

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: P165521

Luminaire Tested: **VST-F08-LED-E-U-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165521
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F08-LED-E-U-SL4-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12127.2 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 204.4
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: 28.75 FT

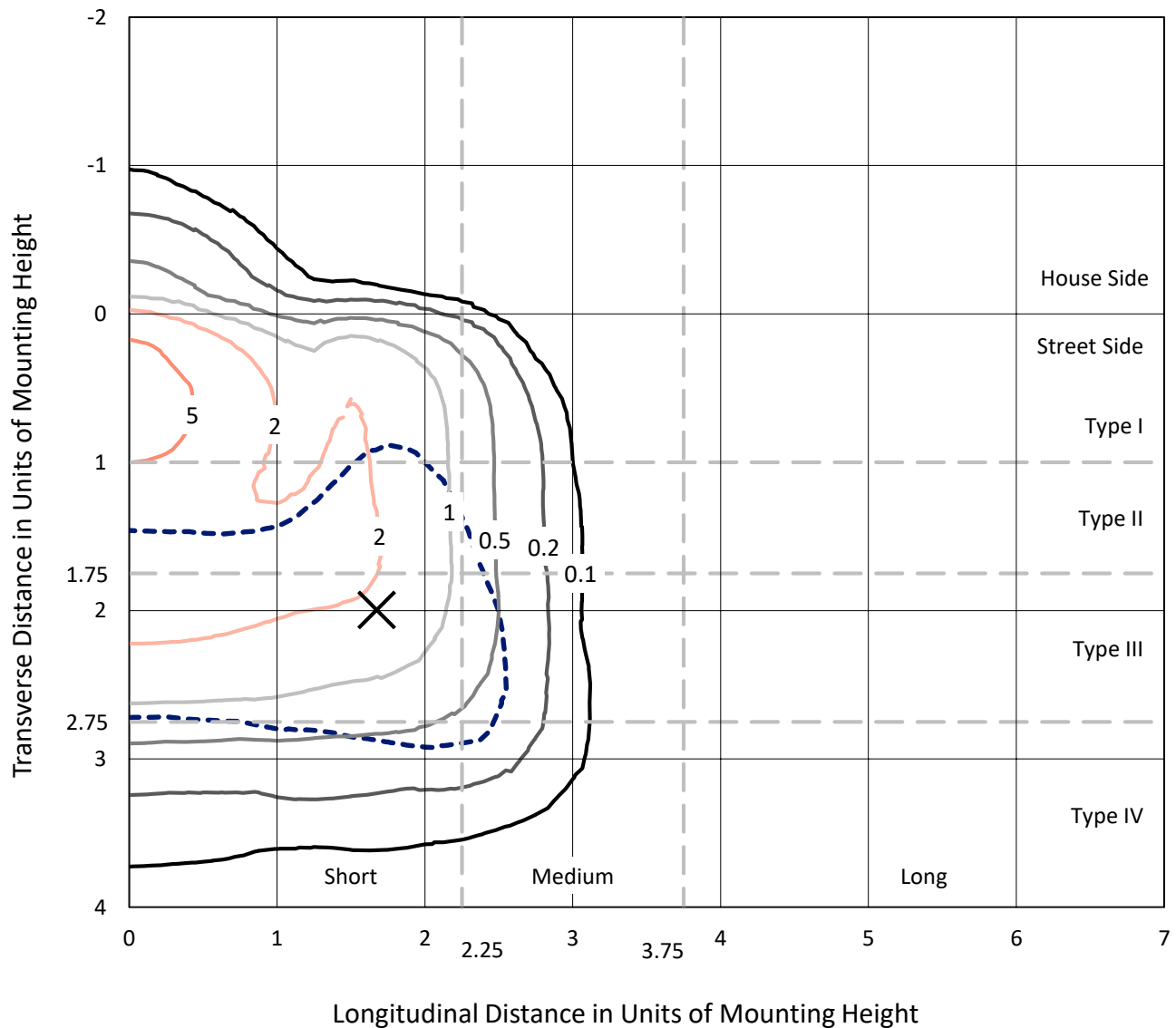


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

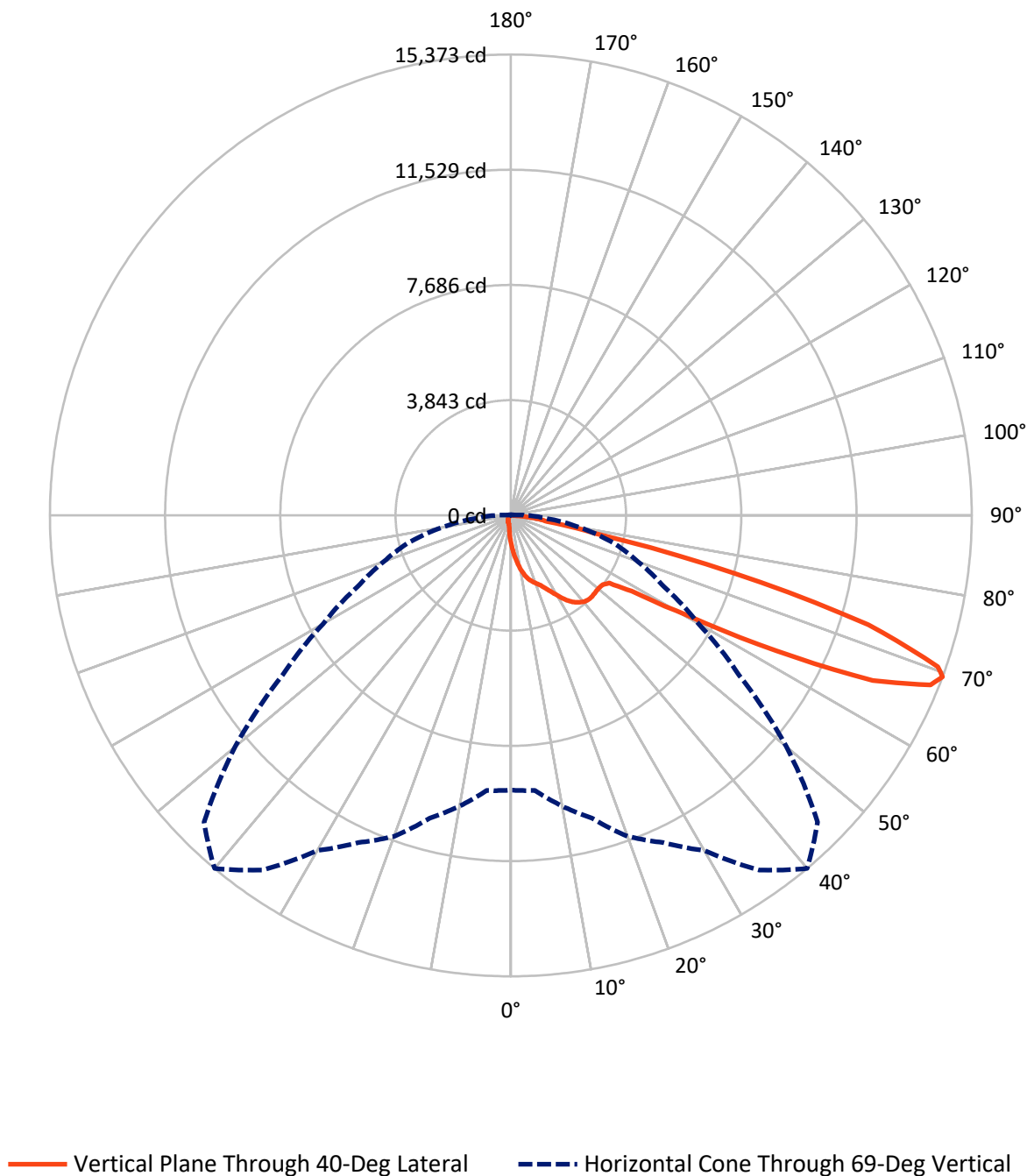


Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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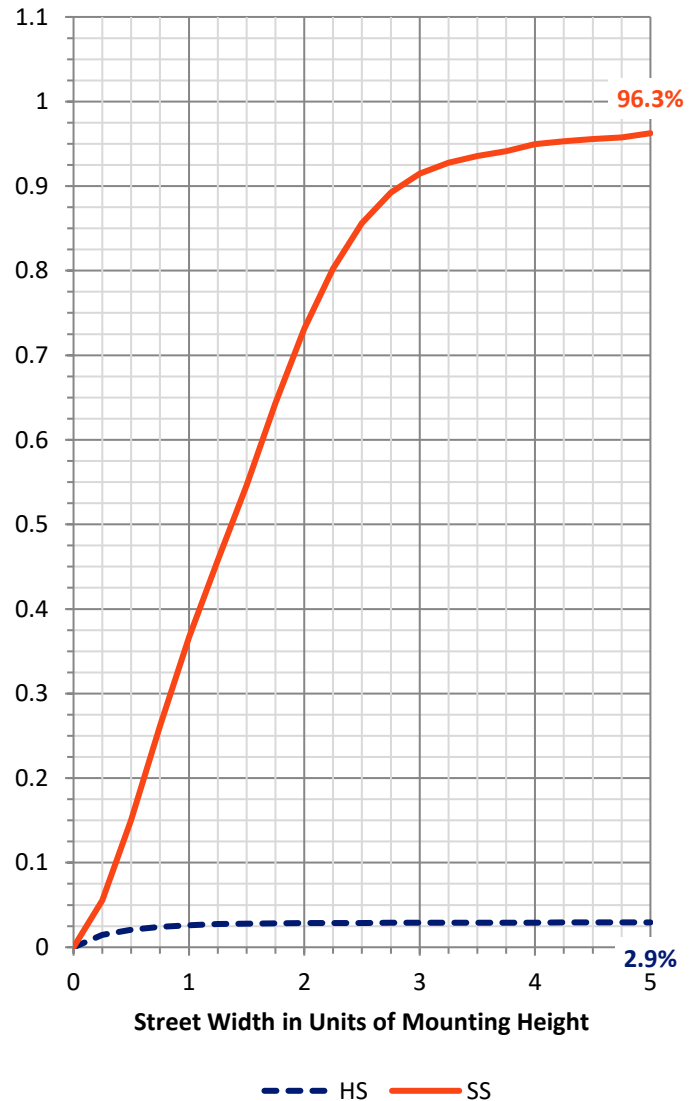
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	361.1	0.0	361.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	11766.0	0.0	11766.0
	% Fixture	97.0	0.0	97.0
Total	Lumens	12127.2	0.0	12127.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	0.8
10°-20°	324.6	2.7
20°-30°	621.2	5.1
30°-40°	1033.0	8.5
40°-50°	1397.8	11.5
50°-60°	2186.1	18.0
60°-70°	4494.5	37.1
70°-80°	1808.5	14.9
80°-90°	167.3	1.4
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°	12127.2	100.0
0°-180°	12127.2	100.0

Coefficient of Utilization



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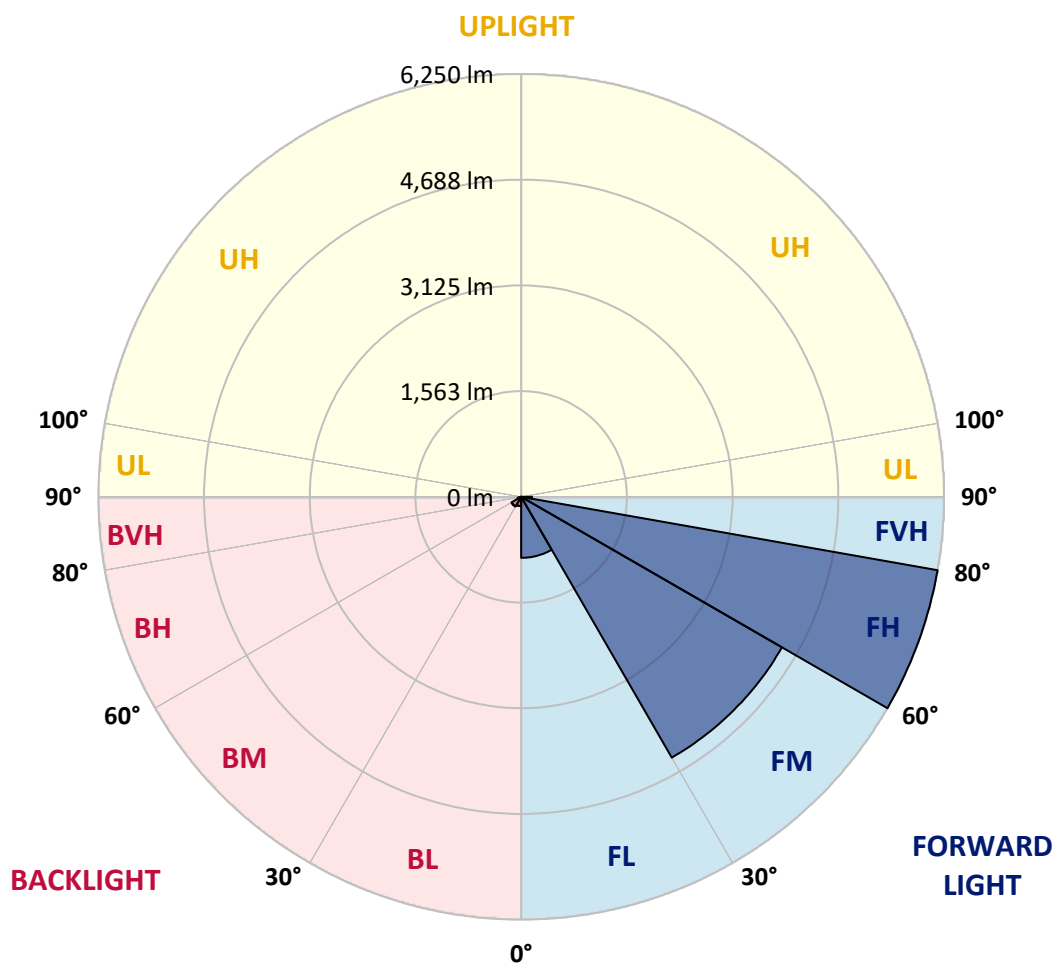
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	902.5	7.4			
FM	(30°-60°)	4452.1	36.7			
FH	(60°-80°)	6250.4	51.5			G3/7500
FVH	(80°-90°)	161.1	1.3			G2/225
BL	(0°-30°)	137.4	1.1	B1/500		
BM	(30°-60°)	164.9	1.4	B0/220		
BH	(60°-80°)	52.7	0.4	B0/110		G0/110
BVH	(80°-90°)	6.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	1221.8	1207.8	1191.9	1191.9	1172.1	1172.1	1160.2	1128.5	1124.5	1106.5	1088.6
5°	1559.5	1547.6	1527.8	1509.8	1494.0	1466.1	1446.2	1408.5	1366.8	1327.0	1291.3
7.5°	1889.3	1883.3	1847.6	1841.6	1815.7	1770.1	1730.3	1674.7	1603.2	1547.6	1482.0
10°	2195.3	2181.3	2173.3	2139.5	2101.9	2052.2	1990.5	1923.1	1839.6	1752.2	1658.8
12.5°	2437.6	2429.7	2393.8	2380.0	2340.3	2290.6	2213.1	2125.7	2042.3	1929.0	1819.7
15°	2618.3	2604.5	2580.6	2558.8	2511.1	2467.4	2395.9	2300.5	2199.2	2076.1	1944.9
17.5°	2769.4	2743.6	2737.5	2703.8	2654.2	2602.4	2523.0	2435.6	2316.4	2193.2	2050.1
20°	2971.9	2936.2	2924.3	2874.6	2817.0	2745.5	2654.2	2544.9	2419.7	2284.7	2137.6
22.5°	3210.3	3184.5	3158.7	3115.0	3041.5	2940.2	2807.1	2688.0	2529.0	2380.0	2221.1
25°	3548.1	3526.3	3484.5	3424.9	3333.5	3212.4	3051.4	2876.6	2689.9	2499.2	2312.4
27.5°	3875.9	3856.0	3826.2	3780.6	3677.2	3544.1	3345.4	3123.0	2886.5	2656.1	2449.5
30°	4183.9	4165.9	4136.1	4090.5	3999.1	3867.9	3643.4	3405.0	3111.0	2842.9	2594.6
32.5°	4515.6	4509.6	4475.8	4410.3	4330.8	4154.1	3909.7	3653.4	3355.5	3045.5	2755.4
35°	4891.1	4845.3	4813.6	4748.0	4613.0	4424.2	4138.2	3858.0	3544.1	3226.2	2902.5
37.5°	5208.9	5165.3	5125.5	5042.1	4877.2	4636.8	4313.0	4005.0	3681.2	3357.4	3027.6
40°	5441.3	5419.5	5371.8	5262.5	5077.8	4791.8	4442.0	4106.3	3780.6	3454.7	3128.9
42.5°	5614.2	5580.4	5526.8	5413.6	5195.1	4869.2	4493.7	4148.0	3826.2	3514.3	3194.5
45°	5677.8	5650.0	5600.3	5477.1	5240.7	4891.1	4491.8	4136.1	3828.2	3532.2	3238.2
47.5°	5640.0	5612.2	5568.5	5453.2	5220.9	4865.2	4456.0	4102.3	3808.3	3538.2	3277.9
50°	5514.9	5499.0	5465.2	5367.8	5159.2	4815.5	4424.2	4084.5	3804.3	3568.0	3333.5
52.5°	5502.9	5493.1	5451.3	5354.0	5141.4	4799.6	4420.2	4094.5	3838.1	3605.8	3373.3
55°	6724.7	6583.6	6267.8	5999.6	5558.6	5034.1	4620.8	4255.3	3981.2	3754.8	3591.8
57.5°	9557.6	9347.1	8931.9	8421.3	7408.1	6412.8	5616.2	5040.1	4755.9	4652.7	4714.2
60°	10884.6	10847.0	10781.4	10539.0	10020.5	9164.3	8210.7	7179.7	6766.4	6730.7	6855.8
62.5°	11514.5	11490.6	11510.5	11480.7	11319.8	11069.5	10795.3	10350.3	9941.0	9676.8	9116.6
65°	11804.5	11820.4	11933.6	12023.0	12042.9	12108.4	12309.2	12863.4	13268.6	12587.2	11031.7
67.5°	11067.4	11160.8	11421.1	11746.9	12128.3	12497.8	13093.8	14261.9	15094.3	14293.8	12084.6
69°	9162.3	9208.0	9843.7	10457.6	11389.3	12041.0	12905.1	14436.7	15372.5	14468.6	12001.2
70°	7213.4	7255.1	7936.6	8770.9	10346.4	11184.7	12315.1	14140.8	15112.2	14236.1	11572.1
72.5°	3254.1	3194.5	3434.8	3881.8	5594.3	6925.4	8902.1	11456.8	12468.0	11405.2	8657.7
75°	2272.7	2246.9	2272.7	2274.6	2540.9	3277.9	4136.1	6210.1	7680.2	6627.4	4136.1
77.5°	1760.1	1742.3	1724.4	1704.5	1736.4	1944.9	2028.3	2203.1	2860.7	2705.8	1577.4
80°	1392.7	1376.7	1420.4	1406.5	1406.5	1430.4	1414.5	1348.9	1225.7	1136.3	1017.1
82.5°	647.6	651.6	651.6	707.2	852.3	995.3	1041.0	975.5	866.2	737.0	594.0
85°	61.5	69.5	117.3	180.8	359.6	405.2	407.3	337.7	337.7	266.3	214.5
87.5°	0.0	1.9	1.9	1.9	17.9	49.7	41.7	11.9	5.9	5.9	9.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	1056.9	1050.9	1027.1	1003.2	981.4	957.5	935.7	913.8	890.0	872.1	850.3
5°	1235.7	1191.9	1142.3	1094.7	1046.9	997.3	945.7	900.0	852.3	808.5	766.8
7.5°	1416.4	1331.0	1263.5	1178.0	1100.6	1023.1	951.6	878.1	810.6	747.0	687.4
10°	1569.4	1466.1	1360.8	1251.6	1140.3	1037.0	937.7	850.3	760.9	683.4	610.0
12.5°	1694.6	1563.5	1434.4	1297.2	1172.1	1041.0	917.8	812.5	707.2	619.8	544.3
15°	1807.8	1656.9	1501.8	1343.0	1184.1	1035.1	897.9	766.8	659.5	560.2	474.8
17.5°	1899.2	1726.3	1551.5	1372.8	1201.9	1027.1	872.1	735.1	610.0	506.6	423.2
20°	1978.7	1797.9	1609.2	1408.5	1213.9	1025.1	850.3	695.4	566.2	457.0	375.4
22.5°	2052.2	1871.4	1668.8	1454.2	1231.7	1023.1	830.4	665.6	528.4	419.2	337.7
25°	2135.7	1944.9	1732.4	1501.8	1263.5	1031.1	818.5	641.7	494.6	383.4	307.9
27.5°	2229.0	2028.3	1807.8	1561.4	1305.2	1046.9	814.6	615.9	464.8	349.6	284.1
30°	2360.1	2127.7	1883.3	1621.0	1343.0	1064.9	810.6	599.9	435.0	323.8	260.2
32.5°	2475.4	2225.1	1966.8	1682.7	1384.7	1082.7	808.5	578.1	407.3	298.0	242.4
35°	2596.5	2314.5	2038.3	1742.3	1420.4	1102.5	806.6	562.2	381.5	272.2	224.5
37.5°	2701.8	2389.9	2093.9	1793.9	1460.2	1120.5	808.5	548.3	357.6	250.3	208.6
40°	2791.2	2467.4	2155.5	1841.6	1501.8	1148.2	810.6	534.4	333.8	230.4	194.7
42.5°	2870.7	2540.9	2221.1	1895.2	1549.6	1180.1	822.5	522.5	313.9	212.6	180.8
45°	2932.3	2608.5	2292.5	1970.8	1627.1	1231.7	844.4	514.5	294.0	196.6	168.9
47.5°	2995.8	2707.7	2413.7	2089.9	1740.3	1313.2	882.1	512.6	278.1	184.7	158.9
50°	3083.3	2807.1	2521.0	2211.1	1843.6	1396.6	927.7	514.5	258.3	172.9	149.0
52.5°	3146.9	2908.4	2660.1	2421.7	2089.9	1650.8	1104.6	550.2	248.3	162.9	137.0
55°	3522.3	3480.6	3486.5	3526.3	3270.0	2809.1	1847.6	794.6	292.1	184.7	135.1
57.5°	4966.6	5113.5	5198.9	5197.0	4773.8	3959.4	2481.3	1021.1	325.8	214.5	160.9
60°	6865.8	6754.6	6597.6	6210.1	5648.0	4519.6	2775.3	1098.7	282.1	170.8	147.1
62.5°	8544.5	7892.8	7314.7	6687.0	5949.9	4714.2	2834.9	1092.6	246.3	129.1	103.3
65°	9591.4	8419.3	7485.6	6698.8	5830.7	4551.3	2681.9	1003.2	208.6	105.3	85.4
67.5°	9841.7	8135.2	6814.2	5810.8	4871.2	3542.2	1968.7	755.0	162.9	87.5	75.5
69°	9295.4	7231.3	5646.0	4507.7	3544.1	2350.2	1217.9	476.8	125.1	79.5	69.5
70°	8550.4	6289.6	4599.0	3617.6	2624.4	1650.8	852.3	335.7	101.3	73.5	63.6
72.5°	5501.0	3303.7	2260.8	1573.4	1082.7	657.6	333.8	151.0	77.5	61.5	51.6
75°	2133.6	1221.8	886.1	673.4	526.5	365.5	202.7	97.4	65.5	51.6	39.7
77.5°	1050.9	804.5	657.6	450.9	262.3	162.9	109.3	75.5	53.7	37.8	25.8
80°	830.4	552.3	329.8	204.6	154.9	117.3	83.5	61.5	39.7	23.9	17.9
82.5°	425.1	232.5	170.8	139.1	115.2	91.4	67.6	43.7	25.8	15.9	13.9
85°	133.1	97.4	87.5	85.4	79.5	65.5	47.7	27.9	15.9	9.9	9.9
87.5°	9.9	13.9	17.9	13.9	15.9	13.9	17.9	11.9	8.0	8.0	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	834.3	810.6	788.7	774.7	748.9	739.0	729.1	725.2	707.2	711.2	695.4
5°	729.1	687.4	655.6	623.8	594.0	572.2	554.2	532.4	514.5	506.6	490.6
7.5°	633.7	580.2	538.4	504.6	468.8	441.1	417.2	401.2	385.4	369.5	361.6
10°	550.2	492.7	445.0	411.3	377.5	353.6	335.7	323.8	313.9	307.9	305.9
12.5°	472.8	417.2	373.5	343.7	317.9	305.9	298.0	292.1	290.0	288.1	288.1
15°	413.2	357.6	323.8	302.0	290.0	284.1	282.1	278.1	274.2	272.2	272.2
17.5°	357.6	315.8	292.1	280.1	274.2	270.2	266.3	262.3	258.3	256.2	256.2
20°	319.8	286.0	274.2	266.3	260.2	256.2	250.3	246.3	244.4	242.4	240.4
22.5°	290.0	268.2	260.2	254.3	246.3	240.4	236.5	232.5	228.5	226.4	224.5
25°	268.2	254.3	248.3	240.4	232.5	226.4	220.5	214.5	210.6	208.6	204.6
27.5°	252.3	242.4	234.4	224.5	216.5	210.6	204.6	198.7	194.7	190.7	188.7
30°	238.4	228.5	218.5	210.6	200.6	194.7	186.7	180.8	178.8	174.8	170.8
32.5°	224.5	214.5	204.6	194.7	184.7	176.9	172.9	164.9	160.9	158.9	154.9
35°	208.6	198.7	186.7	178.8	168.9	160.9	154.9	149.0	145.0	141.0	139.1
37.5°	194.7	182.8	170.8	160.9	153.0	145.0	139.1	133.1	129.1	125.1	123.2
40°	178.8	166.8	154.9	145.0	137.0	131.1	125.1	119.2	115.2	113.3	113.3
42.5°	164.9	151.0	139.1	131.1	125.1	117.3	111.2	105.3	103.3	101.3	103.3
45°	151.0	137.0	127.2	119.2	113.3	105.3	99.3	95.3	93.4	95.3	97.4
47.5°	139.1	125.1	115.2	109.3	103.3	97.4	91.4	87.5	87.5	91.4	95.3
50°	127.2	113.3	105.3	101.3	95.3	89.4	81.4	79.5	81.4	85.4	89.4
52.5°	115.2	99.3	93.4	91.4	85.4	79.5	73.5	71.5	73.5	77.5	75.5
55°	103.3	87.5	85.4	83.5	77.5	69.5	63.6	63.6	63.6	61.5	57.7
57.5°	99.3	77.5	75.5	73.5	67.6	59.6	55.6	51.6	49.7	43.7	41.7
60°	103.3	69.5	69.5	65.5	59.6	51.6	45.7	39.7	35.7	31.7	31.7
62.5°	83.5	63.6	61.5	57.7	49.7	41.7	35.7	29.8	27.9	25.8	25.8
65°	67.6	57.7	53.7	47.7	41.7	33.8	27.9	23.9	21.8	21.8	23.9
67.5°	61.5	51.6	45.7	39.7	33.8	25.8	21.8	19.9	19.9	21.8	21.8
69°	57.7	47.7	41.7	35.7	29.8	23.9	19.9	19.9	19.9	19.9	21.8
70°	53.7	45.7	39.7	33.8	25.8	19.9	17.9	17.9	19.9	19.9	21.8
72.5°	41.7	35.7	33.8	27.9	19.9	17.9	15.9	17.9	17.9	19.9	19.9
75°	31.7	25.8	25.8	21.8	15.9	13.9	13.9	15.9	15.9	17.9	17.9
77.5°	21.8	17.9	17.9	15.9	13.9	11.9	11.9	13.9	15.9	15.9	17.9
80°	15.9	13.9	11.9	13.9	11.9	9.9	11.9	13.9	13.9	15.9	15.9
82.5°	11.9	11.9	11.9	11.9	9.9	9.9	11.9	11.9	13.9	15.9	15.9
85°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	11.9	11.9	13.9	13.9
87.5°	5.9	5.9	5.9	8.0	8.0	9.9	9.9	9.9	9.9	11.9	11.9
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°	915.9	915.9	915.9	915.9
2.5°	691.4	689.3	681.4	683.4
5°	484.7	472.8	480.7	478.8
7.5°	355.6	353.6	351.7	355.6
10°	304.0	304.0	302.0	304.0
12.5°	286.0	286.0	286.0	286.0
15°	272.2	272.2	270.2	270.2
17.5°	256.2	256.2	256.2	254.3
20°	240.4	238.4	238.4	238.4
22.5°	222.5	220.5	220.5	220.5
25°	204.6	202.7	202.7	202.7
27.5°	186.7	184.7	182.8	182.8
30°	168.9	166.8	164.9	164.9
32.5°	151.0	149.0	147.1	147.1
35°	135.1	135.1	133.1	131.1
37.5°	121.2	121.2	121.2	121.2
40°	111.2	113.3	113.3	113.3
42.5°	105.3	107.2	109.3	111.2
45°	101.3	105.3	107.2	107.2
47.5°	99.3	101.3	103.3	103.3
50°	91.4	89.4	89.4	89.4
52.5°	73.5	69.5	67.6	65.5
55°	53.7	51.6	47.7	47.7
57.5°	37.8	37.8	35.7	35.7
60°	29.8	29.8	27.9	29.8
62.5°	25.8	25.8	25.8	25.8
65°	23.9	23.9	23.9	23.9
67.5°	23.9	23.9	23.9	23.9
69°	21.8	21.8	21.8	21.8
70°	21.8	21.8	21.8	21.8
72.5°	19.9	19.9	19.9	19.9
75°	17.9	19.9	19.9	19.9
77.5°	17.9	17.9	17.9	17.9
80°	15.9	15.9	17.9	17.9
82.5°	15.9	15.9	15.9	15.9
85°	13.9	13.9	15.9	15.9
87.5°	11.9	11.9	13.9	13.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)