

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: P560518

Luminaire Tested: **SDL-PA1-50-727-U-T2U-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560518
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-PA1-50-727-U-T2U-HSS
Description: Springdale
(1) 70 CRI, 2700K, 670mA 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: 3887.6 lumens
Efficiency: N/A
Efficacy: 74.2 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): 52.4
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

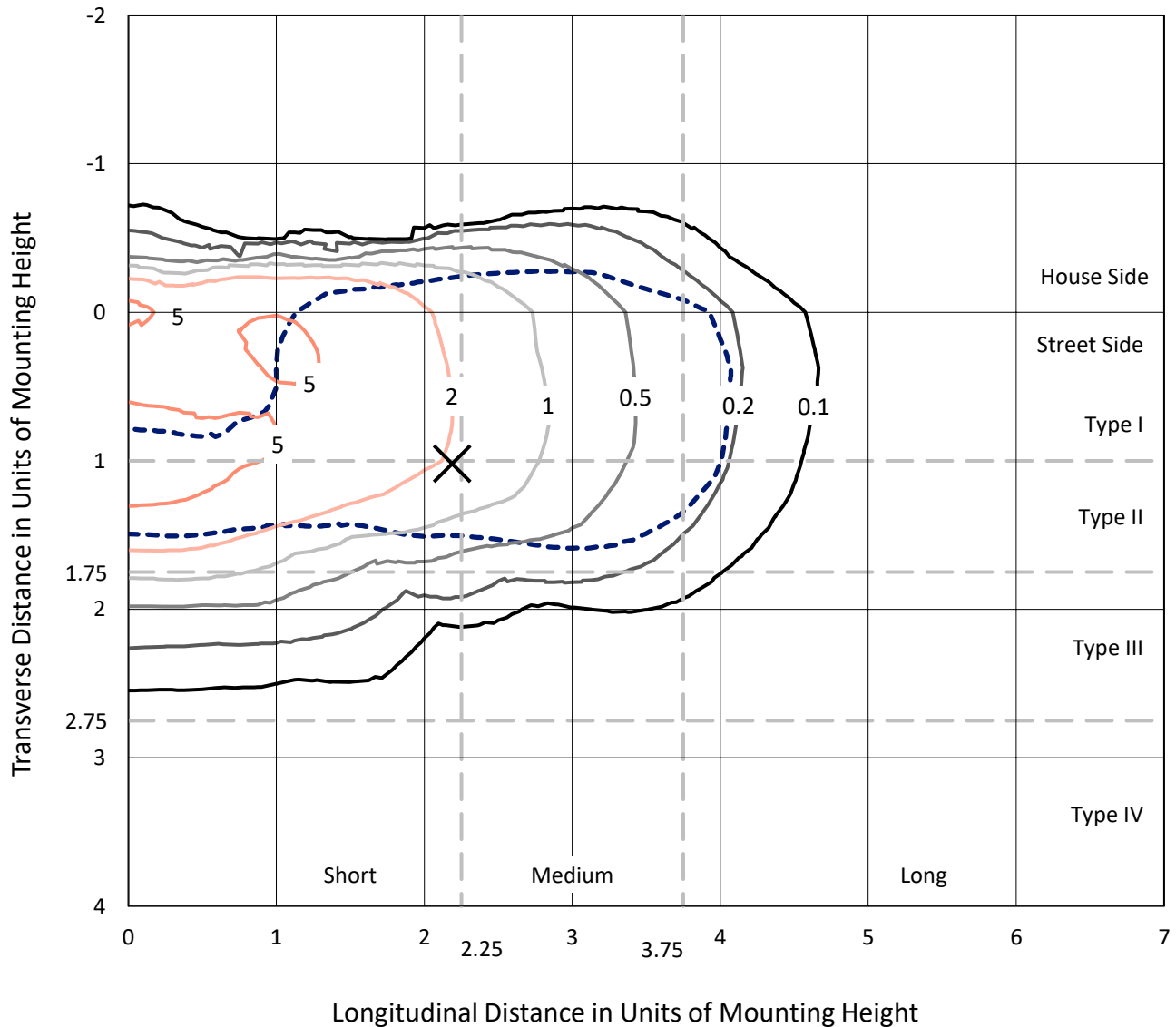


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

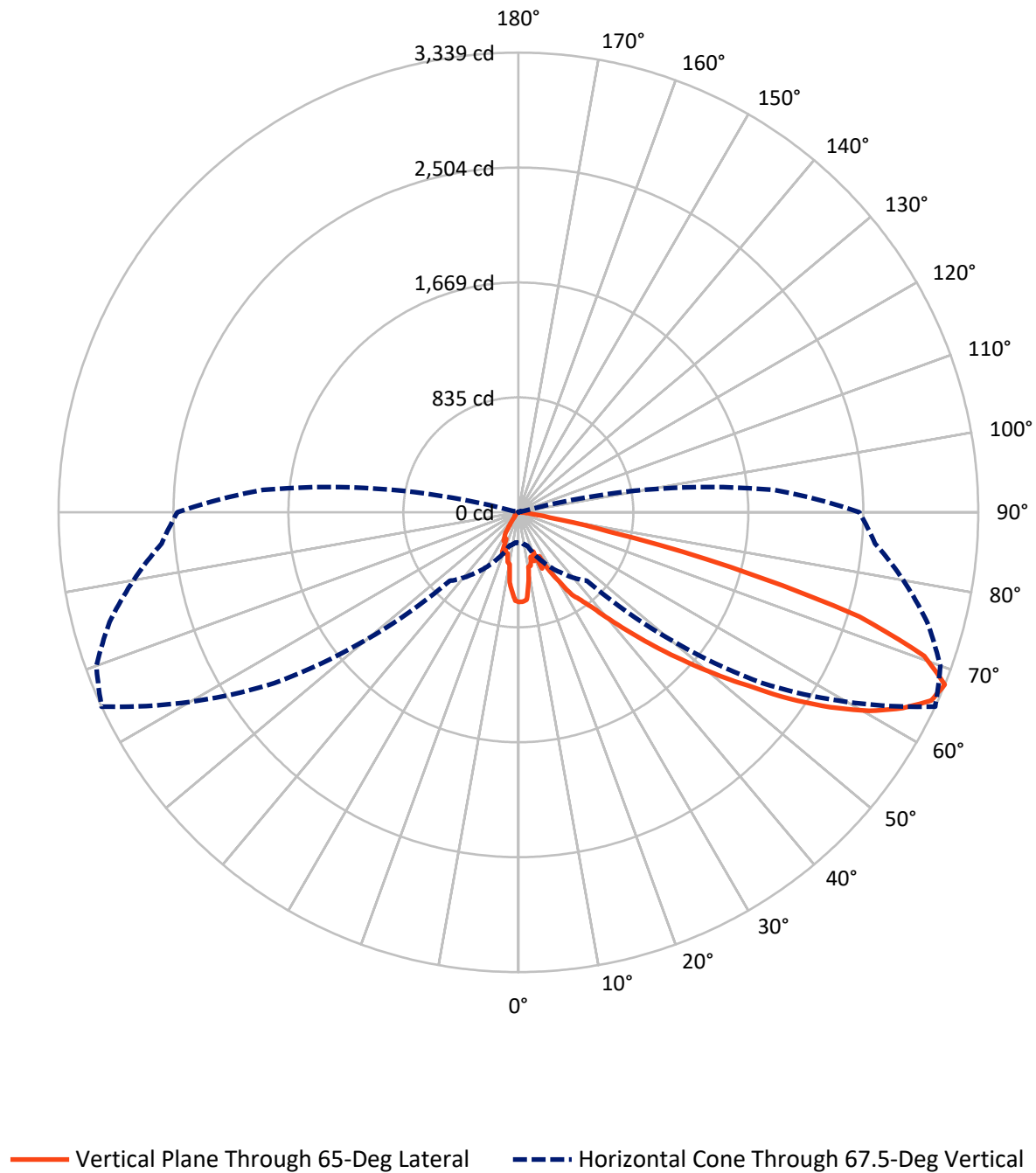


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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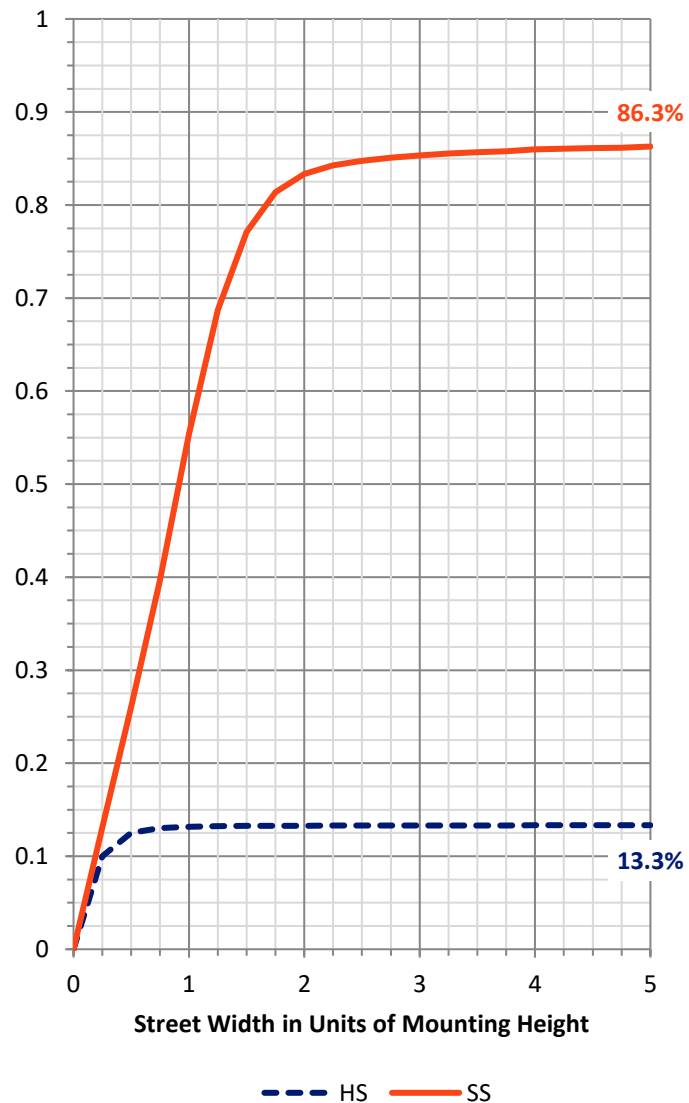
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	525.7	0.0	525.7
	% Fixture	13.5	0.0	13.5
Street Side	Lumens	3361.9	0.0	3361.9
	% Fixture	86.5	0.0	86.5
Total	Lumens	3887.6	0.0	3887.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.3
10°-20°	96.6	2.5
20°-30°	145.9	3.8
30°-40°	336.1	8.6
40°-50°	737.3	19.0
50°-60°	1082.3	27.8
60°-70°	940.1	24.2
70°-80°	466.1	12.0
80°-90°	33.1	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°	3887.6	100.0
0°-180°	3887.6	100.0

Coefficient of Utilization



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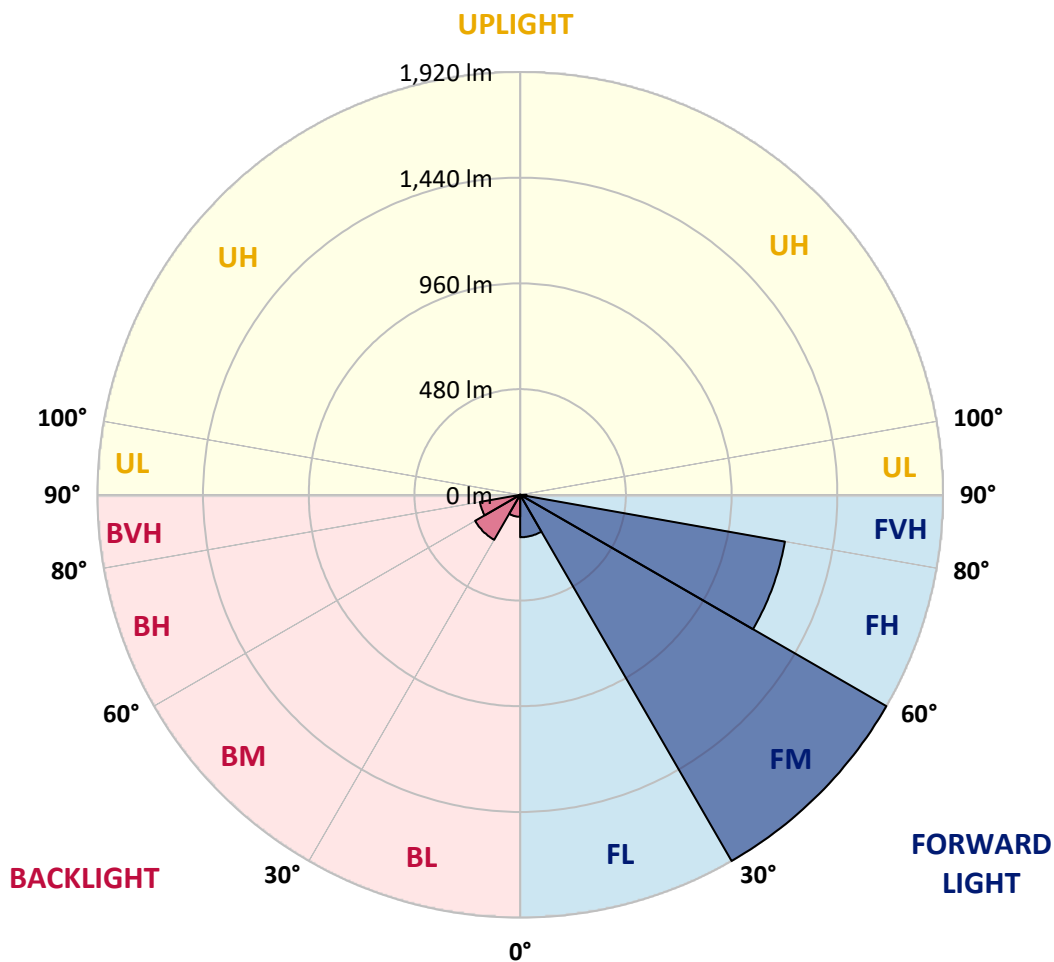
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.7	5.0			
FM	(30°-60°)	1919.6	49.4			
FH	(60°-80°)	1220.5	31.4			G1/1800
FVH	(80°-90°)	29.1	0.7			G1/100
BL	(0°-30°)	99.9	2.6	B0/110		
BM	(30°-60°)	236.1	6.1	B1/1000		
BH	(60°-80°)	185.7	4.8	B1/500		G1/500
BVH	(80°-90°)	4.0	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°	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9
2.5°	545.0	590.1	603.8	617.5	629.3	641.1	643.0	645.0	648.9	650.9	652.8
5°	533.2	535.2	535.2	533.2	535.2	537.2	537.2	537.2	537.2	537.2	539.1
7.5°	427.4	478.3	494.0	507.7	515.6	521.5	525.4	527.4	529.3	531.3	533.2
10°	515.6	513.6	515.6	515.6	517.6	517.6	472.5	427.4	443.1	456.8	433.3
12.5°	409.7	450.9	468.5	486.2	497.9	507.7	488.1	466.6	425.4	382.3	384.2
15°	494.0	494.0	494.0	494.0	456.8	417.6	392.1	364.6	386.2	405.8	366.6
17.5°	398.0	398.0	433.3	468.5	468.5	466.6	441.1	413.6	358.8	303.9	352.9
20°	492.1	492.1	494.0	496.0	431.3	366.6	388.2	407.8	415.6	423.5	405.8
22.5°	401.9	401.9	407.8	411.7	435.2	458.7	396.0	333.3	384.2	435.2	399.9
25°	519.5	521.5	525.4	527.4	468.5	407.8	435.2	462.7	407.8	352.9	407.8
27.5°	470.5	462.7	462.7	460.7	480.3	497.9	458.7	419.5	454.8	490.1	448.9
30°	660.7	654.8	646.9	639.1	564.6	490.1	492.1	492.1	478.3	464.6	488.1
32.5°	915.5	905.7	839.1	772.4	717.5	662.6	605.8	548.9	568.5	586.2	574.4
35°	1229.2	1229.2	1166.5	1103.7	980.2	856.7	760.6	662.6	654.8	646.9	658.7
37.5°	1601.7	1562.5	1488.0	1413.5	1260.6	1105.7	958.6	811.6	794.0	774.4	754.8
40°	1878.1	1872.2	1815.3	1758.5	1570.3	1382.1	1209.6	1035.1	978.2	919.4	876.3
42.5°	2166.3	2144.7	2099.6	2052.6	1862.4	1670.3	1486.0	1299.8	1221.3	1142.9	1066.5
45°	2374.1	2368.2	2329.0	2289.8	2134.9	1978.1	1785.9	1591.9	1540.9	1489.9	1346.8
47.5°	2503.5	2470.1	2454.4	2436.8	2303.5	2170.2	2007.5	1842.8	1835.0	1825.2	1644.8
50°	2464.2	2434.8	2438.8	2442.7	2378.0	2313.3	2189.8	2064.3	2085.9	2107.5	1958.5
52.5°	2256.4	2231.0	2266.2	2299.6	2297.6	2295.7	2250.6	2203.5	2281.9	2358.4	2256.4
55°	1840.8	1858.5	1929.1	1999.6	2046.7	2091.8	2156.5	2219.2	2368.2	2515.2	2495.6
57.5°	1442.9	1482.1	1554.6	1625.2	1701.6	1776.1	1913.4	2050.6	2301.5	2550.5	2636.8
60°	968.4	993.9	1121.4	1246.8	1317.4	1388.0	1537.0	1684.0	2025.1	2364.3	2589.7
62.5°	601.8	615.6	688.1	760.6	903.8	1046.9	1121.4	1193.9	1562.5	1929.1	2346.6
65°	370.5	366.6	396.0	423.5	564.6	703.8	752.8	799.9	1044.9	1288.0	1936.9
67.5°	221.5	219.6	235.3	250.9	315.6	380.3	456.8	533.2	619.5	703.8	1435.0
70°	180.4	184.3	190.2	196.0	213.7	231.3	301.9	372.5	370.5	368.6	862.6
72.5°	151.0	154.9	166.6	176.4	190.2	201.9	243.1	282.3	264.7	247.0	411.7
75°	111.7	113.7	129.4	143.1	164.7	184.3	194.1	201.9	194.1	186.2	207.8
77.5°	74.5	74.5	88.2	101.9	123.5	145.1	156.8	168.6	154.9	141.2	147.0
80°	47.1	47.1	54.9	60.8	82.3	103.9	117.6	131.3	119.6	105.9	103.9
82.5°	27.4	29.4	33.3	37.2	51.0	64.7	74.5	84.3	98.0	109.8	88.2
85°	11.8	13.7	17.6	19.6	27.4	33.3	39.2	45.1	56.9	68.6	56.9
87.5°	2.0	2.0	3.9	5.9	7.8	9.8	9.8	9.8	9.8	7.8	9.8
90°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9
2.5°	652.8	650.9	648.9	648.9	648.9	646.9	645.0	645.0	645.0	643.0	641.1
5°	539.1	588.1	637.1	639.1	643.0	641.1	639.1	637.1	635.2	633.2	629.3
7.5°	533.2	529.3	525.4	511.7	558.7	558.7	556.8	556.8	552.8	537.2	521.5
10°	407.8	405.8	401.9	407.8	417.6	450.9	482.3	480.3	474.4	437.2	399.9
12.5°	386.2	392.1	398.0	378.4	341.1	372.5	403.8	399.9	396.0	362.7	327.4
15°	327.4	331.3	335.2	366.6	423.5	452.9	480.3	476.4	472.5	433.3	392.1
17.5°	401.9	386.2	370.5	392.1	372.5	386.2	399.9	384.2	372.5	356.8	341.1
20°	386.2	345.0	303.9	366.6	439.1	462.7	486.2	480.3	468.5	431.3	392.1
22.5°	362.7	403.8	443.1	423.5	388.2	366.6	345.0	335.2	327.4	329.4	331.3
25°	460.7	407.8	352.9	447.0	503.8	511.7	517.6	499.9	480.3	439.1	396.0
27.5°	405.8	445.0	482.3	519.5	539.1	545.0	548.9	574.4	533.2	478.3	423.5
30°	511.7	545.0	578.3	660.7	727.3	739.1	750.8	721.4	688.1	621.5	554.8
32.5°	562.6	639.1	713.6	752.8	780.2	790.0	799.9	760.6	723.4	637.1	548.9
35°	668.5	725.4	782.2	827.3	880.2	882.2	884.1	841.0	794.0	668.5	543.0
37.5°	733.2	807.7	880.2	931.2	1013.5	1007.7	1001.8	950.8	894.0	717.5	541.1
40°	831.2	927.3	1021.4	1070.4	1170.4	1152.7	1135.1	1076.3	1013.5	770.4	527.4
42.5°	990.0	1092.0	1193.9	1235.1	1344.8	1325.2	1303.7	1225.3	1144.9	813.6	482.3
45°	1201.7	1293.9	1386.0	1458.6	1544.8	1513.4	1482.1	1397.8	1280.2	850.8	421.5
47.5°	1462.5	1531.1	1599.7	1742.8	1805.5	1742.8	1678.1	1576.2	1427.2	882.2	337.2
50°	1809.5	1825.2	1838.9	2017.3	2080.0	1983.9	1887.9	1756.5	1578.1	917.5	254.9
52.5°	2152.5	2123.1	2091.8	2283.9	2307.4	2180.0	2050.6	1913.4	1689.9	937.1	182.3
55°	2476.0	2434.8	2391.7	2528.9	2513.3	2344.7	2176.1	2009.4	1758.5	943.0	127.4
57.5°	2723.0	2697.5	2670.1	2732.8	2674.0	2476.0	2278.0	2111.4	1809.5	952.8	94.1
60°	2813.2	2870.1	2926.9	2919.1	2811.2	2601.5	2391.7	2215.3	1840.8	956.7	70.6
62.5°	2764.2	2948.5	3130.8	3056.3	2924.9	2703.4	2479.9	2309.4	1854.6	954.7	54.9
65°	2585.8	2940.6	3293.5	3170.0	3005.3	2783.8	2562.3	2409.4	1870.2	956.7	43.1
67.5°	2164.3	2752.4	3338.6	3260.2	3072.0	2836.7	2599.5	2476.0	1862.4	948.8	35.3
70°	1354.7	2240.8	3126.9	3187.6	3072.0	2813.2	2554.4	2456.4	1791.8	909.6	27.4
72.5°	574.4	1582.1	2589.7	2854.4	2934.7	2683.8	2432.9	2311.3	1640.9	831.2	21.6
75°	227.4	909.6	1591.9	2011.4	2258.4	2152.5	2044.7	1882.0	1076.3	547.0	15.7
77.5°	152.9	415.6	678.3	988.1	1178.2	1219.4	1260.6	1074.3	429.3	221.5	11.8
80°	101.9	166.6	231.3	354.8	423.5	399.9	374.4	307.8	131.3	70.6	9.8
82.5°	64.7	86.3	107.8	121.5	125.5	90.2	54.9	45.1	15.7	11.8	5.9
85°	43.1	51.0	58.8	60.8	60.8	43.1	23.5	11.8	5.9	5.9	3.9
87.5°	11.8	13.7	13.7	13.7	9.8	7.8	5.9	3.9	3.9	3.9	3.9
90°	5.9	7.8	7.8	7.8	5.9	5.9	3.9	3.9	3.9	3.9	3.9

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9	650.9
2.5°	641.1	641.1	639.1	637.1	637.1	635.2	615.6	594.0	574.4	552.8	550.9
5°	603.8	576.4	550.9	525.4	521.5	515.6	515.6	513.6	513.6	511.7	511.7
7.5°	517.6	513.6	509.7	505.8	503.8	499.9	497.9	494.0	492.1	488.1	466.6
10°	392.1	382.3	382.3	380.3	384.2	388.2	386.2	382.3	407.8	433.3	431.3
12.5°	349.0	368.6	350.9	331.3	337.2	341.1	347.0	352.9	350.9	347.0	317.6
15°	350.9	307.8	294.1	278.4	286.2	292.1	241.1	188.2	178.4	168.6	156.8
17.5°	327.4	313.7	303.9	292.1	223.5	152.9	137.2	121.5	107.8	92.1	90.2
20°	331.3	268.6	250.9	231.3	178.4	125.5	96.1	66.7	58.8	51.0	58.8
22.5°	323.5	313.7	229.4	145.1	107.8	70.6	58.8	45.1	49.0	52.9	52.9
25°	303.9	211.7	164.7	117.6	82.3	45.1	47.1	47.1	43.1	37.2	41.2
27.5°	329.4	233.3	149.0	62.7	54.9	45.1	41.2	35.3	35.3	35.3	33.3
30°	380.3	203.9	127.4	51.0	43.1	35.3	33.3	31.4	29.4	25.5	27.4
32.5°	360.7	172.5	107.8	43.1	37.2	31.4	27.4	23.5	23.5	23.5	23.5
35°	327.4	109.8	74.5	37.2	31.4	25.5	23.5	19.6	19.6	19.6	19.6
37.5°	305.8	70.6	51.0	29.4	25.5	21.6	19.6	15.7	15.7	15.7	17.6
40°	288.2	49.0	37.2	25.5	21.6	15.7	13.7	11.8	13.7	13.7	13.7
42.5°	262.7	41.2	31.4	21.6	17.6	13.7	11.8	9.8	11.8	11.8	11.8
45°	229.4	37.2	27.4	17.6	15.7	11.8	9.8	7.8	9.8	9.8	9.8
47.5°	184.3	31.4	23.5	15.7	13.7	9.8	9.8	7.8	7.8	7.8	7.8
50°	143.1	29.4	21.6	13.7	11.8	7.8	7.8	5.9	7.8	7.8	7.8
52.5°	103.9	25.5	19.6	11.8	9.8	5.9	5.9	5.9	5.9	5.9	5.9
55°	74.5	21.6	15.7	9.8	7.8	5.9	5.9	3.9	5.9	5.9	5.9
57.5°	56.9	19.6	13.7	7.8	5.9	3.9	3.9	3.9	3.9	3.9	3.9
60°	45.1	17.6	13.7	7.8	5.9	3.9	3.9	2.0	3.9	3.9	3.9
62.5°	35.3	13.7	11.8	7.8	5.9	3.9	3.9	2.0	3.9	3.9	3.9
65°	27.4	11.8	9.8	5.9	3.9	2.0	2.0	2.0	3.9	3.9	3.9
67.5°	23.5	9.8	7.8	5.9	3.9	2.0	3.9	3.9	3.9	3.9	3.9
70°	19.6	9.8	7.8	5.9	3.9	2.0	3.9	3.9	5.9	5.9	3.9
72.5°	15.7	7.8	5.9	3.9	3.9	2.0	3.9	3.9	5.9	5.9	3.9
75°	11.8	5.9	5.9	3.9	3.9	2.0	3.9	5.9	5.9	5.9	3.9
77.5°	9.8	5.9	5.9	3.9	3.9	2.0	3.9	5.9	5.9	5.9	5.9
80°	7.8	3.9	3.9	3.9	2.0	0.0	3.9	7.8	7.8	5.9	5.9
82.5°	5.9	3.9	3.9	3.9	2.0	0.0	3.9	7.8	7.8	5.9	5.9
85°	3.9	3.9	3.9	3.9	3.9	2.0	5.9	7.8	7.8	5.9	5.9
87.5°	3.9	3.9	3.9	3.9	3.9	2.0	3.9	5.9	5.9	5.9	5.9
90°	3.9	3.9	5.9	5.9	3.9	2.0	3.9	5.9	5.9	5.9	5.9

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	650.9	650.9	650.9	650.9
2.5°	547.0	550.9	552.8	548.9
5°	509.7	509.7	507.7	513.6
7.5°	443.1	431.3	417.6	407.8
10°	427.4	417.6	407.8	409.7
12.5°	286.2	256.8	227.4	237.2
15°	145.1	137.2	129.4	129.4
17.5°	86.3	78.4	68.6	70.6
20°	64.7	64.7	64.7	64.7
22.5°	51.0	49.0	45.1	43.1
25°	43.1	43.1	43.1	43.1
27.5°	31.4	31.4	29.4	27.4
30°	27.4	27.4	27.4	25.5
32.5°	21.6	23.5	23.5	23.5
35°	19.6	19.6	19.6	19.6
37.5°	17.6	17.6	15.7	15.7
40°	13.7	13.7	13.7	13.7
42.5°	11.8	11.8	11.8	11.8
45°	9.8	9.8	9.8	9.8
47.5°	7.8	7.8	7.8	7.8
50°	7.8	7.8	5.9	5.9
52.5°	5.9	5.9	3.9	3.9
55°	3.9	3.9	3.9	3.9
57.5°	3.9	3.9	2.0	2.0
60°	3.9	3.9	2.0	2.0
62.5°	2.0	2.0	2.0	2.0
65°	2.0	2.0	0.0	0.0
67.5°	2.0	2.0	0.0	0.0
70°	2.0	2.0	0.0	0.0
72.5°	2.0	2.0	0.0	0.0
75°	2.0	2.0	0.0	0.0
77.5°	3.9	2.0	0.0	0.0
80°	3.9	3.9	2.0	0.0
82.5°	3.9	3.9	2.0	0.0
85°	3.9	3.9	2.0	0.0
87.5°	3.9	3.9	2.0	0.0
90°	3.9	3.9	2.0	0.0

(END OF REPORT)