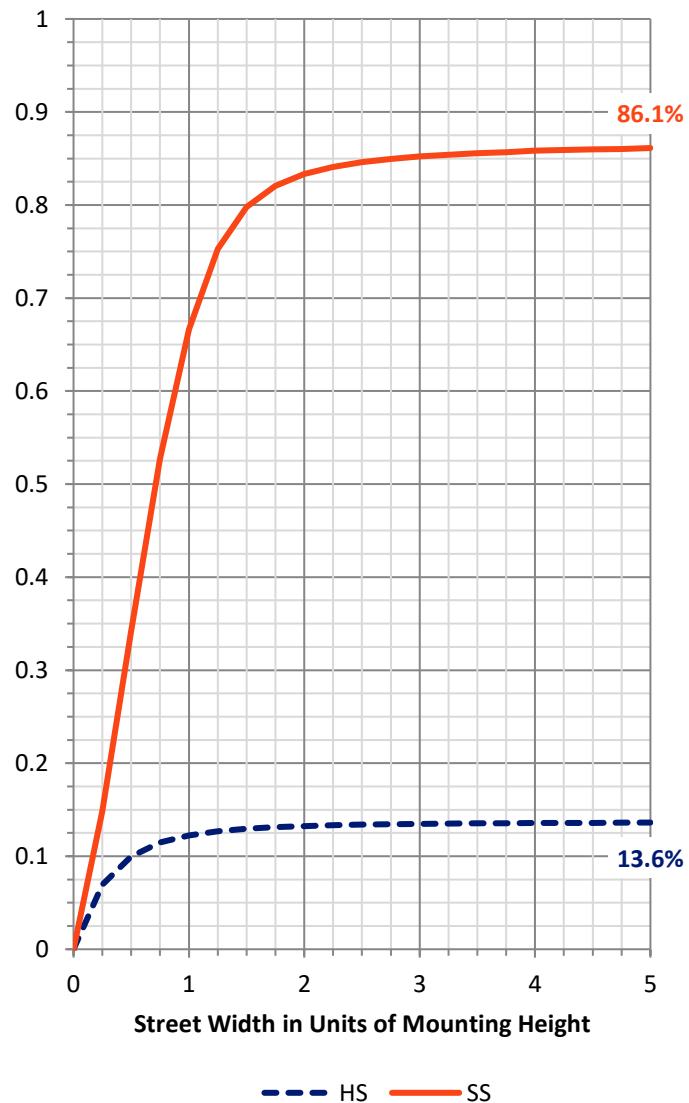
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	987.6	0.0	987.6
	% Fixture	13.7	0.0	13.7
Street Side	Lumens	6208.6	0.0	6208.6
	% Fixture	86.3	0.0	86.3
Total	Lumens	7196.2	0.0	7196.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	1.2
10°-20°	320.5	4.5
20°-30°	663.0	9.2
30°-40°	1140.5	15.8
40°-50°	1536.8	21.4
50°-60°	1591.1	22.1
60°-70°	1236.6	17.2
70°-80°	542.2	7.5
80°-90°	75.6	1.1
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°	7196.2	100.0
0°-180°	7196.2	100.0

Coefficient of Utilization



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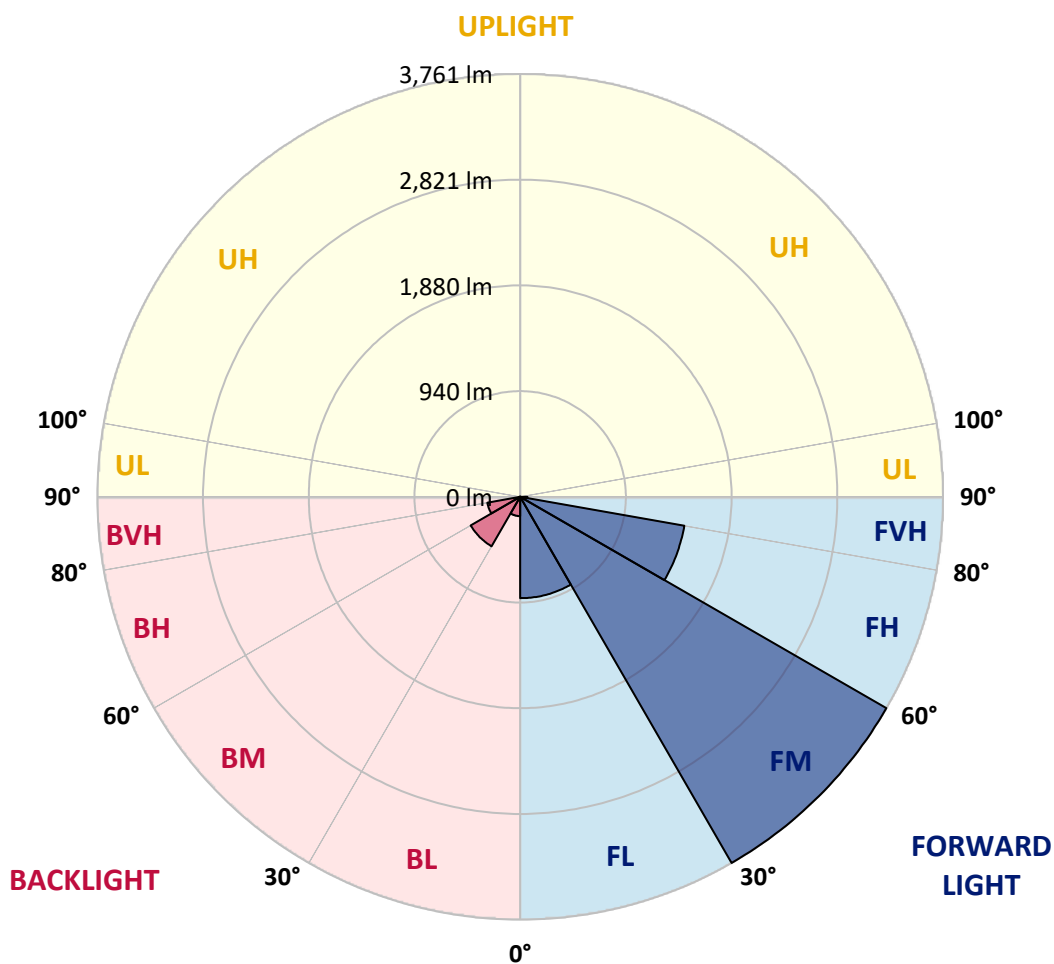
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.6	12.5			
FM	(30°-60°)	3760.7	52.3			
FH	(60°-80°)	1482.4	20.6			G1/1800
FVH	(80°-90°)	63.8	0.9			G1/100
BL	(0°-30°)	171.8	2.4	B1/500		
BM	(30°-60°)	507.7	7.1	B1/1000		
BH	(60°-80°)	296.3	4.1	B1/500		G1/500
BVH	(80°-90°)	11.8	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5
2.5°	1124.6	1110.6	1121.2	1099.4	1079.1	1054.4	1026.4	989.6	951.4	938.4	911.3
5°	1336.0	1344.2	1336.9	1309.3	1269.2	1203.4	1153.6	1083.0	1012.8	985.3	933.0
7.5°	1585.1	1578.8	1563.3	1523.6	1459.8	1384.8	1291.9	1190.8	1074.8	1037.5	957.2
10°	1801.7	1786.8	1771.8	1722.9	1646.5	1560.9	1436.1	1293.9	1146.3	1095.6	983.8
12.5°	2013.1	2018.9	1986.5	1934.3	1840.4	1730.6	1582.2	1413.3	1220.4	1156.5	1015.3
15°	2263.7	2248.2	2217.2	2139.8	2035.4	1907.7	1738.4	1538.6	1304.0	1226.6	1052.5
17.5°	2483.3	2471.7	2445.1	2363.3	2245.8	2090.0	1892.7	1668.7	1395.0	1306.0	1097.0
20°	2692.2	2685.4	2650.1	2573.2	2465.4	2287.4	2072.6	1822.1	1500.4	1400.8	1149.2
22.5°	2910.4	2902.1	2859.6	2776.4	2660.8	2498.3	2258.8	1978.8	1632.5	1508.6	1210.7
25°	3105.8	3118.4	3057.9	2979.0	2854.7	2686.9	2458.1	2149.5	1760.6	1625.2	1291.5
27.5°	3413.9	3377.6	3302.6	3185.6	3048.2	2886.7	2652.1	2326.1	1912.5	1760.1	1373.2
30°	3740.9	3719.1	3625.7	3441.9	3227.7	3048.2	2834.4	2533.6	2077.0	1918.8	1486.9
32.5°	4015.1	4004.0	3912.1	3736.0	3471.9	3207.8	3016.8	2737.2	2264.2	2095.3	1626.7
35°	4191.2	4173.8	4108.5	3974.5	3723.0	3413.4	3204.0	2963.6	2474.6	2300.9	1788.2
37.5°	4269.1	4247.3	4179.6	4078.0	3901.4	3612.2	3370.4	3176.4	2697.5	2510.4	1941.5
40°	4201.8	4194.1	4145.2	4049.5	3970.1	3768.4	3526.1	3377.1	2937.0	2745.4	2159.2
42.5°	3991.4	3977.4	3973.5	3930.5	3922.2	3833.7	3664.0	3564.8	3198.2	3001.8	2389.9
45°	3704.1	3695.9	3731.7	3751.0	3801.3	3822.6	3761.2	3744.7	3461.8	3264.4	2656.4
47.5°	3363.1	3357.8	3429.8	3510.6	3641.7	3746.2	3791.6	3884.0	3718.6	3550.8	2921.0
50°	2799.6	2773.0	2996.9	3200.6	3416.3	3636.9	3762.6	3995.3	3985.1	3827.9	3189.0
52.5°	2163.5	2153.4	2430.1	2775.4	3154.1	3453.5	3691.5	4057.2	4200.9	4075.6	3469.5
55°	1588.0	1595.7	1840.4	2269.5	2729.9	3183.6	3585.6	4072.7	4416.6	4342.1	3733.1
57.5°	1159.4	1187.0	1370.8	1735.5	2244.8	2807.8	3433.7	4068.8	4581.0	4557.3	3946.4
60°	869.2	868.7	1040.4	1284.7	1723.9	2367.2	3188.0	4057.7	4676.3	4702.9	4051.9
61°	788.4	796.6	921.9	1128.0	1575.4	2155.3	3065.1	4049.0	4684.5	4728.1	4062.0
62.5°	682.5	680.1	778.3	942.7	1304.5	1841.4	2845.6	4022.9	4674.9	4716.0	4044.6
65°	549.5	551.9	618.2	713.0	977.5	1371.3	2387.0	3863.7	4520.1	4550.1	3929.5
67.5°	453.7	459.5	503.5	565.9	725.1	973.7	1826.9	3541.1	4218.7	4185.9	3676.0
70°	371.5	377.8	411.6	453.2	553.3	712.5	1341.8	2969.4	3697.3	3606.9	3216.5
72.5°	300.9	300.9	329.4	367.1	424.2	512.2	927.7	2278.7	3028.4	2922.0	2602.3
75°	238.9	238.0	258.3	277.2	314.4	374.4	634.6	1567.2	2270.9	2150.5	1854.0
77.5°	164.9	167.4	185.3	204.1	222.5	260.2	421.3	964.0	1466.5	1366.9	1167.6
80°	121.9	122.9	133.0	143.2	141.2	164.9	265.5	490.9	816.0	814.1	662.7
82.5°	88.5	90.9	94.8	100.6	97.7	107.9	159.6	246.2	431.9	429.5	356.0
85°	56.6	56.1	56.1	59.5	59.0	64.8	86.6	132.0	184.8	192.0	173.2
87.5°	20.3	21.3	24.7	30.0	28.1	26.6	26.1	34.8	31.4	29.5	28.1
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°	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5
2.5°	892.4	873.5	834.4	795.7	766.2	732.3	710.5	693.1	672.8	666.5	679.1
5°	895.8	856.6	784.5	714.4	657.3	612.8	570.3	553.3	525.8	518.0	517.5
7.5°	901.1	843.1	736.2	642.3	568.8	509.3	469.7	445.5	429.0	423.2	428.1
10°	907.4	830.5	690.2	574.6	491.4	440.2	401.9	380.2	370.0	365.2	363.7
12.5°	920.0	822.3	654.9	520.9	434.8	386.0	355.5	337.6	326.5	324.1	321.7
15°	934.0	816.5	617.7	473.0	389.9	344.4	317.3	304.2	295.1	290.7	290.7
17.5°	952.9	816.0	581.4	428.5	353.1	311.5	287.8	277.2	270.9	268.4	268.0
20°	978.5	818.9	551.9	397.1	322.1	283.9	266.0	256.8	253.0	250.6	250.6
22.5°	1014.8	828.6	526.7	367.1	296.0	262.2	246.2	240.9	237.5	235.1	235.1
25°	1065.1	850.3	508.4	342.5	274.3	244.3	231.2	225.4	223.0	222.0	221.5
27.5°	1119.7	876.9	500.6	325.0	254.9	228.8	217.7	211.9	209.9	209.0	209.0
30°	1191.8	915.1	495.3	312.5	239.9	214.8	204.6	198.3	195.9	195.9	195.4
32.5°	1286.6	978.0	505.5	302.8	229.8	203.1	192.0	186.7	184.3	183.8	183.3
35°	1412.9	1067.0	529.6	299.4	219.6	192.0	180.9	176.1	173.6	173.2	172.2
37.5°	1525.6	1139.6	561.1	298.0	210.4	182.4	171.7	166.4	163.5	162.5	163.0
40°	1690.0	1255.2	603.2	300.9	202.2	172.7	163.0	157.7	154.8	153.8	153.3
42.5°	1873.8	1401.3	667.5	312.5	196.9	164.0	155.3	149.5	147.0	146.1	145.6
45°	2091.5	1573.0	753.6	328.9	193.0	157.2	147.0	142.2	139.8	138.3	138.3
47.5°	2319.3	1753.9	842.6	349.7	190.1	151.9	139.8	134.9	132.0	130.6	129.6
50°	2571.3	1938.6	946.6	372.4	187.7	146.6	132.5	126.2	123.3	120.4	120.4
52.5°	2815.1	2150.0	1054.4	398.6	185.7	137.9	124.3	117.5	112.7	109.8	109.3
55°	3048.2	2342.5	1157.0	422.7	183.8	130.6	115.1	106.9	102.5	100.6	101.1
57.5°	3231.1	2479.4	1246.5	443.1	179.4	122.4	105.0	97.7	94.3	95.8	94.3
60°	3278.9	2461.5	1265.3	446.9	171.2	112.2	94.8	90.5	89.5	87.1	87.1
61°	3243.6	2393.8	1232.4	441.1	167.4	107.4	91.9	88.5	87.1	84.6	84.6
62.5°	3150.3	2220.1	1140.5	421.8	159.6	100.6	87.5	85.1	83.2	80.8	81.3
65°	2936.0	1864.6	894.8	364.7	143.2	90.9	80.3	78.8	76.4	74.5	73.0
67.5°	2618.2	1507.7	642.8	292.1	125.8	82.2	72.1	70.1	67.7	65.3	64.3
70°	2257.4	1167.1	435.8	225.4	107.9	72.6	63.4	60.0	58.0	56.1	55.1
72.5°	1807.1	877.9	275.2	166.4	89.5	60.9	51.8	49.8	47.9	46.4	46.0
75°	1324.8	613.3	183.8	124.3	72.1	49.3	41.6	37.7	36.8	35.8	34.3
77.5°	790.4	344.4	119.0	90.5	57.1	38.7	31.9	29.0	28.5	27.1	27.1
80°	416.0	182.8	78.4	62.4	40.6	29.5	25.2	23.2	21.3	16.9	14.0
82.5°	235.6	99.2	51.3	39.2	27.1	21.8	18.9	17.4	14.5	4.4	2.4
85°	117.5	50.3	24.7	19.8	13.1	8.7	9.2	7.3	3.4	0.5	0.0
87.5°	21.3	7.3	4.4	4.4	3.4	2.4	1.9	1.0	0.5	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)