

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: P561362

Luminaire Tested: **SDL-PA1-90-830-U-T4W-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-10)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-830-U-T4W-HSS
Description: Springdale
(1) 80 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5885.4 lumens
Efficiency: N/A
Efficacy: 63.7 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

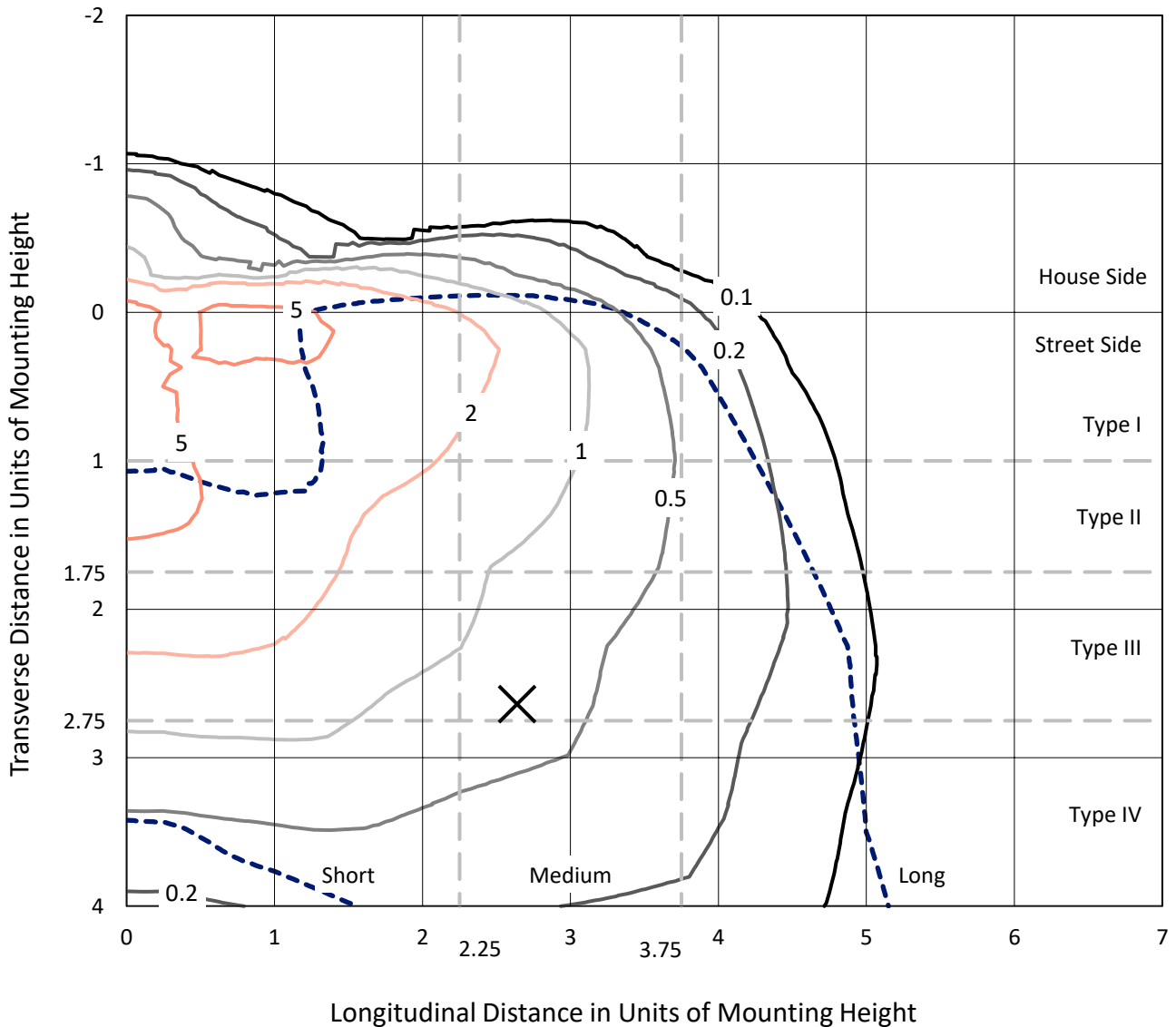
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

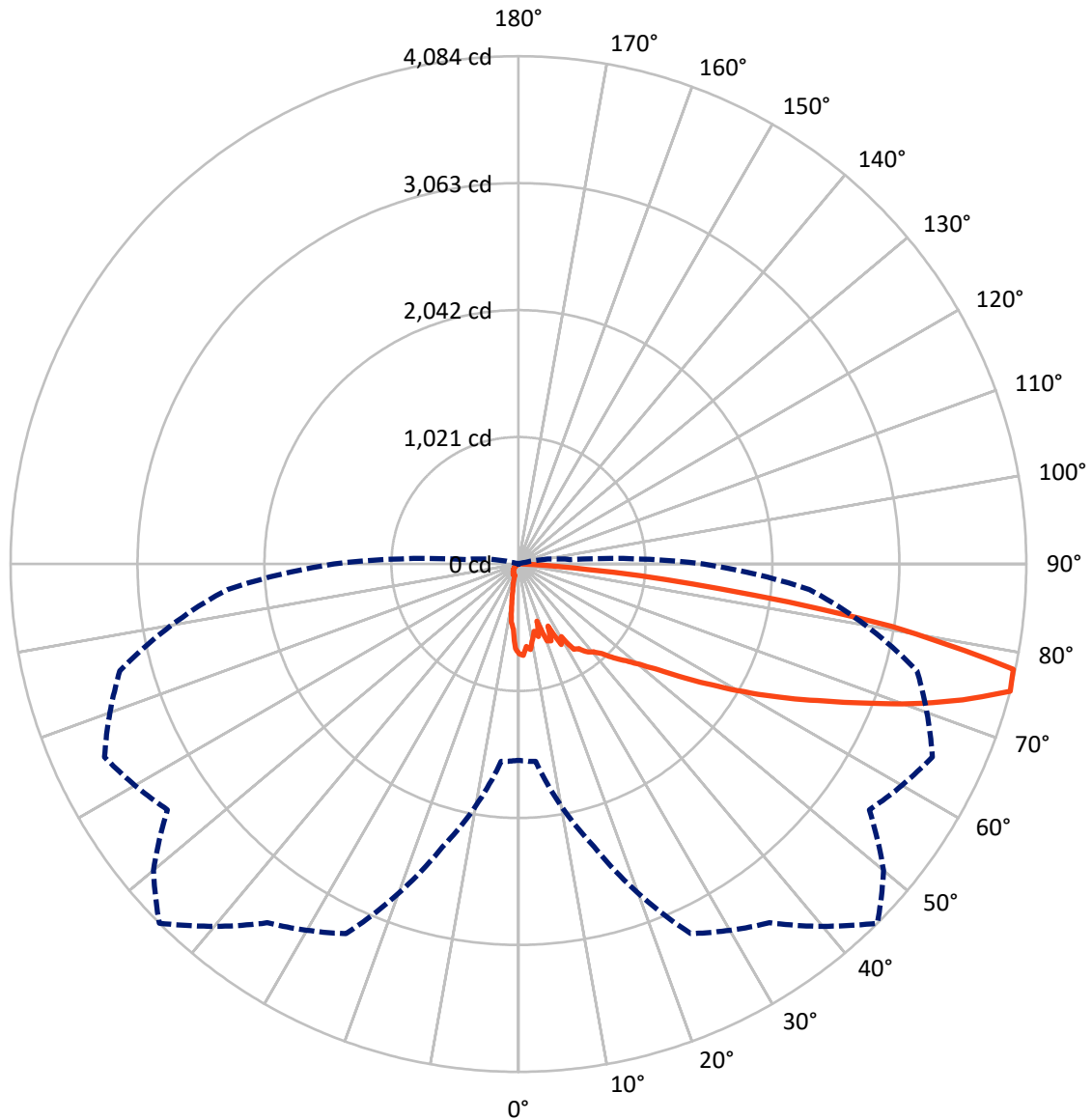
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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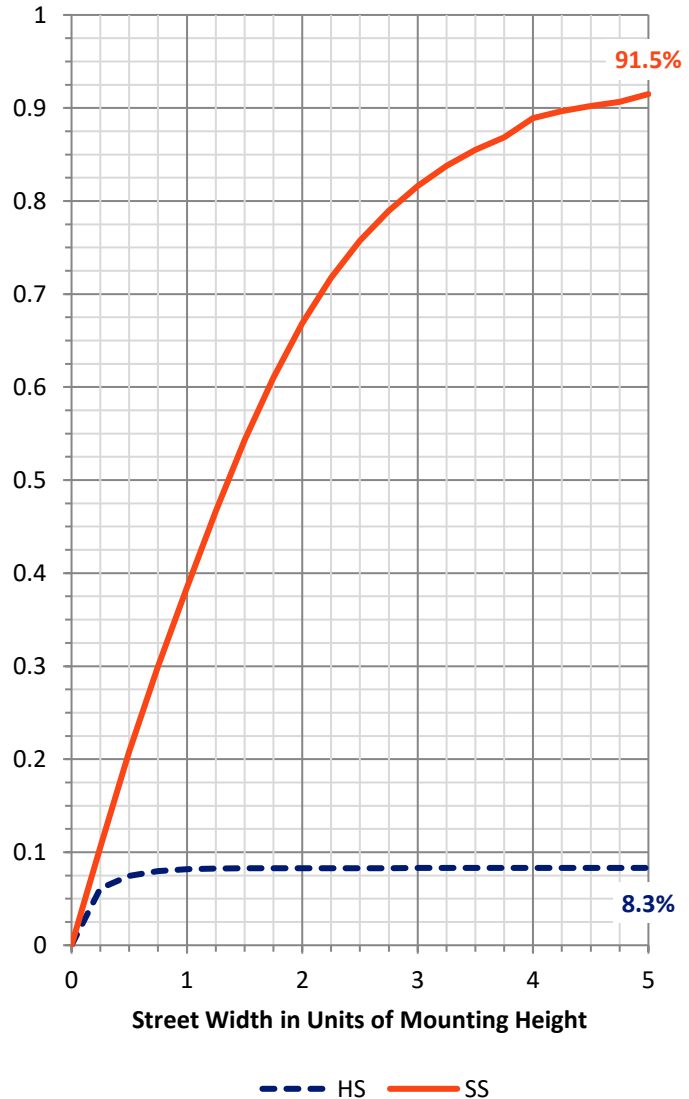
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.1	0.0	494.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5391.3	0.0	5391.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	5885.4	0.0	5885.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.0
10°-20°	123.2	2.1
20°-30°	208.3	3.5
30°-40°	383.6	6.5
40°-50°	629.5	10.7
50°-60°	1120.5	19.0
60°-70°	1676.5	28.5
70°-80°	1492.7	25.4
80°-90°	195.0	3.3
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°	5885.4	100.0
0°-180°	5885.4	100.0



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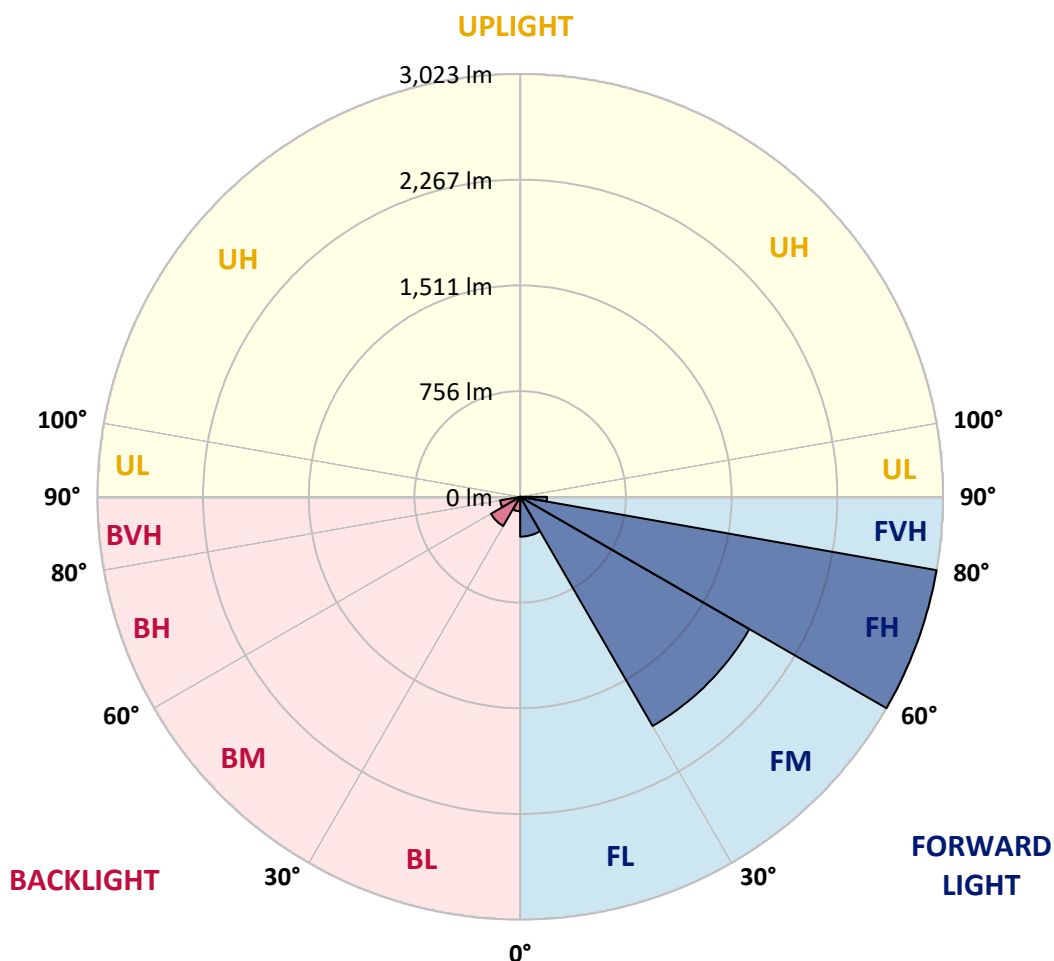
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.5	4.8			
FM (30°-60°)	1891.9	32.1			
FH (60°-80°)	3022.9	51.4			G2/5000
FVH (80°-90°)	192.0	3.3			G2/225
BL (0°-30°)	103.1	1.8	B0/110		
BM (30°-60°)	241.7	4.1	B1/1000		
BH (60°-80°)	146.3	2.5	B1/500		G1/500
BVH (80°-90°)	3.0	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6
2.5°	671.3	721.6	727.5	730.5	736.4	739.4	739.4	739.4	739.4	736.4	736.4
5°	709.8	706.8	703.9	700.9	698.0	692.1	686.1	677.3	671.3	665.4	659.5
7.5°	695.0	698.0	706.8	712.8	709.8	706.8	712.8	715.7	706.8	695.0	683.2
10°	810.4	804.4	798.5	792.6	783.7	774.9	703.9	632.9	627.0	618.1	612.2
12.5°	709.8	798.5	798.5	798.5	798.5	798.5	751.2	703.9	629.9	556.0	470.2
15°	887.2	884.3	872.5	860.6	780.8	698.0	653.6	609.2	609.2	606.3	570.8
17.5°	736.4	736.4	795.6	851.8	819.2	786.7	724.6	662.5	573.8	482.1	517.6
20°	931.6	931.6	919.8	907.9	771.9	635.9	641.8	647.7	653.6	659.5	547.1
22.5°	766.0	760.1	754.2	748.2	763.0	777.8	656.6	532.3	603.3	671.3	523.5
25°	934.6	943.4	937.5	928.6	807.4	686.1	712.8	736.4	644.7	553.0	641.8
27.5°	801.5	792.6	780.8	766.0	774.9	783.7	727.5	668.4	700.9	733.5	588.5
30°	981.9	984.8	978.9	973.0	857.7	742.3	739.4	733.5	706.8	677.3	662.5
32.5°	1215.5	1191.9	1109.1	1026.2	955.3	884.3	828.1	771.9	795.6	816.3	736.4
35°	1327.9	1283.5	1248.1	1209.6	1091.3	970.1	902.0	831.1	834.0	837.0	804.4
37.5°	1437.3	1372.3	1327.9	1283.5	1141.6	999.6	925.7	851.8	875.4	896.1	860.6
40°	1475.8	1440.3	1413.7	1387.1	1236.2	1082.4	996.7	907.9	919.8	928.6	916.8
42.5°	1573.4	1567.5	1552.7	1534.9	1354.5	1171.2	1067.7	964.1	976.0	984.8	978.9
45°	1807.0	1798.2	1798.2	1795.2	1561.6	1325.0	1188.9	1052.9	1064.7	1076.5	1070.6
47.5°	2108.7	2093.9	2076.2	2055.5	1807.0	1555.6	1360.4	1162.3	1162.3	1162.3	1171.2
50°	2425.1	2404.4	2366.0	2324.6	2073.2	1821.8	1573.4	1325.0	1298.3	1268.8	1301.3
52.5°	2753.4	2717.9	2652.9	2584.8	2363.0	2141.2	1860.3	1576.3	1496.5	1413.7	1455.1
55°	2930.9	2892.4	2848.1	2800.7	2620.3	2437.0	2150.1	1863.2	1739.0	1611.8	1656.2
57.5°	3075.8	3066.9	3046.2	3025.5	2886.5	2747.5	2460.6	2170.8	2002.2	1833.6	1872.1
60°	3273.9	3262.1	3271.0	3279.8	3173.4	3066.9	2794.8	2519.8	2303.9	2085.0	2073.2
62.5°	3421.8	3418.9	3463.2	3507.6	3451.4	3392.2	3087.6	2780.0	2570.1	2357.1	2298.0
65°	3285.8	3324.2	3489.8	3655.4	3646.6	3634.7	3350.8	3064.0	2856.9	2646.9	2570.1
67.5°	2998.9	3016.6	3262.1	3504.6	3611.1	3714.6	3513.5	3309.4	3146.8	2981.1	2839.2
70°	2729.8	2768.2	2984.1	3200.0	3475.0	3750.1	3590.4	3430.7	3398.1	3362.7	3179.3
72.5°	2469.5	2537.5	2738.6	2939.7	3306.5	3670.2	3575.6	3481.0	3608.1	3735.3	3516.4
75°	1579.3	1594.1	1975.6	2354.2	2818.5	3279.8	3401.1	3522.4	3803.3	4084.3	3832.9
77.5°	461.4	511.6	798.5	1085.4	1617.7	2147.1	2561.2	2975.2	3522.4	4069.5	3761.9
80°	156.7	168.6	210.0	248.4	532.3	816.3	1295.4	1771.5	2407.4	3043.3	2827.4
82.5°	76.9	79.9	100.6	118.3	180.4	242.5	488.0	730.5	1180.0	1626.6	1665.1
85°	23.7	23.7	35.5	47.3	76.9	106.5	183.4	257.3	408.1	556.0	470.2
87.5°	5.9	5.9	8.9	11.8	17.7	23.7	23.7	23.7	17.7	11.8	14.8
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°	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6
2.5°	739.4	739.4	739.4	736.4	730.5	727.5	721.6	715.7	709.8	706.8	700.9
5°	650.6	689.1	724.6	727.5	727.5	718.7	709.8	700.9	692.1	683.2	674.3
7.5°	668.4	647.7	627.0	629.9	632.9	629.9	624.0	609.2	597.4	573.8	547.1
10°	535.3	520.5	502.8	508.7	514.6	529.4	544.2	532.3	514.6	470.2	422.9
12.5°	526.4	523.5	517.6	473.2	425.9	449.5	470.2	458.4	440.7	396.3	349.0
15°	449.5	452.5	452.5	496.9	541.2	559.0	573.8	559.0	538.3	479.1	417.0
17.5°	579.7	550.1	520.5	502.8	482.1	488.0	493.9	428.8	449.5	411.1	369.7
20°	600.4	502.8	405.2	485.0	564.9	591.5	618.1	603.3	576.7	482.1	384.5
22.5°	547.1	582.6	618.1	567.8	517.6	485.0	449.5	434.8	417.0	375.6	334.2
25°	677.3	579.7	479.1	573.8	665.4	671.3	677.3	650.6	621.1	502.8	384.5
27.5°	606.3	638.8	668.4	689.1	709.8	736.4	763.0	733.5	662.5	523.5	381.5
30°	721.6	766.0	810.4	878.4	946.4	967.1	984.8	952.3	896.1	662.5	425.9
32.5°	754.2	842.9	931.6	958.2	981.9	1008.5	1035.1	1008.5	940.5	656.6	369.7
35°	842.9	905.0	964.1	1005.5	1046.9	1070.6	1094.3	1076.5	984.8	647.7	310.5
37.5°	869.5	952.3	1032.2	1079.5	1123.8	1144.5	1162.3	1162.3	1032.2	641.8	248.4
40°	910.9	1014.4	1117.9	1162.3	1203.7	1236.2	1265.8	1277.6	1085.4	638.8	189.3
42.5°	993.7	1085.4	1177.1	1248.1	1316.1	1363.4	1410.7	1419.6	1147.5	647.7	144.9
45°	1082.4	1180.0	1277.6	1372.3	1466.9	1534.9	1600.0	1594.1	1221.4	671.3	118.3
47.5°	1209.6	1301.3	1393.0	1552.7	1709.4	1774.5	1836.6	1795.2	1298.3	700.9	103.5
50°	1339.7	1452.1	1564.5	1768.6	1969.7	2028.8	2085.0	1999.3	1372.3	736.4	97.6
52.5°	1508.3	1641.4	1774.5	2008.1	2241.8	2295.0	2348.2	2173.8	1428.5	760.1	91.7
55°	1706.5	1878.0	2049.5	2271.3	2490.2	2552.3	2614.4	2345.3	1455.1	771.9	88.7
57.5°	1946.0	2144.2	2339.4	2543.4	2744.5	2830.3	2913.1	2513.9	1466.9	774.9	82.8
60°	2179.7	2398.5	2617.4	2791.9	2966.4	3099.4	3229.6	2679.5	1461.0	768.9	73.9
62.5°	2395.6	2638.1	2877.6	3040.3	3203.0	3362.7	3522.4	2812.6	1422.5	742.3	59.1
65°	2620.3	2877.6	3132.0	3273.9	3415.9	3622.9	3827.0	2927.9	1369.3	706.8	41.4
67.5°	2824.4	3069.9	3315.3	3475.0	3634.7	3838.8	4039.9	2957.5	1292.4	662.5	29.6
70°	2995.9	3262.1	3525.3	3688.0	3850.6	3954.2	4054.7	2827.4	1138.6	579.7	20.7
72.5°	3232.5	3472.1	3708.7	3791.5	3871.3	3690.9	3507.6	2357.1	854.7	437.7	17.7
75°	3445.5	3560.8	3673.2	3495.7	3318.3	2833.3	2348.2	1484.7	417.0	218.9	17.7
77.5°	3229.6	3167.5	3105.4	2561.2	2014.0	1496.5	976.0	582.6	130.1	71.0	11.8
80°	2339.4	2055.5	1768.6	1224.4	677.3	452.5	224.8	130.1	32.5	20.7	8.9
82.5°	1259.9	973.0	683.2	440.7	198.2	133.1	65.1	44.4	14.8	11.8	5.9
85°	455.5	360.8	263.2	204.1	144.9	85.8	23.7	14.8	8.9	8.9	5.9
87.5°	41.4	47.3	53.2	41.4	26.6	17.7	5.9	5.9	5.9	5.9	3.0
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°	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6	721.6
2.5°	698.0	695.0	692.1	686.1	683.2	680.2	659.5	638.8	615.2	591.5	591.5
5°	635.9	597.4	576.7	556.0	541.2	526.4	523.5	517.6	511.6	505.7	502.8
7.5°	532.3	517.6	505.7	493.9	479.1	464.3	449.5	434.8	422.9	411.1	384.5
10°	399.3	375.6	357.9	340.1	331.2	319.4	301.7	281.0	281.0	281.0	278.0
12.5°	346.0	343.1	298.7	251.4	236.6	221.8	218.9	215.9	210.0	201.1	189.3
15°	343.1	266.2	227.7	186.3	177.4	165.6	147.9	127.2	124.2	118.3	133.1
17.5°	310.5	251.4	207.0	162.7	130.1	97.6	103.5	106.5	121.3	133.1	142.0
20°	281.0	177.4	147.9	115.3	106.5	94.6	100.6	106.5	103.5	97.6	112.4
22.5°	263.2	189.3	139.0	88.7	94.6	100.6	94.6	85.8	100.6	115.3	124.2
25°	254.3	121.3	109.4	94.6	88.7	82.8	94.6	103.5	97.6	91.7	109.4
27.5°	251.4	121.3	103.5	82.8	88.7	94.6	91.7	85.8	97.6	106.5	103.5
30°	269.1	109.4	97.6	85.8	82.8	79.9	85.8	91.7	91.7	88.7	103.5
32.5°	239.6	109.4	97.6	82.8	82.8	79.9	79.9	79.9	88.7	97.6	103.5
35°	207.0	100.6	91.7	79.9	76.9	73.9	76.9	76.9	85.8	91.7	103.5
37.5°	171.5	94.6	85.8	73.9	71.0	68.0	68.0	65.1	73.9	82.8	91.7
40°	139.0	88.7	79.9	68.0	65.1	62.1	62.1	62.1	68.0	71.0	76.9
42.5°	115.3	82.8	73.9	62.1	59.1	56.2	56.2	53.2	56.2	59.1	62.1
45°	100.6	79.9	71.0	59.1	56.2	50.3	47.3	44.4	44.4	44.4	44.4
47.5°	88.7	73.9	68.0	59.1	53.2	44.4	41.4	35.5	32.5	29.6	26.6
50°	82.8	68.0	62.1	53.2	47.3	38.4	32.5	26.6	23.7	17.7	17.7
52.5°	76.9	62.1	56.2	47.3	38.4	29.6	23.7	14.8	14.8	11.8	11.8
55°	73.9	59.1	50.3	41.4	32.5	20.7	14.8	8.9	8.9	5.9	5.9
57.5°	71.0	56.2	47.3	35.5	23.7	11.8	8.9	5.9	5.9	5.9	5.9
60°	62.1	50.3	38.4	23.7	14.8	5.9	5.9	3.0	5.9	5.9	5.9
62.5°	50.3	38.4	26.6	14.8	8.9	3.0	3.0	3.0	5.9	5.9	5.9
65°	35.5	26.6	17.7	8.9	5.9	3.0	3.0	3.0	3.0	3.0	3.0
67.5°	26.6	20.7	14.8	5.9	5.9	3.0	3.0	3.0	3.0	3.0	3.0
70°	17.7	14.8	11.8	5.9	5.9	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	14.8	11.8	8.9	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0
75°	14.8	11.8	8.9	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0
77.5°	11.8	8.9	5.9	3.0	3.0	0.0	3.0	5.9	5.9	5.9	5.9
80°	8.9	5.9	5.9	3.0	3.0	0.0	3.0	5.9	5.9	5.9	5.9
82.5°	5.9	5.9	5.9	3.0	3.0	0.0	5.9	8.9	8.9	5.9	5.9
85°	5.9	3.0	3.0	3.0	3.0	3.0	5.9	8.9	8.9	8.9	5.9
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	5.9	8.9	8.9	8.9	5.9
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°	721.6	721.6	721.6	721.6
2.5°	588.5	588.5	585.6	585.6
5°	496.9	496.9	493.9	493.9
7.5°	357.9	351.9	343.1	346.0
10°	275.0	269.1	263.2	269.1
12.5°	177.4	180.4	180.4	171.5
15°	144.9	156.7	165.6	165.6
17.5°	150.8	150.8	147.9	147.9
20°	127.2	139.0	150.8	150.8
22.5°	130.1	124.2	118.3	118.3
25°	124.2	133.1	139.0	139.0
27.5°	100.6	103.5	106.5	106.5
30°	115.3	121.3	124.2	124.2
32.5°	109.4	115.3	118.3	121.3
35°	112.4	118.3	121.3	121.3
37.5°	100.6	103.5	106.5	106.5
40°	79.9	82.8	85.8	85.8
42.5°	62.1	62.1	59.1	62.1
45°	41.4	41.4	38.4	41.4
47.5°	23.7	23.7	23.7	23.7
50°	14.8	14.8	14.8	14.8
52.5°	8.9	8.9	8.9	8.9
55°	5.9	5.9	5.9	5.9
57.5°	5.9	5.9	3.0	3.0
60°	3.0	3.0	3.0	3.0
62.5°	3.0	3.0	0.0	0.0
65°	0.0	0.0	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°	0.0	0.0	0.0	0.0
75°	3.0	3.0	0.0	0.0
77.5°	3.0	3.0	0.0	0.0
80°	3.0	3.0	0.0	0.0
82.5°	3.0	3.0	0.0	0.0
85°	3.0	3.0	3.0	0.0
87.5°	3.0	3.0	3.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)