

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P561160

Luminaire Tested: **SDL-PA1-80-827-U-T3-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-80-827-U-T3-HSS
Description: Springdale
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5085.3 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

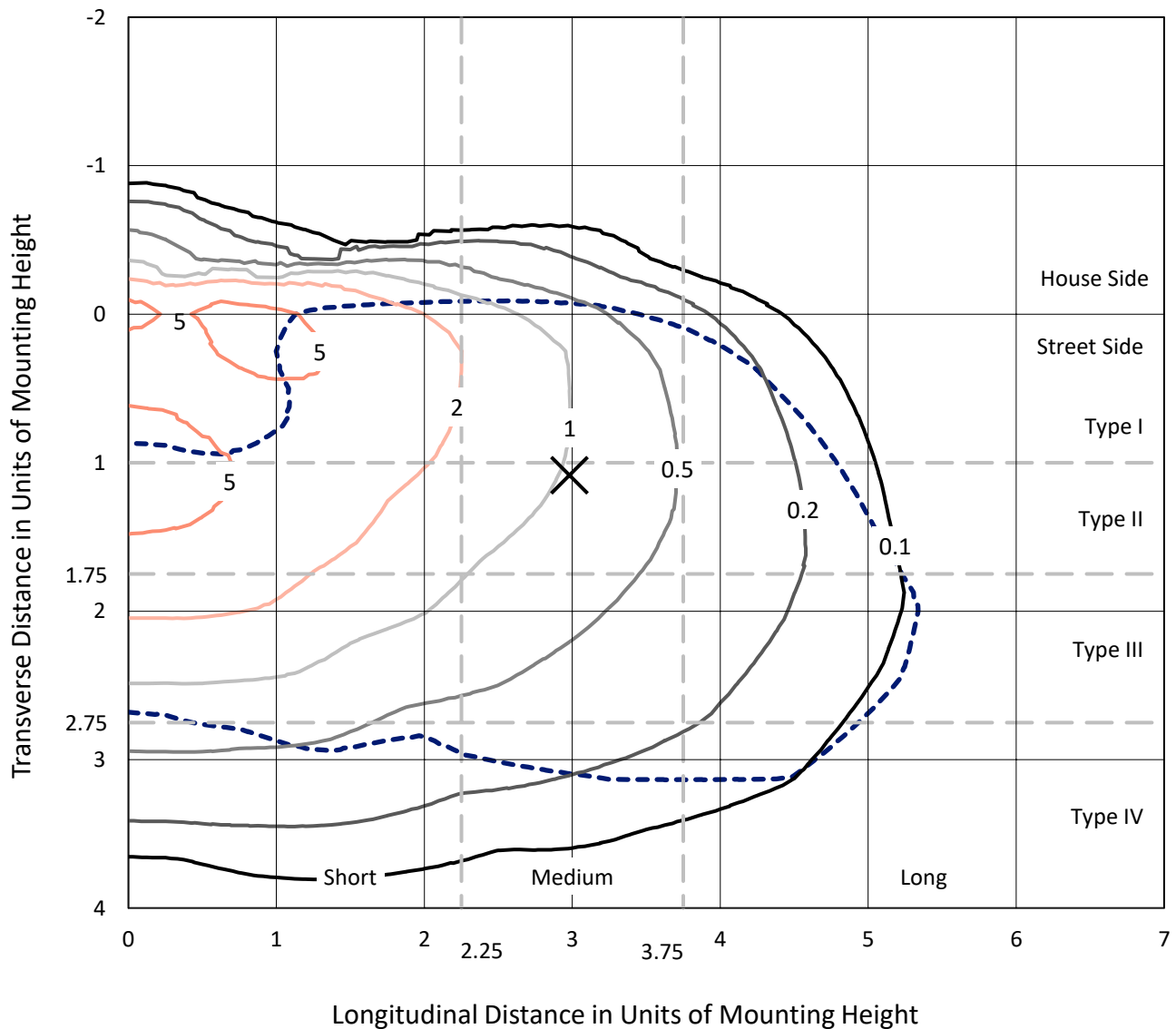


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

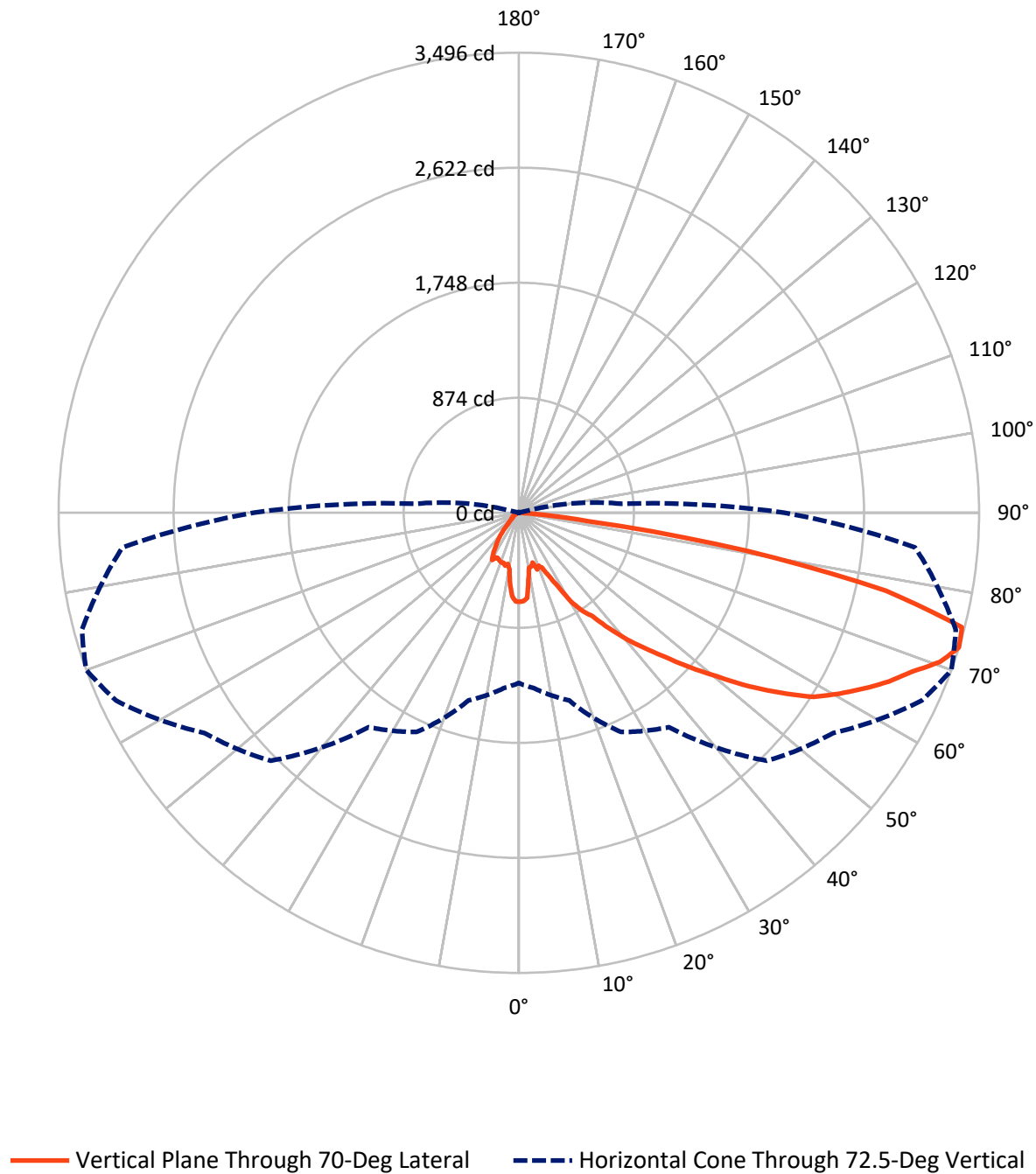


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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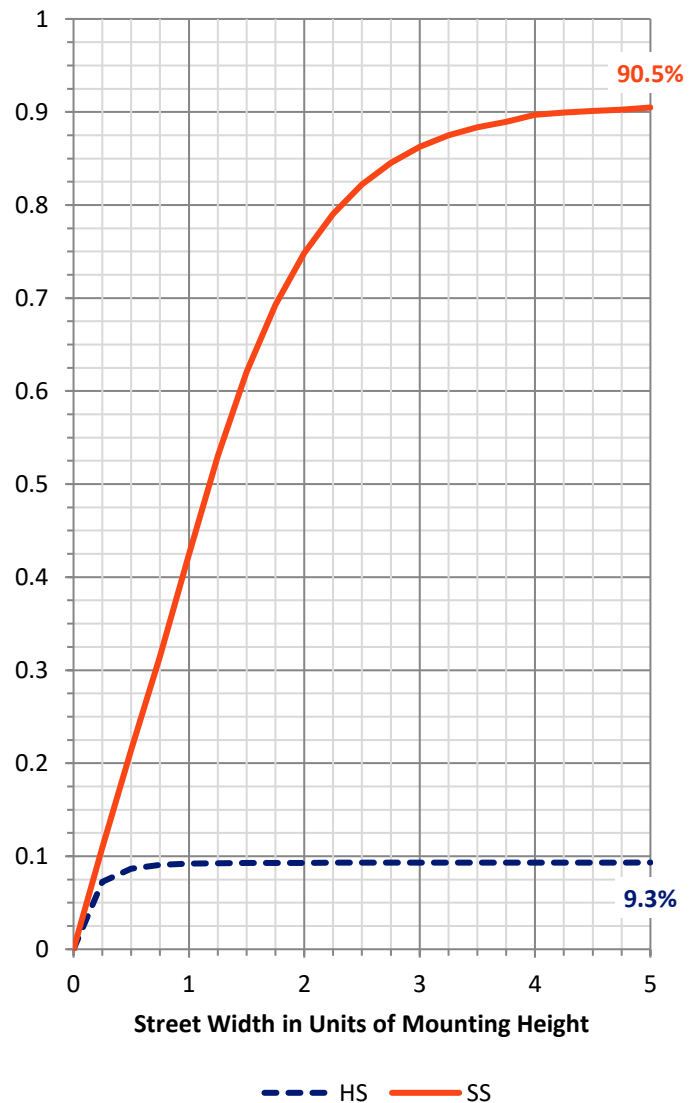
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.4	0.0	479.4
	% Fixture	9.4	0.0	9.4
Street Side	Lumens	4605.9	0.0	4605.9
	% Fixture	90.6	0.0	90.6
Total	Lumens	5085.3	0.0	5085.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.0
10°-20°	104.1	2.0
20°-30°	169.7	3.3
30°-40°	362.0	7.1
40°-50°	697.6	13.7
50°-60°	1153.7	22.7
60°-70°	1412.2	27.8
70°-80°	1034.6	20.3
80°-90°	99.4	2.0
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°	5085.3	100.0
0°-180°	5085.3	100.0

Coefficient of Utilization



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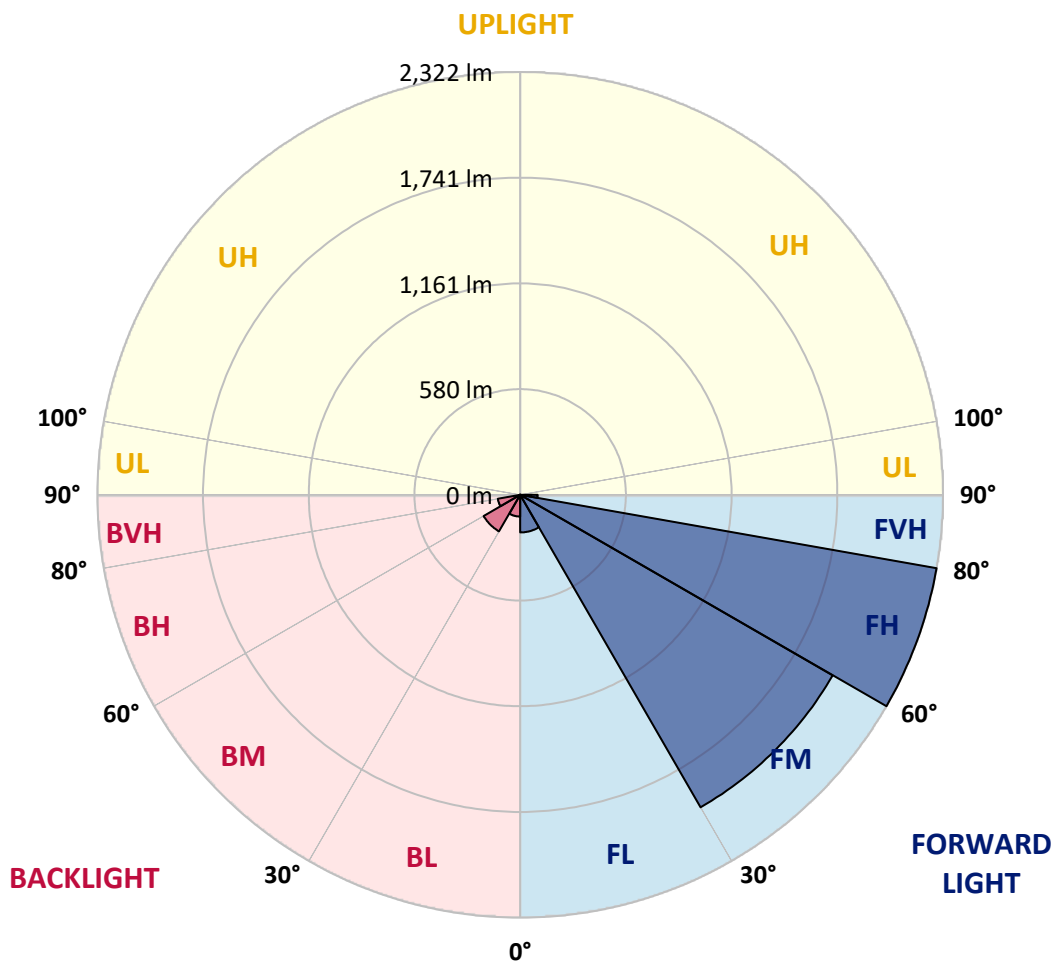
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	206.5	4.1			
FM	(30°-60°)	1981.6	39.0			
FH	(60°-80°)	2321.9	45.7			G2/5000
FVH	(80°-90°)	95.9	1.9			G1/100
BL	(0°-30°)	119.4	2.3	B1/500		
BM	(30°-60°)	231.7	4.6	B1/1000		
BH	(60°-80°)	124.9	2.5	B1/500		G1/500
BVH	(80°-90°)	3.5	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7
2.5°	601.8	619.3	629.3	639.3	636.8	634.3	639.3	644.3	654.3	661.8	666.7
5°	541.9	541.9	541.9	541.9	544.4	544.4	544.4	544.4	546.9	549.4	551.9
7.5°	469.5	479.5	484.5	489.4	501.9	511.9	521.9	531.9	536.9	539.4	541.9
10°	509.4	509.4	509.4	509.4	511.9	511.9	479.5	444.5	447.0	449.5	434.5
12.5°	422.0	419.5	447.0	472.0	489.4	504.4	487.0	467.0	437.0	404.5	399.6
15°	496.9	496.9	496.9	496.9	462.0	427.0	402.0	377.1	397.1	414.5	374.6
17.5°	392.1	402.0	432.0	462.0	462.0	462.0	439.5	417.0	374.6	329.6	377.1
20°	487.0	487.0	487.0	484.5	427.0	369.6	389.6	407.0	424.5	442.0	434.5
22.5°	404.5	399.6	407.0	414.5	432.0	447.0	397.1	344.6	402.0	457.0	429.5
25°	511.9	511.9	514.4	514.4	459.5	404.5	437.0	467.0	424.5	382.1	449.5
27.5°	462.0	447.0	444.5	439.5	457.0	472.0	449.5	427.0	474.5	521.9	499.4
30°	641.8	641.8	624.3	606.8	539.4	469.5	477.0	482.0	482.0	482.0	531.9
32.5°	891.5	894.0	826.6	756.6	696.7	634.3	579.3	521.9	551.9	581.8	614.3
35°	1201.1	1208.6	1161.2	1111.2	963.9	816.6	724.2	631.8	629.3	624.3	671.7
37.5°	1423.4	1438.4	1400.9	1363.5	1188.7	1013.9	881.5	749.2	736.7	721.7	739.2
40°	1633.2	1623.2	1600.7	1575.7	1390.9	1203.6	1058.8	911.5	879.0	844.1	846.5
42.5°	1905.4	1875.4	1818.0	1760.5	1583.2	1405.9	1251.1	1096.3	1043.8	991.4	981.4
45°	2257.5	2207.5	2125.1	2040.2	1865.4	1690.6	1500.8	1308.5	1243.6	1176.2	1161.2
47.5°	2437.3	2402.3	2349.9	2294.9	2115.1	1935.3	1753.0	1568.2	1478.3	1385.9	1361.0
50°	2649.5	2604.6	2569.6	2532.2	2377.3	2220.0	2050.2	1877.9	1758.0	1638.2	1595.7
52.5°	2851.8	2776.9	2744.4	2709.5	2587.1	2462.2	2284.9	2107.6	2030.2	1950.3	1847.9
55°	2924.2	2851.8	2836.8	2821.8	2734.4	2647.0	2484.7	2322.4	2232.5	2140.1	2057.7
57.5°	2766.9	2776.9	2821.8	2866.8	2816.8	2766.9	2634.5	2499.7	2399.8	2299.9	2252.5
60°	2659.5	2682.0	2749.4	2816.8	2816.8	2816.8	2744.4	2672.0	2577.1	2482.2	2449.7
62.5°	2487.2	2514.7	2617.1	2719.4	2784.4	2849.3	2771.9	2694.5	2662.0	2627.0	2597.1
65°	2260.0	2267.4	2382.3	2497.2	2632.0	2764.4	2692.0	2617.1	2679.5	2741.9	2711.9
67.5°	1997.8	2010.2	2117.6	2222.5	2382.3	2542.1	2522.2	2499.7	2637.0	2774.4	2771.9
70°	1685.6	1708.1	1800.5	1890.4	2070.2	2247.5	2267.4	2287.4	2524.7	2759.4	2804.3
72.5°	1293.5	1338.5	1408.4	1475.8	1658.1	1837.9	1912.8	1987.8	2327.4	2664.5	2791.9
75°	429.5	459.5	654.3	846.5	1031.3	1216.1	1380.9	1543.3	1967.8	2389.8	2654.5
77.5°	124.9	129.9	167.3	202.3	347.1	489.4	659.3	826.6	1241.1	1653.1	2092.6
80°	64.9	67.4	74.9	82.4	119.9	157.3	227.2	294.7	484.5	674.2	1136.2
82.5°	44.9	44.9	52.4	57.4	72.4	87.4	124.9	162.3	177.3	192.3	457.0
85°	15.0	15.0	20.0	25.0	35.0	44.9	67.4	87.4	87.4	84.9	122.4
87.5°	2.5	2.5	5.0	7.5	12.5	15.0	12.5	10.0	7.5	5.0	10.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7
2.5°	669.2	671.7	671.7	671.7	674.2	674.2	674.2	674.2	671.7	674.2	674.2
5°	551.9	596.8	639.3	651.8	659.3	661.8	661.8	661.8	659.3	659.3	659.3
7.5°	544.4	541.9	539.4	519.4	566.9	576.9	584.3	581.8	581.8	569.4	554.4
10°	419.5	419.5	419.5	424.5	452.0	484.5	516.9	516.9	516.9	479.5	442.0
12.5°	392.1	407.0	419.5	419.5	374.6	412.0	449.5	449.5	449.5	412.0	372.1
15°	334.6	352.1	367.1	392.1	467.0	511.9	556.9	556.9	554.4	511.9	467.0
17.5°	422.0	417.0	409.5	454.5	427.0	434.5	442.0	419.5	452.0	439.5	427.0
20°	427.0	382.1	334.6	429.5	526.9	569.4	611.8	614.3	606.8	559.4	509.4
22.5°	402.0	459.5	514.4	454.5	469.5	459.5	447.0	442.0	442.0	439.5	437.0
25°	514.4	459.5	404.5	531.9	621.8	651.8	681.7	674.2	664.3	596.8	529.4
27.5°	474.5	529.4	581.8	631.8	676.7	704.2	731.7	809.1	704.2	626.8	546.9
30°	579.3	646.8	711.7	784.1	921.5	961.4	1001.4	981.4	956.4	806.6	656.8
32.5°	644.3	751.7	856.5	889.0	971.4	1008.9	1043.8	1026.3	996.4	799.1	601.8
35°	716.7	816.6	914.0	966.4	1066.3	1096.3	1123.7	1096.3	1063.8	791.6	519.4
37.5°	756.6	891.5	1023.8	1113.7	1198.7	1206.1	1211.1	1186.2	1143.7	791.6	439.5
40°	849.0	993.9	1136.2	1266.1	1333.5	1336.0	1338.5	1298.5	1221.1	784.1	344.6
42.5°	971.4	1118.7	1263.6	1405.9	1495.8	1488.3	1478.3	1423.4	1296.0	771.6	247.2
45°	1146.2	1276.1	1405.9	1565.7	1675.6	1655.6	1633.2	1550.8	1348.5	759.1	167.3
47.5°	1333.5	1435.9	1535.8	1755.5	1895.4	1852.9	1808.0	1688.1	1385.9	754.2	119.9
50°	1550.8	1633.2	1715.6	1955.3	2122.6	2042.7	1962.8	1825.4	1400.9	749.2	94.9
52.5°	1743.0	1827.9	1910.4	2190.0	2317.4	2227.5	2137.6	1932.8	1393.4	739.2	82.4
55°	1972.8	2047.7	2122.6	2414.8	2517.2	2397.3	2274.9	2010.2	1356.0	716.7	74.9
57.5°	2202.5	2279.9	2354.9	2639.5	2669.5	2552.1	2432.3	2085.2	1318.5	694.2	67.4
60°	2417.3	2504.7	2592.1	2791.9	2814.3	2709.5	2604.6	2157.6	1258.6	659.3	59.9
62.5°	2567.1	2687.0	2806.8	2941.7	2951.7	2856.8	2759.4	2212.5	1181.2	619.3	54.9
65°	2679.5	2844.3	3006.6	3089.0	3084.0	3016.6	2949.2	2260.0	1118.7	581.8	44.9
67.5°	2766.9	2966.7	3166.4	3221.4	3233.9	3171.4	3109.0	2267.4	1041.3	539.4	35.0
70°	2849.3	3069.0	3288.8	3393.7	3368.7	3271.3	3173.9	2210.0	936.4	482.0	25.0
72.5°	2916.7	3146.5	3376.2	3496.1	3436.1	3228.9	3021.6	2015.2	784.1	402.0	17.5
75°	2916.7	3146.5	3373.7	3476.1	3271.3	2859.3	2444.7	1500.8	459.5	237.2	15.0
77.5°	2532.2	2699.5	2866.8	2851.8	2492.2	1980.3	1465.9	864.0	154.8	84.9	12.5
80°	1598.2	1708.1	1818.0	1763.0	1273.6	914.0	551.9	289.7	54.9	32.5	10.0
82.5°	721.7	709.2	696.7	536.9	249.7	167.3	82.4	49.9	15.0	10.0	5.0
85°	159.8	154.8	149.8	109.9	74.9	49.9	25.0	15.0	7.5	7.5	5.0
87.5°	15.0	17.5	17.5	12.5	12.5	10.0	5.0	5.0	5.0	5.0	5.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7
2.5°	674.2	674.2	674.2	671.7	671.7	671.7	654.3	634.3	621.8	606.8	599.3
5°	636.8	614.3	586.8	559.4	554.4	546.9	549.4	549.4	551.9	551.9	551.9
7.5°	541.9	529.4	534.4	539.4	539.4	539.4	539.4	536.9	534.4	531.9	506.9
10°	432.0	422.0	422.0	422.0	429.5	434.5	422.0	407.0	429.5	449.5	444.5
12.5°	397.1	422.0	389.6	354.6	359.6	362.1	362.1	359.6	349.6	339.6	304.7
15°	414.5	362.1	332.1	299.7	299.7	299.7	242.2	184.8	172.3	159.8	162.3
17.5°	397.1	367.1	332.1	294.7	222.2	147.3	139.8	129.9	129.9	129.9	132.4
20°	399.6	289.7	244.7	199.8	159.8	117.4	109.9	99.9	94.9	87.4	102.4
22.5°	392.1	344.6	234.7	124.9	109.9	94.9	87.4	77.4	89.9	102.4	102.4
25°	379.6	227.2	169.8	109.9	92.4	74.9	84.9	92.4	87.4	79.9	92.4
27.5°	382.1	214.8	147.3	79.9	84.9	87.4	82.4	74.9	82.4	87.4	82.4
30°	412.0	167.3	124.9	79.9	77.4	72.4	74.9	77.4	74.9	69.9	74.9
32.5°	367.1	132.4	104.9	74.9	72.4	69.9	67.4	64.9	67.4	67.4	67.4
35°	309.7	99.9	84.9	69.9	64.9	59.9	59.9	57.4	57.4	57.4	57.4
37.5°	262.2	84.9	74.9	62.4	57.4	52.4	49.9	44.9	44.9	42.5	42.5
40°	212.3	77.4	67.4	54.9	49.9	42.5	40.0	35.0	35.0	32.5	32.5
42.5°	159.8	69.9	59.9	47.4	42.5	35.0	30.0	25.0	25.0	22.5	22.5
45°	114.9	62.4	52.4	40.0	35.0	27.5	22.5	17.5	17.5	15.0	15.0
47.5°	89.9	57.4	47.4	35.0	27.5	20.0	17.5	12.5	12.5	12.5	12.5
50°	72.4	49.9	40.0	27.5	20.0	12.5	10.0	7.5	7.5	7.5	7.5
52.5°	64.9	44.9	35.0	22.5	17.5	10.0	7.5	5.0	7.5	7.5	7.5
55°	57.4	40.0	30.0	17.5	12.5	7.5	7.5	5.0	7.5	7.5	7.5
57.5°	52.4	35.0	25.0	12.5	10.0	5.0	5.0	2.5	5.0	5.0	5.0
60°	44.9	30.0	20.0	10.0	7.5	2.5	2.5	2.5	5.0	5.0	5.0
62.5°	40.0	25.0	17.5	7.5	5.0	2.5	2.5	2.5	5.0	5.0	5.0
65°	32.5	17.5	12.5	5.0	5.0	2.5	2.5	2.5	5.0	5.0	5.0
67.5°	25.0	12.5	10.0	5.0	5.0	2.5	2.5	2.5	5.0	5.0	2.5
70°	17.5	10.0	7.5	2.5	2.5	2.5	2.5	2.5	5.0	5.0	2.5
72.5°	12.5	7.5	5.0	2.5	2.5	0.0	2.5	2.5	5.0	5.0	5.0
75°	12.5	7.5	5.0	2.5	2.5	0.0	2.5	5.0	5.0	5.0	5.0
77.5°	10.0	5.0	5.0	2.5	2.5	0.0	2.5	5.0	5.0	5.0	5.0
80°	7.5	5.0	5.0	2.5	2.5	0.0	5.0	7.5	7.5	7.5	5.0
82.5°	5.0	5.0	5.0	2.5	2.5	0.0	5.0	7.5	7.5	7.5	5.0
85°	5.0	5.0	5.0	5.0	2.5	0.0	5.0	7.5	7.5	7.5	7.5
87.5°	5.0	5.0	5.0	5.0	5.0	2.5	7.5	10.0	10.0	7.5	7.5
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):

	165°	170°	175°	180°
0°	676.7	676.7	676.7	676.7
2.5°	589.3	589.3	586.8	594.3
5°	551.9	551.9	551.9	554.4
7.5°	479.5	462.0	444.5	447.0
10°	437.0	432.0	424.5	429.5
12.5°	269.7	254.7	237.2	229.7
15°	164.8	164.8	164.8	162.3
17.5°	134.8	124.9	112.4	114.9
20°	117.4	119.9	122.4	122.4
22.5°	102.4	97.4	92.4	92.4
25°	102.4	102.4	102.4	102.4
27.5°	77.4	77.4	74.9	74.9
30°	79.9	79.9	77.4	74.9
32.5°	64.9	64.9	64.9	64.9
35°	54.9	52.4	49.9	49.9
37.5°	42.5	40.0	37.5	37.5
40°	30.0	30.0	27.5	27.5
42.5°	22.5	22.5	20.0	20.0
45°	15.0	15.0	15.0	15.0
47.5°	10.0	10.0	10.0	10.0
50°	7.5	7.5	7.5	7.5
52.5°	7.5	7.5	5.0	5.0
55°	5.0	5.0	5.0	5.0
57.5°	5.0	5.0	5.0	5.0
60°	5.0	5.0	2.5	2.5
62.5°	2.5	2.5	2.5	2.5
65°	2.5	2.5	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	2.5	2.5	0.0	0.0
75°	2.5	2.5	0.0	0.0
77.5°	2.5	2.5	0.0	0.0
80°	2.5	2.5	0.0	0.0
82.5°	2.5	2.5	2.5	0.0
85°	5.0	5.0	2.5	0.0
87.5°	5.0	5.0	2.5	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)