

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: P559924

Luminaire Tested: **SDL-PA1-100-827-U-T2U-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-827-U-T2U-HSS
Description: Springdale
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5480.7 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 93.8
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



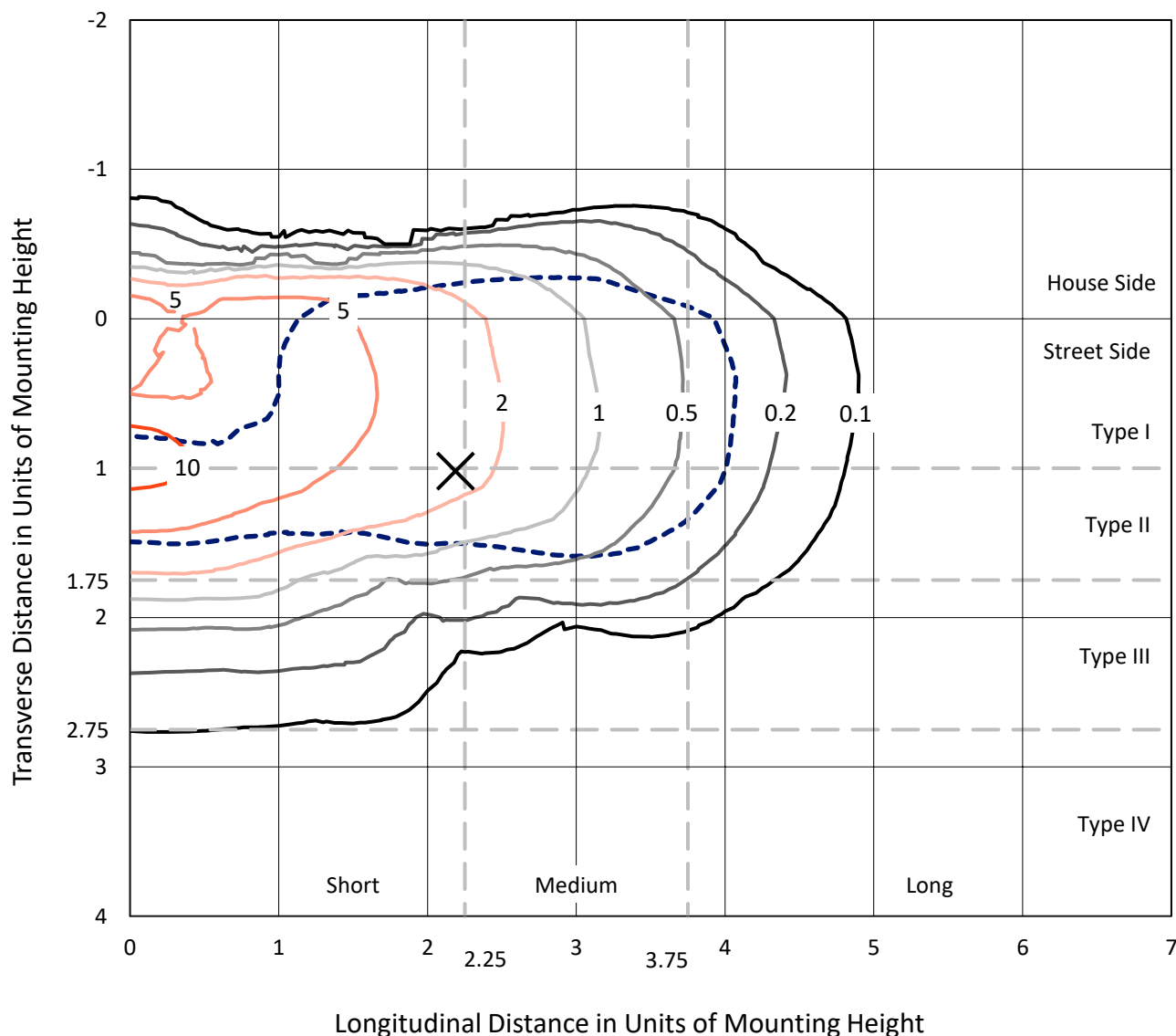
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

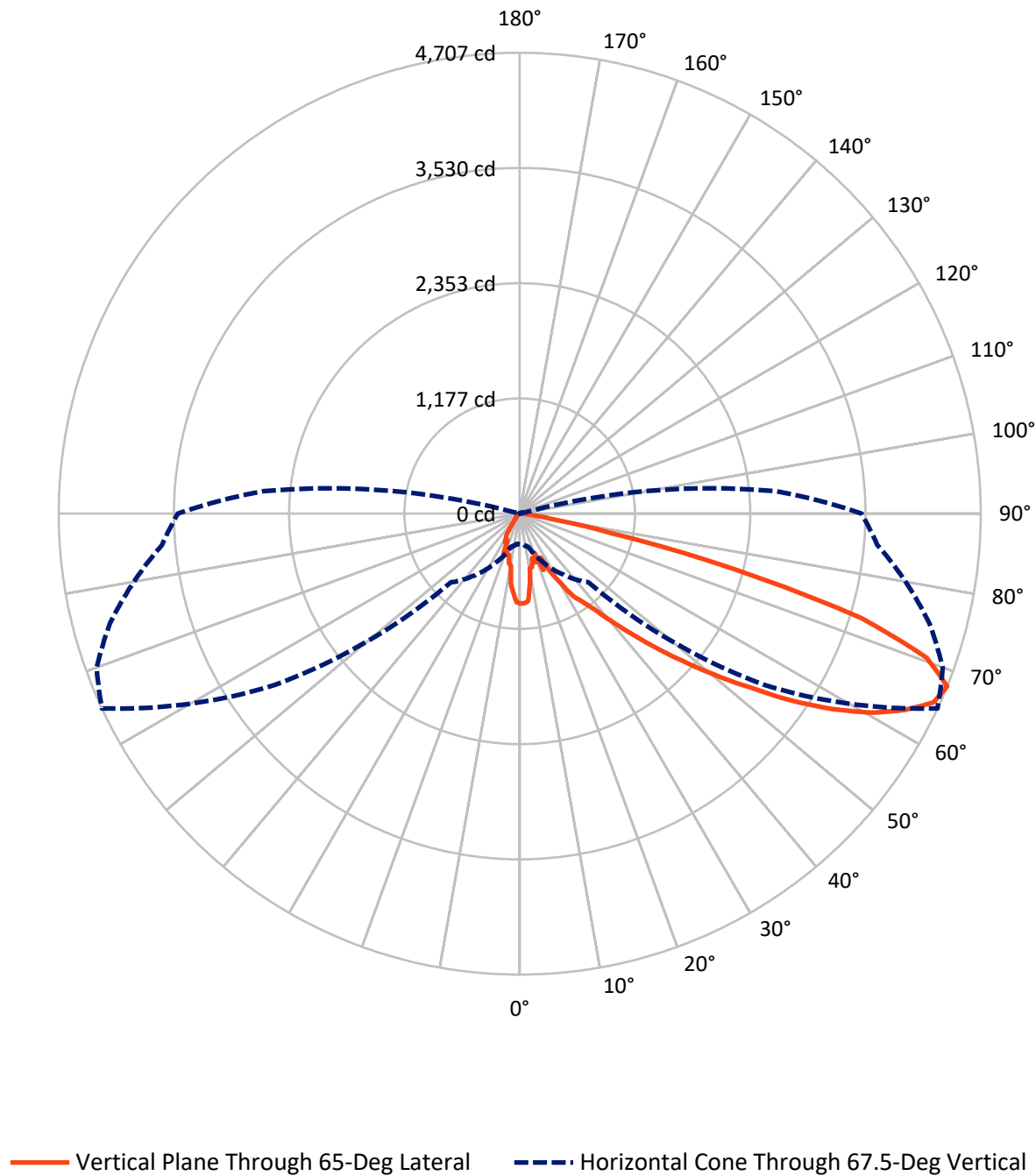


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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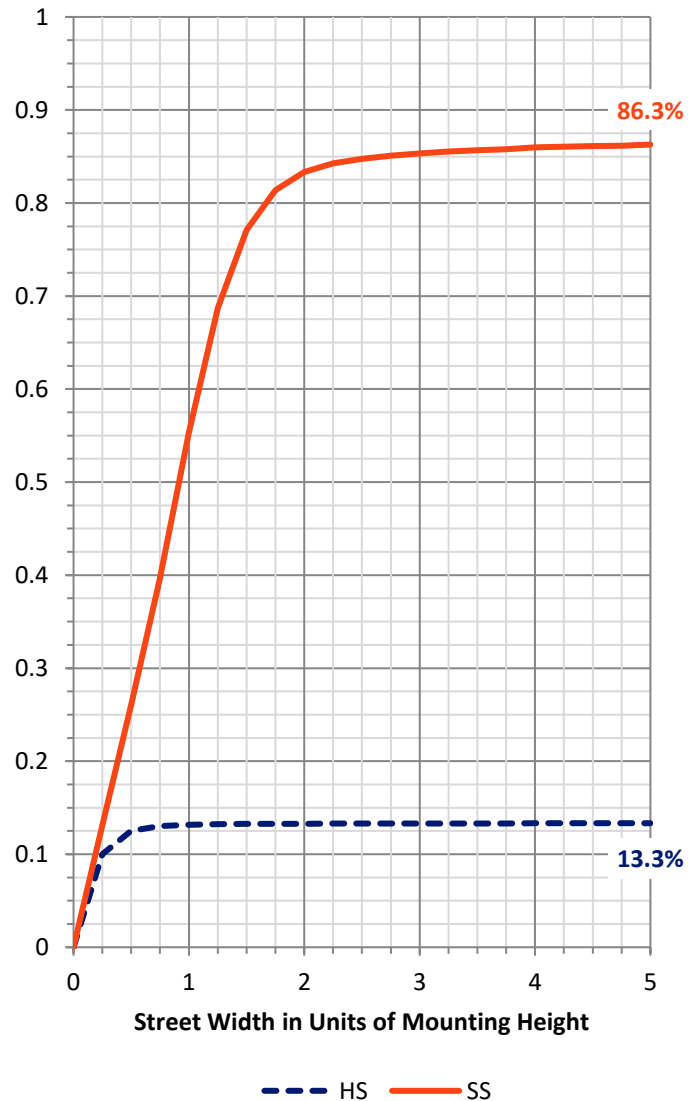
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	741.1	0.0	741.1
	% Fixture	13.5	0.0	13.5
Street Side	Lumens	4739.7	0.0	4739.7
	% Fixture	86.5	0.0	86.5
Total	Lumens	5480.7	0.0	5480.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.3
10°-20°	136.2	2.5
20°-30°	205.7	3.8
30°-40°	473.8	8.6
40°-50°	1039.4	19.0
50°-60°	1525.9	27.8
60°-70°	1325.4	24.2
70°-80°	657.2	12.0
80°-90°	46.7	0.9
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°	5480.7	100.0
0°-180°	5480.7	100.0



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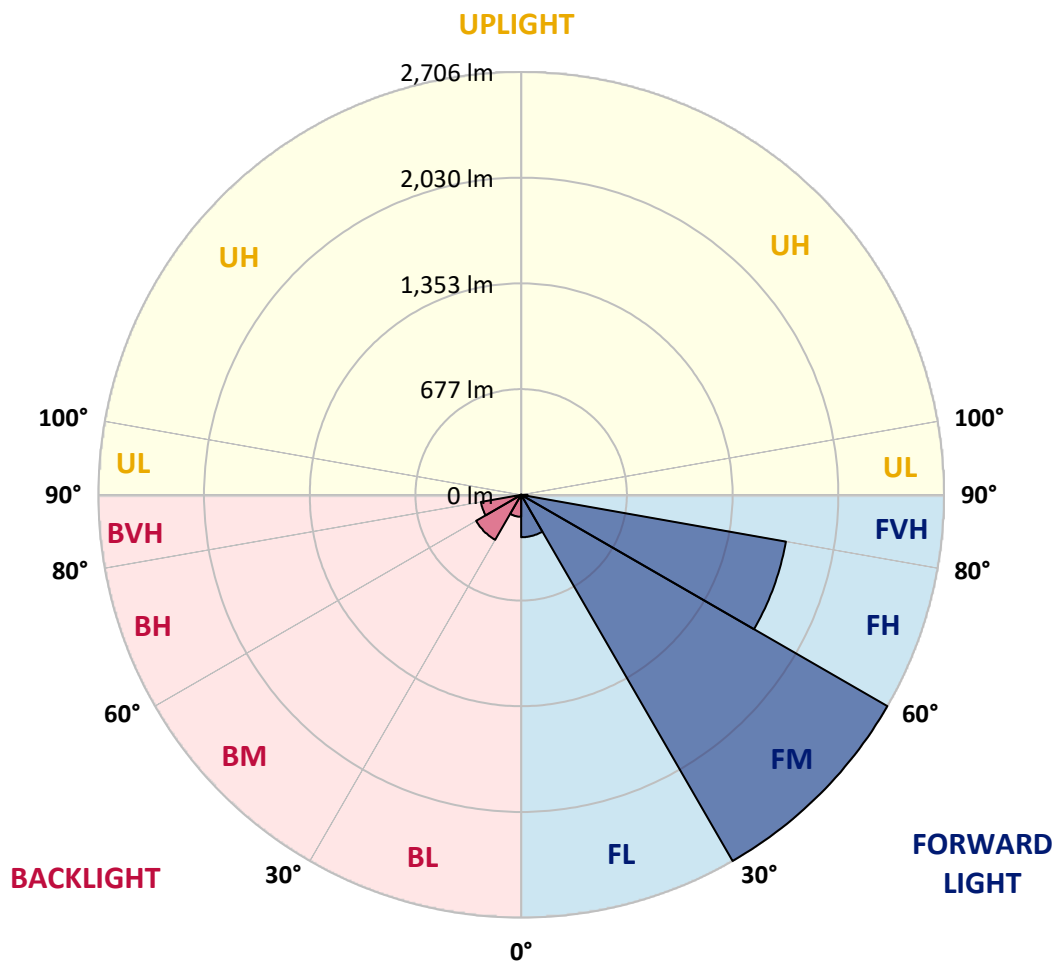
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.6	5.0			
FM	(30°-60°)	2706.3	49.4			
FH	(60°-80°)	1720.7	31.4			G1/1800
FVH	(80°-90°)	41.0	0.7			G1/100
BL	(0°-30°)	140.8	2.6	B1/500		
BM	(30°-60°)	332.9	6.1	B1/1000		
BH	(60°-80°)	261.8	4.8	B1/500		G1/500
BVH	(80°-90°)	5.6	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	768.3	831.9	851.3	870.6	887.2	903.8	906.5	909.3	914.8	917.6	920.4
5°	751.8	754.5	754.5	751.8	754.5	757.3	757.3	757.3	757.3	757.3	760.1
7.5°	602.5	674.4	696.5	715.8	726.9	735.2	740.7	743.5	746.2	749.0	751.8
10°	726.9	724.1	726.9	726.9	729.7	729.7	666.1	602.5	624.6	644.0	610.8
12.5°	577.6	635.7	660.6	685.4	702.0	715.8	688.2	657.8	599.8	538.9	541.7
15°	696.5	696.5	696.5	696.5	644.0	588.7	552.8	514.1	544.5	572.1	516.8
17.5°	561.1	561.1	610.8	660.6	660.6	657.8	621.9	583.2	505.8	428.4	497.5
20°	693.7	693.7	696.5	699.3	608.0	516.8	547.2	574.9	585.9	597.0	572.1
22.5°	566.6	566.6	574.9	580.4	613.6	646.7	558.3	469.9	541.7	613.6	563.8
25°	732.4	735.2	740.7	743.5	660.6	574.9	613.6	652.3	574.9	497.5	574.9
27.5°	663.3	652.3	652.3	649.5	677.1	702.0	646.7	591.5	641.2	691.0	632.9
30°	931.4	923.1	912.1	901.0	796.0	691.0	693.7	693.7	674.4	655.0	688.2
32.5°	1290.7	1276.9	1182.9	1089.0	1011.6	934.2	854.0	773.9	801.5	826.4	809.8
35°	1732.9	1732.9	1644.5	1556.0	1381.9	1207.8	1072.4	934.2	923.1	912.1	928.6
37.5°	2258.1	2202.8	2097.8	1992.7	1777.1	1558.8	1351.5	1144.2	1119.4	1091.7	1064.1
40°	2647.8	2639.5	2559.3	2479.2	2213.8	1948.5	1705.3	1459.3	1379.2	1296.2	1235.4
42.5°	3054.0	3023.6	2960.1	2893.7	2625.6	2354.8	2095.0	1832.4	1721.9	1611.3	1503.5
45°	3347.0	3338.7	3283.4	3228.2	3009.8	2788.7	2517.9	2244.2	2172.4	2100.5	1898.8
47.5°	3529.4	3482.4	3460.3	3435.4	3247.5	3059.6	2830.2	2598.0	2586.9	2573.1	2318.9
50°	3474.1	3432.7	3438.2	3443.7	3352.5	3261.3	3087.2	2910.3	2940.7	2971.1	2761.1
52.5°	3181.2	3145.2	3195.0	3242.0	3239.2	3236.5	3172.9	3106.6	3217.1	3324.9	3181.2
55°	2595.2	2620.1	2719.6	2819.1	2885.4	2949.0	3040.2	3128.7	3338.7	3546.0	3518.4
57.5°	2034.2	2089.5	2191.7	2291.2	2399.0	2504.0	2697.5	2891.0	3244.7	3595.7	3717.4
60°	1365.3	1401.3	1580.9	1757.8	1857.3	1956.8	2166.8	2374.1	2855.0	3333.2	3651.0
62.5°	848.5	867.8	970.1	1072.4	1274.1	1475.9	1580.9	1683.2	2202.8	2719.6	3308.3
65°	522.4	516.8	558.3	597.0	796.0	992.2	1061.3	1127.6	1473.1	1815.8	2730.7
67.5°	312.3	309.5	331.7	353.8	445.0	536.2	644.0	751.8	873.4	992.2	2023.1
70°	254.3	259.8	268.1	276.4	301.3	326.1	425.6	525.1	522.4	519.6	1216.1
72.5°	212.8	218.3	234.9	248.7	268.1	284.7	342.7	398.0	373.1	348.2	580.4
75°	157.5	160.3	182.4	201.8	232.2	259.8	273.6	284.7	273.6	262.6	293.0
77.5°	105.0	105.0	124.4	143.7	174.1	204.5	221.1	237.7	218.3	199.0	207.3
80°	66.3	66.3	77.4	85.7	116.1	146.5	165.8	185.2	168.6	149.2	146.5
82.5°	38.7	41.5	47.0	52.5	71.9	91.2	105.0	118.8	138.2	154.8	124.4
85°	16.6	19.3	24.9	27.6	38.7	47.0	55.3	63.6	80.2	96.7	80.2
87.5°	2.8	2.8	5.5	8.3	11.1	13.8	13.8	13.8	13.8	11.1	13.8
90°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	920.4	917.6	914.8	914.8	914.8	912.1	909.3	909.3	909.3	906.5	903.8
5°	760.1	829.2	898.2	901.0	906.5	903.8	901.0	898.2	895.5	892.7	887.2
7.5°	751.8	746.2	740.7	721.4	787.7	787.7	784.9	784.9	779.4	757.3	735.2
10°	574.9	572.1	566.6	574.9	588.7	635.7	679.9	677.1	668.8	616.3	563.8
12.5°	544.5	552.8	561.1	533.4	480.9	525.1	569.4	563.8	558.3	511.3	461.6
15°	461.6	467.1	472.6	516.8	597.0	638.4	677.1	671.6	666.1	610.8	552.8
17.5°	566.6	544.5	522.4	552.8	525.1	544.5	563.8	541.7	525.1	503.0	480.9
20°	544.5	486.4	428.4	516.8	619.1	652.3	685.4	677.1	660.6	608.0	552.8
22.5°	511.3	569.4	624.6	597.0	547.2	516.8	486.4	472.6	461.6	464.3	467.1
25°	649.5	574.9	497.5	630.2	710.3	721.4	729.7	704.8	677.1	619.1	558.3
27.5°	572.1	627.4	679.9	732.4	760.1	768.3	773.9	809.8	751.8	674.4	597.0
30°	721.4	768.3	815.3	931.4	1025.4	1042.0	1058.5	1017.1	970.1	876.1	782.2
32.5°	793.2	901.0	1006.0	1061.3	1100.0	1113.8	1127.6	1072.4	1019.9	898.2	773.9
35°	942.5	1022.6	1102.8	1166.3	1241.0	1243.7	1246.5	1185.7	1119.4	942.5	765.6
37.5°	1033.7	1138.7	1241.0	1312.8	1428.9	1420.6	1412.3	1340.5	1260.3	1011.6	762.8
40°	1171.9	1307.3	1440.0	1509.1	1650.0	1625.1	1600.3	1517.3	1428.9	1086.2	743.5
42.5°	1395.7	1539.5	1683.2	1741.2	1896.0	1868.4	1838.0	1727.4	1614.1	1147.0	679.9
45°	1694.2	1824.1	1954.0	2056.3	2177.9	2133.7	2089.5	1970.6	1804.8	1199.5	594.2
47.5°	2061.8	2158.6	2255.3	2457.0	2545.5	2457.0	2365.8	2222.1	2012.1	1243.7	475.4
50°	2551.0	2573.1	2592.5	2844.0	2932.4	2797.0	2661.6	2476.4	2224.9	1293.5	359.3
52.5°	3034.7	2993.2	2949.0	3219.9	3253.0	3073.4	2891.0	2697.5	2382.4	1321.1	257.0
55°	3490.7	3432.7	3371.9	3565.3	3543.2	3305.5	3067.9	2832.9	2479.2	1329.4	179.6
57.5°	3839.0	3803.0	3764.3	3852.8	3769.9	3490.7	3211.6	2976.7	2551.0	1343.2	132.7
60°	3966.1	4046.3	4126.4	4115.4	3963.3	3667.6	3371.9	3123.1	2595.2	1348.8	99.5
62.5°	3897.0	4156.8	4413.8	4308.8	4123.6	3811.3	3496.3	3255.8	2614.6	1346.0	77.4
65°	3645.5	4145.8	4643.2	4469.1	4237.0	3924.6	3612.3	3396.8	2636.7	1348.8	60.8
67.5°	3051.3	3880.4	4706.8	4596.3	4330.9	3999.3	3664.8	3490.7	2625.6	1337.7	49.7
70°	1909.8	3159.1	4408.3	4494.0	4330.9	3966.1	3601.3	3463.1	2526.1	1282.4	38.7
72.5°	809.8	2230.4	3651.0	4024.1	4137.5	3783.7	3429.9	3258.6	2313.3	1171.9	30.4
75°	320.6	1282.4	2244.2	2835.7	3183.9	3034.7	2882.7	2653.3	1517.3	771.1	22.1
77.5°	215.6	585.9	956.3	1393.0	1661.1	1719.1	1777.1	1514.6	605.3	312.3	16.6
80°	143.7	234.9	326.1	500.3	597.0	563.8	527.9	433.9	185.2	99.5	13.8
82.5°	91.2	121.6	152.0	171.4	176.9	127.1	77.4	63.6	22.1	16.6	8.3
85°	60.8	71.9	82.9	85.7	85.7	60.8	33.2	16.6	8.3	8.3	5.5
87.5°	16.6	19.3	19.3	19.3	13.8	11.1	8.3	5.5	5.5	5.5	5.5
90°	8.3	11.1	11.1	11.1	8.3	8.3	5.5	5.5	5.5	5.5	5.5

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	903.8	903.8	901.0	898.2	898.2	895.5	867.8	837.4	809.8	779.4	776.6
5°	851.3	812.6	776.6	740.7	735.2	726.9	726.9	724.1	724.1	721.4	721.4
7.5°	729.7	724.1	718.6	713.1	710.3	704.8	702.0	696.5	693.7	688.2	657.8
10°	552.8	538.9	538.9	536.2	541.7	547.2	544.5	538.9	574.9	610.8	608.0
12.5°	492.0	519.6	494.7	467.1	475.4	480.9	489.2	497.5	494.7	489.2	447.7
15°	494.7	433.9	414.6	392.5	403.5	411.8	340.0	265.3	251.5	237.7	221.1
17.5°	461.6	442.2	428.4	411.8	315.1	215.6	193.5	171.4	152.0	129.9	127.1
20°	467.1	378.6	353.8	326.1	251.5	176.9	135.4	94.0	82.9	71.9	82.9
22.5°	456.0	442.2	323.4	204.5	152.0	99.5	82.9	63.6	69.1	74.6	74.6
25°	428.4	298.5	232.2	165.8	116.1	63.6	66.3	66.3	60.8	52.5	58.0
27.5°	464.3	328.9	210.1	88.4	77.4	63.6	58.0	49.7	49.7	49.7	47.0
30°	536.2	287.4	179.6	71.9	60.8	49.7	47.0	44.2	41.5	35.9	38.7
32.5°	508.5	243.2	152.0	60.8	52.5	44.2	38.7	33.2	33.2	33.2	33.2
35°	461.6	154.8	105.0	52.5	44.2	35.9	33.2	27.6	27.6	27.6	27.6
37.5°	431.2	99.5	71.9	41.5	35.9	30.4	27.6	22.1	22.1	22.1	24.9
40°	406.3	69.1	52.5	35.9	30.4	22.1	19.3	16.6	19.3	19.3	19.3
42.5°	370.4	58.0	44.2	30.4	24.9	19.3	16.6	13.8	16.6	16.6	16.6
45°	323.4	52.5	38.7	24.9	22.1	16.6	13.8	11.1	13.8	13.8	13.8
47.5°	259.8	44.2	33.2	22.1	19.3	13.8	13.8	11.1	11.1	11.1	11.1
50°	201.8	41.5	30.4	19.3	16.6	11.1	11.1	8.3	11.1	11.1	11.1
52.5°	146.5	35.9	27.6	16.6	13.8	8.3	8.3	8.3	8.3	8.3	8.3
55°	105.0	30.4	22.1	13.8	11.1	8.3	8.3	5.5	8.3	8.3	8.3
57.5°	80.2	27.6	19.3	11.1	8.3	5.5	5.5	5.5	5.5	5.5	5.5
60°	63.6	24.9	19.3	11.1	8.3	5.5	5.5	2.8	5.5	5.5	5.5
62.5°	49.7	19.3	16.6	11.1	8.3	5.5	5.5	2.8	5.5	5.5	5.5
65°	38.7	16.6	13.8	8.3	5.5	2.8	2.8	2.8	5.5	5.5	5.5
67.5°	33.2	13.8	11.1	8.3	5.5	2.8	5.5	5.5	5.5	5.5	5.5
70°	27.6	13.8	11.1	8.3	5.5	2.8	5.5	5.5	8.3	8.3	5.5
72.5°	22.1	11.1	8.3	5.5	5.5	2.8	5.5	5.5	8.3	8.3	5.5
75°	16.6	8.3	8.3	5.5	5.5	2.8	5.5	8.3	8.3	8.3	5.5
77.5°	13.8	8.3	8.3	5.5	5.5	2.8	5.5	8.3	8.3	8.3	8.3
80°	11.1	5.5	5.5	5.5	2.8	0.0	5.5	11.1	11.1	8.3	8.3
82.5°	8.3	5.5	5.5	5.5	2.8	0.0	5.5	11.1	11.1	8.3	8.3
85°	5.5	5.5	5.5	5.5	5.5	2.8	8.3	11.1	11.1	8.3	8.3
87.5°	5.5	5.5	5.5	5.5	5.5	2.8	5.5	8.3	8.3	8.3	8.3
90°	5.5	5.5	8.3	8.3	5.5	2.8	5.5	8.3	8.3	8.3	8.3

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	917.6	917.6	917.6	917.6
2.5°	771.1	776.6	779.4	773.9
5°	718.6	718.6	715.8	724.1
7.5°	624.6	608.0	588.7	574.9
10°	602.5	588.7	574.9	577.6
12.5°	403.5	362.1	320.6	334.4
15°	204.5	193.5	182.4	182.4
17.5°	121.6	110.6	96.7	99.5
20°	91.2	91.2	91.2	91.2
22.5°	71.9	69.1	63.6	60.8
25°	60.8	60.8	60.8	60.8
27.5°	44.2	44.2	41.5	38.7
30°	38.7	38.7	38.7	35.9
32.5°	30.4	33.2	33.2	33.2
35°	27.6	27.6	27.6	27.6
37.5°	24.9	24.9	22.1	22.1
40°	19.3	19.3	19.3	19.3
42.5°	16.6	16.6	16.6	16.6
45°	13.8	13.8	13.8	13.8
47.5°	11.1	11.1	11.1	11.1
50°	11.1	11.1	8.3	8.3
52.5°	8.3	8.3	5.5	5.5
55°	5.5	5.5	5.5	5.5
57.5°	5.5	5.5	2.8	2.8
60°	5.5	5.5	2.8	2.8
62.5°	2.8	2.8	2.8	2.8
65°	2.8	2.8	0.0	0.0
67.5°	2.8	2.8	0.0	0.0
70°	2.8	2.8	0.0	0.0
72.5°	2.8	2.8	0.0	0.0
75°	2.8	2.8	0.0	0.0
77.5°	5.5	2.8	0.0	0.0
80°	5.5	5.5	2.8	0.0
82.5°	5.5	5.5	2.8	0.0
85°	5.5	5.5	2.8	0.0
87.5°	5.5	5.5	2.8	0.0
90°	5.5	5.5	2.8	0.0

(END OF REPORT)