

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: P1461740

Luminaire Tested: USSL-150-8540-U-T3RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461740
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T3RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE III ROADWAY
ILLUMINANCE 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: 12975 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

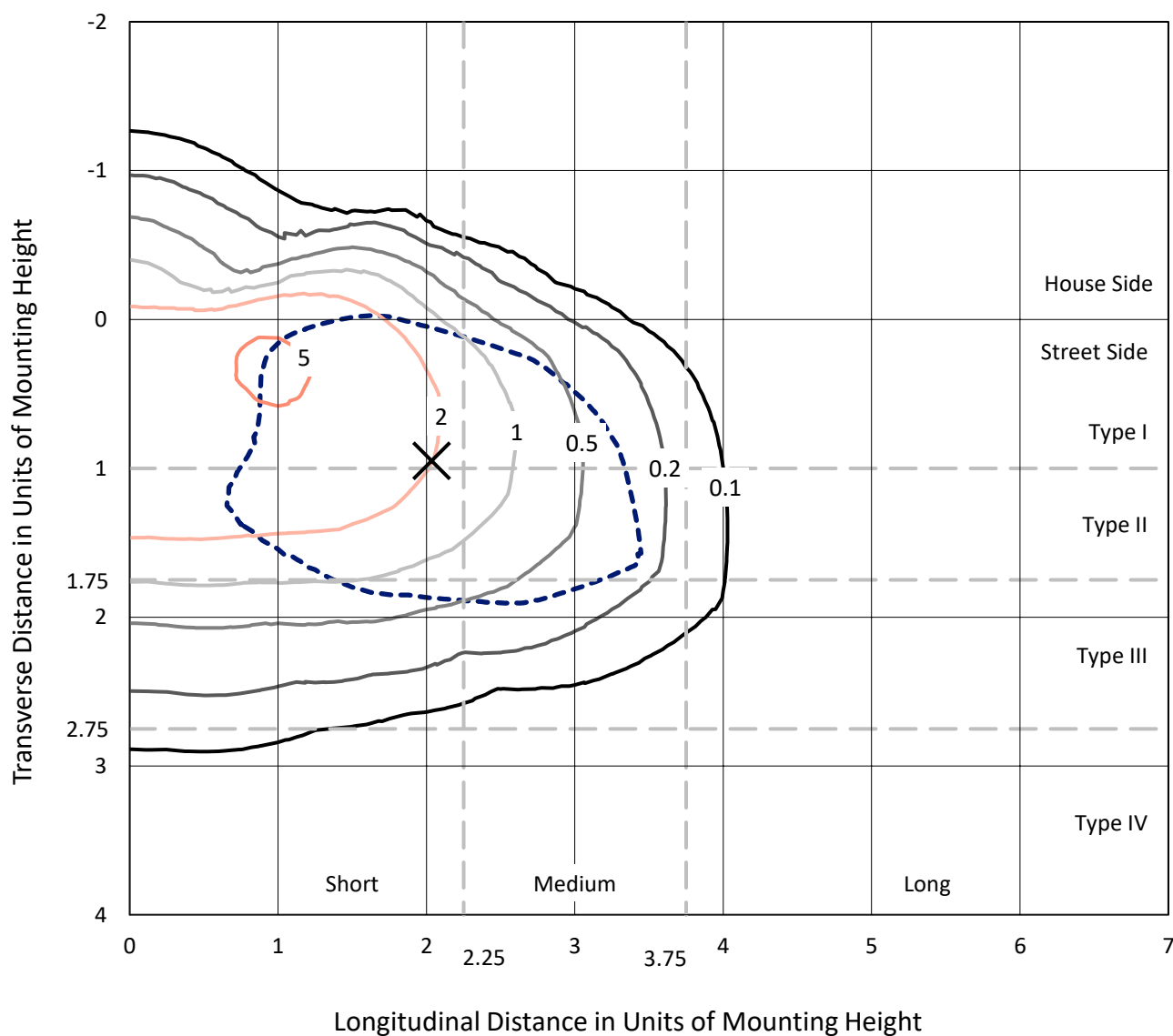
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



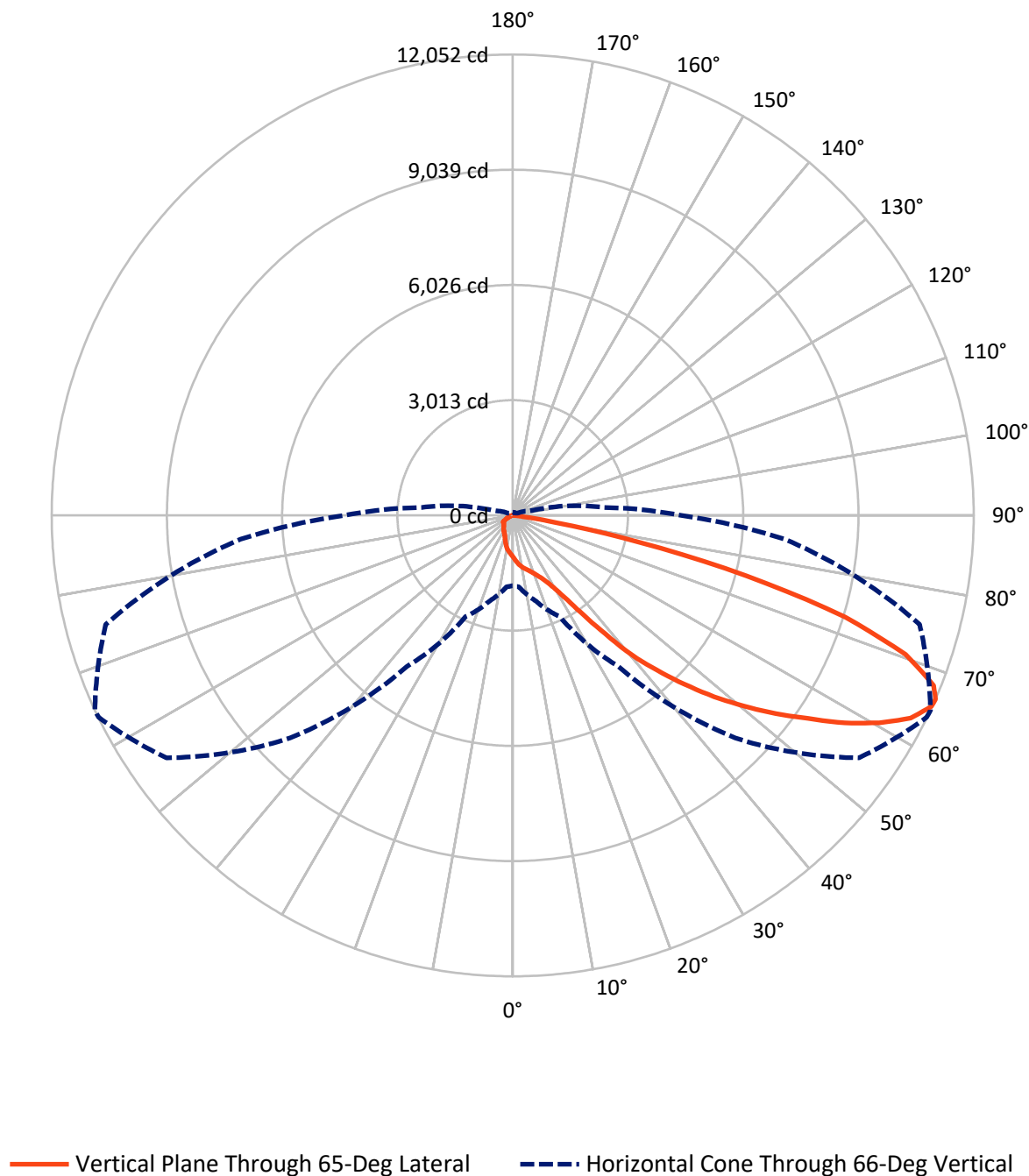
Based on 20 foot mounting height. Maximum calculated value = 5.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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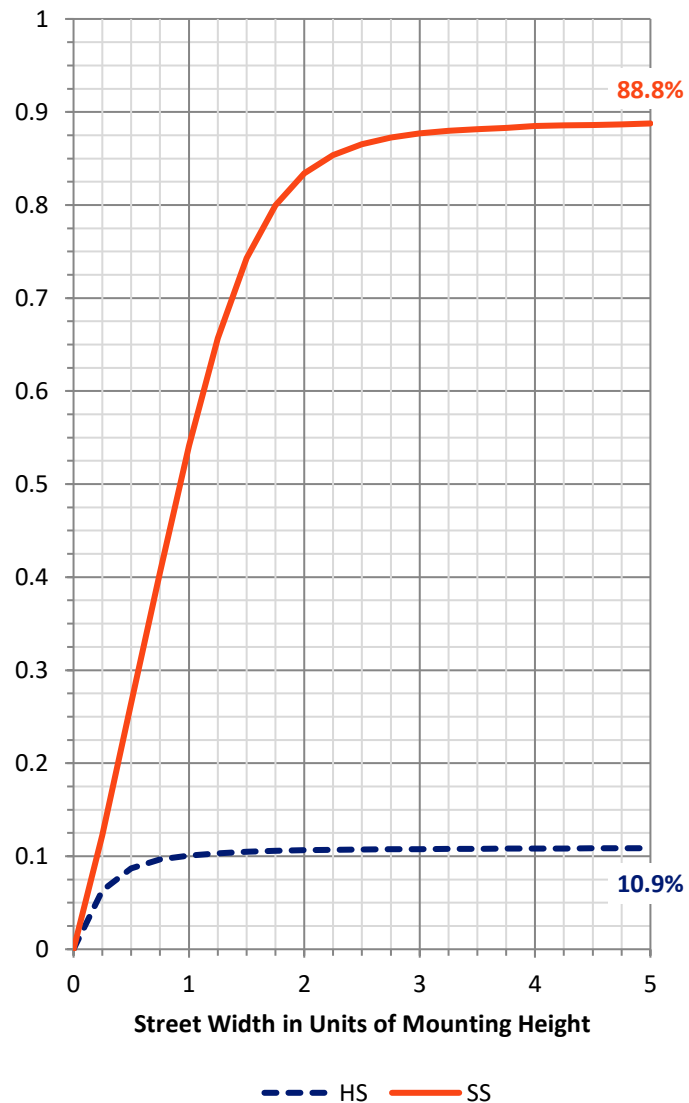
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1422.5	0.0	1422.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	11552.5	0.0	11552.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	12975.0	0.0	12975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	0.8
10°-20°	303.0	2.3
20°-30°	552.2	4.3
30°-40°	1095.8	8.4
40°-50°	2273.9	17.5
50°-60°	3542.9	27.3
60°-70°	3608.1	27.8
70°-80°	1401.2	10.8
80°-90°	95.1	0.7
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°	12975.0	100.0
0°-180°	12975.0	100.0

Coefficient of Utilization



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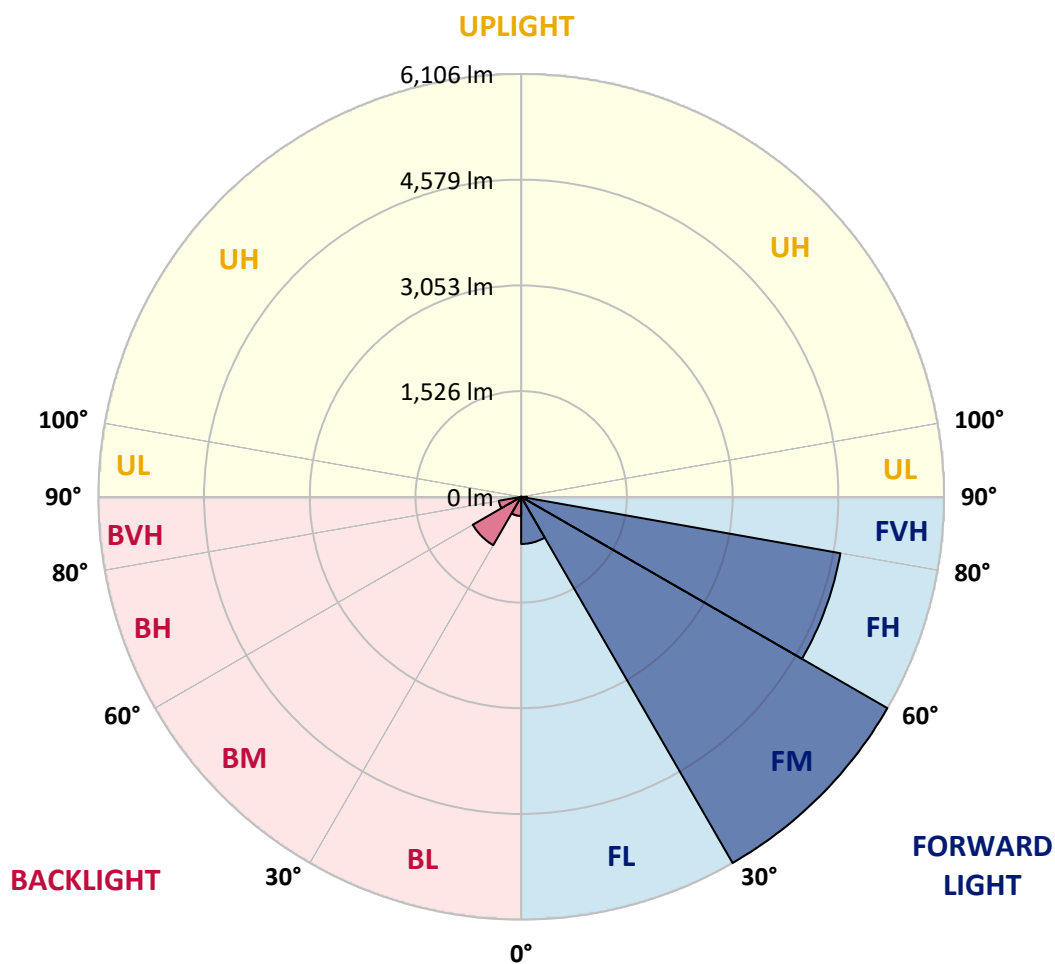
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	680.9	5.2			
FM	(30°-60°)	6105.9	47.1			
FH	(60°-80°)	4681.3	36.1			G2/5000
FVH	(80°-90°)	84.5	0.7			G1/100
BL	(0°-30°)	277.1	2.1	B1/500		
BM	(30°-60°)	806.8	6.2	B1/1000		
BH	(60°-80°)	328.0	2.5	B1/500		G1/500
BVH	(80°-90°)	10.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1
2.5°	1254.2	1249.9	1245.5	1237.5	1220.8	1205.9	1180.4	1155.7	1157.5	1125.8	1098.6
5°	1337.8	1333.4	1332.5	1329.9	1322.9	1306.1	1278.0	1241.1	1238.4	1182.1	1121.4
7.5°	1354.5	1351.9	1352.8	1351.9	1354.5	1351.9	1346.6	1309.7	1311.4	1246.3	1151.3
10°	1373.0	1366.8	1372.1	1376.5	1380.9	1385.3	1382.7	1370.3	1373.0	1308.8	1190.9
12.5°	1396.7	1391.5	1398.5	1406.4	1416.1	1424.9	1428.4	1417.8	1426.6	1381.8	1241.9
15°	1420.5	1416.1	1426.6	1440.7	1459.2	1473.3	1478.5	1475.0	1480.3	1456.5	1299.1
17.5°	1448.6	1444.2	1459.2	1482.1	1506.7	1532.2	1542.7	1541.0	1548.0	1537.5	1363.3
20°	1484.7	1480.3	1501.4	1533.9	1572.6	1604.3	1625.4	1619.3	1626.3	1625.4	1446.9
22.5°	1546.3	1541.9	1563.9	1600.8	1653.6	1696.7	1722.2	1716.0	1724.8	1723.9	1535.7
25°	1643.0	1639.5	1666.8	1703.7	1751.2	1812.8	1847.1	1838.3	1846.2	1845.3	1654.4
27.5°	1782.0	1781.1	1791.7	1827.7	1882.3	1954.4	2013.3	2001.0	2015.1	2017.7	1797.8
30°	1986.0	1970.2	1958.8	1979.9	2037.9	2144.4	2230.6	2249.9	2266.6	2280.7	2031.8
32.5°	2329.9	2287.7	2250.8	2195.4	2220.9	2364.2	2531.4	2628.1	2636.0	2709.0	2383.6
35°	2789.1	2745.1	2655.4	2556.9	2512.0	2648.3	2943.0	3178.7	3203.3	3359.0	2899.0
37.5°	3283.4	3260.5	3132.1	3010.7	2934.2	3041.5	3442.6	3930.7	3922.8	4124.2	3491.0
40°	3910.5	3896.4	3761.9	3562.2	3396.0	3498.9	4039.8	4695.1	4803.3	4890.3	4163.8
42.5°	4389.9	4348.5	4275.5	4197.2	3992.3	4000.2	4666.0	5467.3	5535.1	5667.0	4821.7
45°	4685.4	4666.0	4712.7	4761.0	4666.9	4592.2	5364.4	6244.9	6293.2	6472.7	5467.3
47.5°	4942.2	4940.5	5002.0	5194.7	5242.2	5290.5	6143.7	7003.0	7084.0	7279.2	6056.6
50°	5080.3	5095.3	5258.9	5532.4	5733.0	5995.9	6984.6	7793.8	7830.7	8004.8	6624.8
52.5°	4992.4	5017.0	5347.7	5779.6	6120.8	6667.9	7818.4	8566.0	8609.1	8722.6	7116.5
55°	4655.5	4670.4	5150.7	5842.9	6456.8	7427.0	8651.3	9321.5	9368.2	9402.5	7617.8
57.5°	4022.2	4067.1	4713.5	5597.5	6693.4	8083.1	9510.6	10180.9	10236.3	10083.2	8039.2
60°	3435.5	3477.8	4130.4	5031.1	6624.8	8647.8	10332.2	10996.2	11007.7	10687.5	8169.3
62.5°	2724.9	2783.8	3427.6	4257.9	6175.4	8928.4	10905.6	11649.7	11672.6	11073.6	7949.4
65°	2005.4	2069.6	2614.9	3293.1	5289.7	8636.4	11141.3	12026.2	12032.3	11106.2	7433.1
66°	1836.5	1875.2	2311.5	2921.9	4820.9	8230.0	11050.8	12039.4	12051.7	11012.1	7138.5
67.5°	1650.0	1680.8	2020.3	2360.7	3989.7	7376.8	10526.5	11846.8	11867.9	10621.5	6677.6
70°	1289.4	1319.3	1570.0	1741.5	2738.9	5177.1	8988.2	10813.3	10897.7	9390.2	5674.0
72.5°	873.4	896.3	1032.6	1115.3	1644.8	2882.3	6734.8	8966.2	9092.9	7266.9	4174.4
75°	528.6	539.2	566.4	623.6	822.4	1383.5	4021.3	6219.3	6316.1	4613.3	2474.2
77.5°	385.2	381.7	390.5	389.6	409.0	540.9	1900.7	3365.2	3377.5	2040.6	1044.0
80°	303.4	287.6	292.0	292.0	273.5	249.8	594.6	1030.8	1141.7	592.8	308.7
82.5°	241.9	230.4	233.1	227.8	201.4	166.2	186.5	268.3	268.3	176.8	105.5
85°	173.3	161.8	168.0	169.8	128.4	121.4	107.3	120.5	121.4	95.0	80.9
87.5°	86.2	87.1	93.2	102.9	84.4	68.6	57.2	58.1	59.8	52.8	46.6
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°	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1	1080.1
2.5°	1083.6	1070.4	1045.8	1026.4	1002.7	986.0	971.0	957.8	955.2	949.9	944.6
5°	1092.4	1066.9	1020.3	977.2	934.1	898.0	866.4	839.1	825.0	807.4	805.7
7.5°	1106.5	1069.5	999.2	932.3	861.1	796.9	739.7	707.2	683.4	674.6	671.1
10°	1130.2	1079.2	983.3	876.9	766.1	683.4	638.6	609.5	599.0	597.2	597.2
12.5°	1163.7	1097.7	964.9	811.0	680.8	606.0	576.1	573.5	573.5	574.4	572.6
15°	1203.2	1122.3	936.7	738.8	608.7	562.0	555.0	553.2	552.4	553.2	554.1
17.5°	1245.5	1146.1	901.5	668.5	558.5	541.8	536.5	533.9	534.8	535.7	533.9
20°	1300.0	1176.8	854.0	601.6	535.7	523.3	517.2	515.4	515.4	516.3	516.3
22.5°	1361.6	1206.8	796.9	553.2	517.2	504.9	496.9	492.6	492.6	495.2	495.2
25°	1439.0	1241.1	736.2	517.2	496.1	483.8	471.4	465.3	467.0	468.8	467.0
27.5°	1533.9	1286.8	672.9	491.7	473.2	459.1	442.4	435.4	436.3	443.3	443.3
30°	1694.9	1354.5	615.7	467.0	446.8	428.3	409.9	403.7	406.4	416.0	419.5
32.5°	1930.6	1472.4	567.3	441.5	416.9	390.5	372.1	365.0	373.8	389.6	390.5
35°	2329.1	1692.3	538.3	413.4	381.7	352.7	329.0	321.0	333.4	346.5	349.2
37.5°	2797.0	2002.8	548.0	387.9	349.2	316.6	291.1	282.3	286.7	299.9	299.9
40°	3322.1	2371.3	617.4	364.1	319.3	284.1	258.6	249.8	251.6	255.1	258.6
42.5°	3805.8	2755.7	737.1	342.1	292.9	254.2	233.1	223.4	224.3	225.2	225.2
45°	4339.7	3151.5	880.4	325.4	268.3	230.4	209.3	204.9	204.9	205.8	206.7
47.5°	4805.9	3519.1	1037.0	315.8	245.4	207.6	190.9	189.1	189.1	190.9	191.7
50°	5255.4	3870.1	1196.2	309.6	223.4	188.2	175.0	173.3	175.0	177.7	178.6
52.5°	5649.4	4206.9	1374.7	307.0	204.1	172.4	161.0	158.3	159.2	161.8	162.7
55°	6025.0	4540.3	1580.6	306.1	183.8	156.6	146.0	142.5	143.4	145.1	144.2
57.5°	6316.1	4700.4	1703.7	281.5	167.1	141.6	131.1	124.9	126.7	126.7	128.4
60°	6266.8	4513.0	1564.7	229.6	149.5	124.9	115.2	109.1	111.7	111.7	113.5
62.5°	5682.8	3768.0	1116.2	182.9	131.1	109.9	101.1	96.8	98.5	99.4	98.5
65°	4784.8	2764.4	594.6	147.8	111.7	95.0	88.8	84.4	86.2	85.3	85.3
66°	4396.0	2387.1	451.2	138.1	103.8	90.6	84.4	80.9	80.9	80.0	79.2
67.5°	3812.0	1910.4	286.7	123.1	93.2	85.3	78.3	73.9	73.0	72.1	72.1
70°	2833.9	1268.3	159.2	96.8	79.2	73.9	68.6	63.3	61.6	60.7	61.6
72.5°	2037.1	832.1	107.3	74.8	67.7	65.1	58.9	52.8	51.9	52.8	52.8
75°	1198.0	450.3	79.2	55.4	55.4	55.4	50.1	44.0	44.0	48.4	48.4
77.5°	560.3	212.9	59.8	44.9	44.9	47.5	41.3	36.9	39.6	44.9	45.7
80°	212.9	96.8	41.3	35.2	35.2	39.6	32.5	32.5	34.3	36.1	33.4
82.5°	90.6	53.7	29.0	26.4	27.3	29.9	25.5	26.4	27.3	16.7	19.4
85°	71.2	31.7	15.8	15.0	15.8	17.6	14.1	15.8	13.2	4.4	8.8
87.5°	37.8	15.0	7.9	7.0	6.2	6.2	5.3	7.0	6.2	2.6	2.6
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)