

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: P165516

Luminaire Tested: **VST-E08-LED-E-U-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165516
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-E08-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: (168) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14690.3 lumens
Efficiency: N/A
Efficacy: 75.5 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 - G4

Input Watts (W): 194.5
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

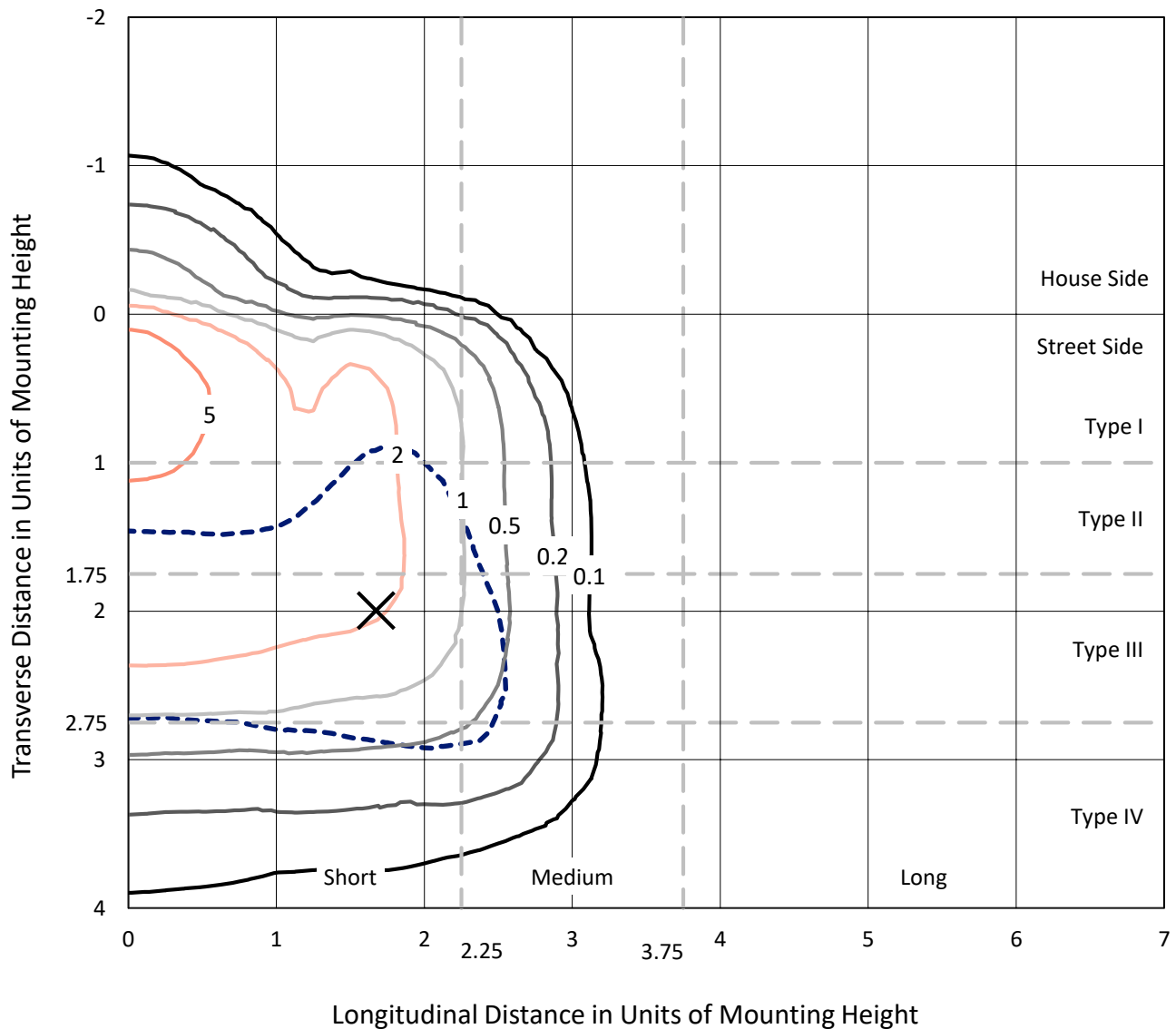


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

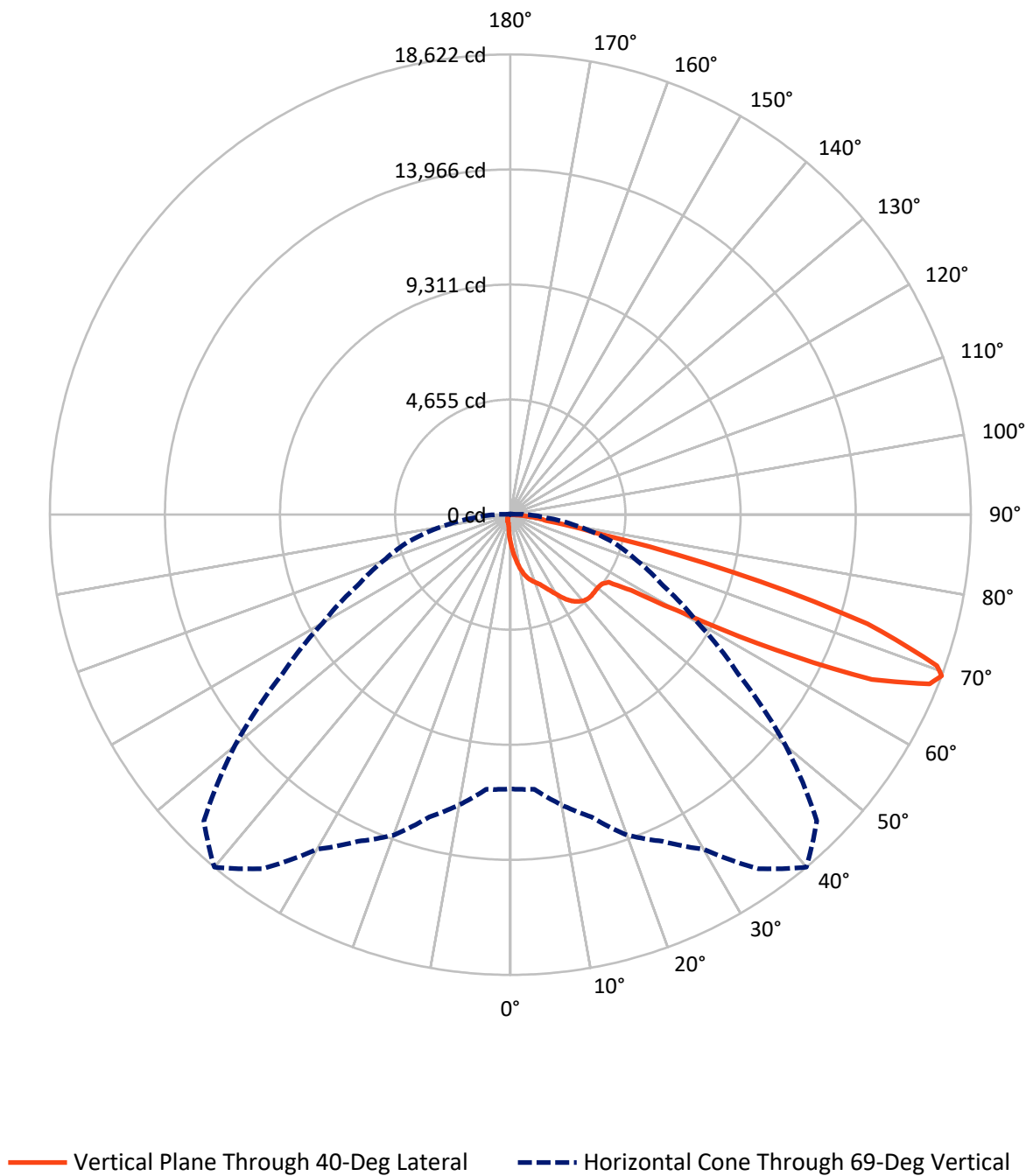


Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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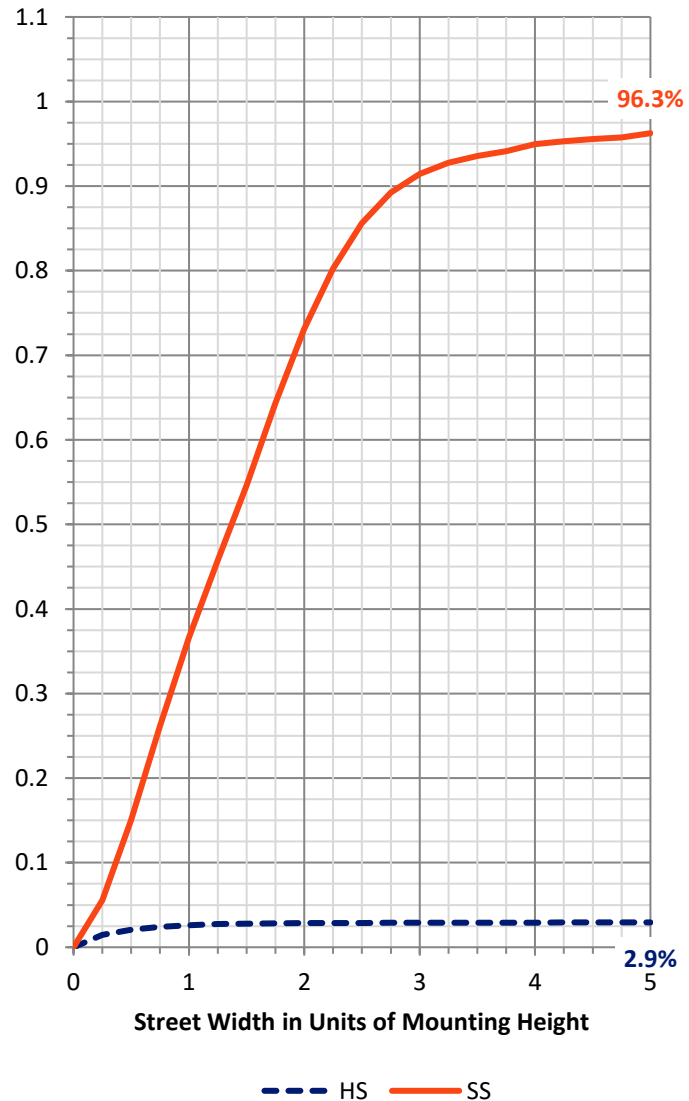
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	437.5	0.0	437.5
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	14252.8	0.0	14252.8
	% Fixture	97.0	0.0	97.0
Total	Lumens	14690.3	0.0	14690.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	0.8
10°-20°	393.1	2.7
20°-30°	752.4	5.1
30°-40°	1251.4	8.5
40°-50°	1693.3	11.5
50°-60°	2648.1	18.0
60°-70°	5444.5	37.1
70°-80°	2190.8	14.9
80°-90°	202.6	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°	14690.3	100.0
0°-180°	14690.3	100.0

Coefficient of Utilization



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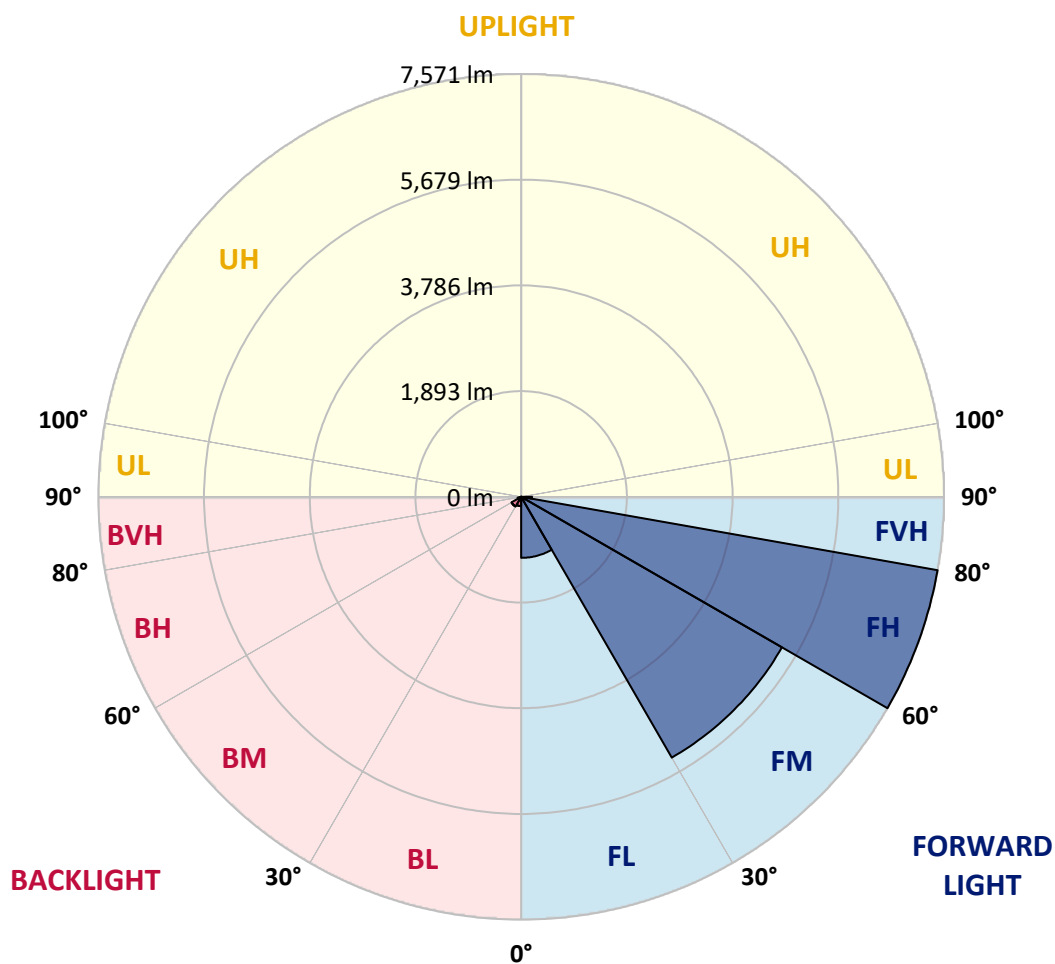
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1093.2	7.4			
FM	(30°-60°)	5393.0	36.7			
FH	(60°-80°)	7571.4	51.5			G4/12000
FVH	(80°-90°)	195.1	1.3			G2/225
BL	(0°-30°)	166.4	1.1	B1/500		
BM	(30°-60°)	199.7	1.4	B0/220		
BH	(60°-80°)	63.8	0.4	B0/110		G0/110
BVH	(80°-90°)	7.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1480.1	1463.1	1443.8	1443.8	1419.9	1419.9	1405.4	1367.0	1362.1	1340.4	1318.7
5°	1889.1	1874.6	1850.7	1828.9	1809.7	1776.0	1751.9	1706.1	1655.7	1607.5	1564.2
7.5°	2288.6	2281.3	2238.1	2230.8	2199.5	2144.3	2096.0	2028.7	1942.0	1874.6	1795.3
10°	2659.2	2642.3	2632.6	2591.7	2546.1	2485.9	2411.2	2329.6	2228.4	2122.5	2009.4
12.5°	2952.8	2943.2	2899.8	2883.0	2834.9	2774.7	2680.9	2574.9	2473.9	2336.7	2204.3
15°	3171.7	3154.9	3126.0	3099.5	3041.8	2988.9	2902.3	2786.7	2664.1	2514.9	2356.0
17.5°	3354.7	3323.4	3316.1	3275.2	3215.1	3152.4	3056.3	2950.3	2806.0	2656.8	2483.4
20°	3600.1	3556.8	3542.3	3482.1	3412.4	3325.8	3215.1	3082.7	2931.1	2767.5	2589.4
22.5°	3888.8	3857.6	3826.3	3773.4	3684.4	3561.6	3400.4	3256.1	3063.5	2883.0	2690.5
25°	4298.0	4271.6	4221.0	4148.8	4038.0	3891.3	3696.4	3484.6	3258.4	3027.4	2801.1
27.5°	4695.1	4670.9	4634.9	4579.6	4454.4	4293.2	4052.5	3783.0	3496.6	3217.5	2967.1
30°	5068.1	5046.4	5010.3	4955.0	4844.3	4685.4	4413.5	4124.7	3768.6	3443.7	3142.9
32.5°	5470.0	5462.7	5421.8	5342.4	5246.1	5032.0	4736.0	4425.6	4064.6	3689.2	3337.7
35°	5924.8	5869.4	5831.0	5751.5	5588.0	5359.2	5012.8	4673.4	4293.2	3908.1	3515.9
37.5°	6309.9	6257.0	6208.7	6107.8	5908.0	5616.7	5224.5	4851.4	4459.2	4067.0	3667.4
40°	6591.3	6564.9	6507.1	6374.7	6151.0	5804.5	5380.9	4974.2	4579.6	4184.9	3790.2
42.5°	6800.7	6759.8	6694.9	6557.7	6293.1	5898.3	5443.4	5024.7	4634.9	4257.1	3869.7
45°	6877.7	6844.1	6783.9	6634.7	6348.3	5924.8	5441.1	5010.3	4637.3	4278.7	3922.6
47.5°	6832.0	6798.4	6745.3	6605.8	6324.3	5893.5	5397.8	4969.4	4613.2	4286.0	3970.7
50°	6680.5	6661.2	6620.3	6502.3	6249.7	5833.3	5359.2	4947.7	4608.4	4322.1	4038.0
52.5°	6666.0	6654.0	6603.4	6485.5	6228.0	5814.0	5354.4	4959.9	4649.3	4367.9	4086.3
55°	8145.9	7975.1	7592.5	7267.6	6733.4	6098.1	5597.4	5154.7	4822.6	4548.3	4350.9
57.5°	11577.6	11322.6	10819.6	10201.2	8973.8	7768.2	6803.2	6105.3	5761.1	5636.0	5710.6
60°	13185.1	13139.5	13060.0	12766.4	12138.4	11101.2	9946.0	8697.1	8196.5	8153.2	8304.8
62.5°	13948.1	13919.2	13943.3	13907.2	13712.2	13409.0	13076.8	12537.9	12042.0	11722.0	11043.4
65°	14299.4	14318.7	14455.8	14564.1	14588.2	14667.5	14910.7	15582.0	16072.9	15247.5	13363.3
67.5°	13406.5	13519.6	13835.0	14229.6	14691.6	15139.3	15861.2	17276.2	18284.5	17314.8	14638.7
69°	11098.7	11154.1	11924.1	12667.8	13796.4	14585.8	15632.6	17488.0	18621.5	17526.5	14537.6
70°	8737.9	8788.5	9614.0	10624.7	12533.1	13548.6	14917.9	17129.5	18306.2	17244.9	14017.8
72.5°	3941.9	3869.7	4160.8	4702.2	6776.6	8389.1	10783.5	13878.2	15103.2	13815.7	10487.5
75°	2753.1	2721.8	2753.1	2755.4	3077.9	3970.7	5010.3	7522.6	9303.5	8028.1	5010.3
77.5°	2132.1	2110.5	2088.9	2064.8	2103.3	2356.0	2457.0	2668.7	3465.3	3277.7	1910.7
80°	1687.0	1667.7	1720.6	1703.8	1703.8	1732.7	1713.4	1633.9	1484.7	1376.5	1232.1
82.5°	784.5	789.3	789.3	856.6	1032.5	1205.6	1261.0	1181.7	1049.3	892.7	719.6
85°	74.5	84.2	142.0	219.1	435.6	490.9	493.4	409.0	409.0	322.5	259.8
87.5°	0.0	2.3	2.3	2.3	21.6	60.2	50.6	14.5	7.2	7.2	12.0
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°	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1280.3	1273.0	1244.2	1215.3	1188.8	1159.9	1133.4	1107.0	1078.0	1056.4	1030.0
5°	1496.9	1443.8	1383.8	1326.0	1268.2	1208.1	1145.6	1090.2	1032.5	979.4	928.8
7.5°	1715.8	1612.3	1530.5	1427.0	1333.2	1239.4	1152.7	1063.7	981.9	904.9	832.7
10°	1901.1	1776.0	1648.4	1516.2	1381.3	1256.2	1135.9	1030.0	921.7	827.9	738.9
12.5°	2052.8	1893.9	1737.6	1571.4	1419.9	1261.0	1111.8	984.2	856.6	750.8	659.4
15°	2189.8	2007.0	1819.2	1626.8	1434.3	1253.8	1087.7	928.8	798.9	678.7	575.2
17.5°	2300.6	2091.2	1879.5	1662.9	1456.0	1244.2	1056.4	890.4	738.9	613.6	512.6
20°	2396.9	2177.9	1949.3	1706.1	1470.4	1241.7	1030.0	842.3	685.8	553.6	454.8
22.5°	2485.9	2266.9	2021.5	1761.5	1492.0	1239.4	1005.9	806.2	640.1	507.8	409.0
25°	2587.0	2356.0	2098.5	1819.2	1530.5	1249.0	991.5	777.3	599.2	464.4	372.9
27.5°	2700.2	2457.0	2189.8	1891.4	1581.0	1268.2	986.7	746.0	563.1	423.5	344.2
30°	2858.9	2577.4	2281.3	1963.6	1626.8	1289.9	981.9	726.7	527.0	392.2	315.2
32.5°	2998.6	2695.3	2382.5	2038.3	1677.3	1311.6	979.4	700.3	493.4	361.0	293.6
35°	3145.3	2803.6	2469.1	2110.5	1720.6	1335.5	977.1	681.0	462.1	329.7	272.0
37.5°	3272.9	2895.0	2536.5	2173.0	1768.8	1357.3	979.4	664.2	433.1	303.2	252.7
40°	3381.1	2988.9	2611.0	2230.8	1819.2	1390.9	981.9	647.4	404.4	279.1	235.9
42.5°	3477.5	3077.9	2690.5	2295.8	1877.1	1429.5	996.4	632.9	380.2	257.5	219.1
45°	3552.0	3159.8	2777.0	2387.3	1970.9	1492.0	1022.8	623.3	356.1	238.2	204.6
47.5°	3629.0	3280.0	2923.9	2531.7	2108.2	1590.7	1068.5	620.9	336.8	223.7	192.5
50°	3734.9	3400.4	3053.8	2678.4	2233.3	1691.8	1123.8	623.3	312.9	209.4	180.5
52.5°	3812.0	3523.0	3222.3	2933.5	2531.7	1999.7	1338.0	666.5	300.7	197.3	166.0
55°	4266.7	4216.2	4223.3	4271.6	3961.2	3402.8	2238.1	962.6	353.8	223.7	163.7
57.5°	6016.3	6194.3	6297.7	6295.4	5782.7	4796.2	3005.7	1236.9	394.7	259.8	194.9
60°	8316.9	8182.2	7992.0	7522.6	6841.7	5474.8	3361.9	1330.9	341.7	206.9	178.1
62.5°	10350.4	9561.0	8860.7	8100.3	7207.4	5710.6	3434.1	1323.6	298.4	156.4	125.1
65°	11618.5	10198.7	9067.7	8114.6	7063.0	5513.3	3248.8	1215.3	252.7	127.6	103.5
67.5°	11921.8	9854.5	8254.3	7038.9	5900.7	4290.8	2384.8	914.5	197.3	105.9	91.5
69°	11259.9	8759.7	6839.3	5460.4	4293.2	2846.9	1475.2	577.5	151.5	96.3	84.2
70°	10357.5	7618.9	5571.0	4382.2	3179.0	1999.7	1032.5	406.7	122.8	89.0	77.0
72.5°	6663.7	4001.9	2738.6	1905.9	1311.6	796.6	404.4	183.0	93.8	74.5	62.5
75°	2584.6	1480.1	1073.4	815.7	637.7	442.8	245.5	117.9	79.4	62.5	48.1
77.5°	1273.0	974.6	796.6	546.3	317.7	197.3	132.4	91.5	65.0	45.7	31.3
80°	1005.9	669.0	399.5	247.8	187.6	142.0	101.1	74.5	48.1	28.9	21.6
82.5°	515.0	281.6	206.9	168.5	139.6	110.8	81.8	52.9	31.3	19.3	16.8
85°	161.2	117.9	105.9	103.5	96.3	79.4	57.7	33.8	19.3	12.0	12.0
87.5°	12.0	16.8	21.6	16.8	19.3	16.8	21.6	14.5	9.6	9.6	7.2
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°	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1010.7	981.9	955.4	938.5	907.2	895.2	883.2	878.4	856.6	861.5	842.3
5°	883.2	832.7	794.1	755.7	719.6	693.1	671.3	644.9	623.3	613.6	594.3
7.5°	767.7	702.8	652.2	611.3	567.9	534.3	505.3	486.0	466.9	447.6	438.0
10°	666.5	596.8	539.1	498.2	457.3	428.3	406.7	392.2	380.2	372.9	370.6
12.5°	572.7	505.3	452.4	416.3	385.1	370.6	361.0	353.8	351.3	349.0	349.0
15°	500.5	433.1	392.2	365.8	351.3	344.2	341.7	336.8	332.2	329.7	329.7
17.5°	433.1	382.6	353.8	339.3	332.2	327.3	322.5	317.7	312.9	310.4	310.4
20°	387.4	346.5	332.2	322.5	315.2	310.4	303.2	298.4	296.1	293.6	291.2
22.5°	351.3	324.9	315.2	308.1	298.4	291.2	286.4	281.6	276.8	274.3	272.0
25°	324.9	308.1	300.7	291.2	281.6	274.3	267.1	259.8	255.2	252.7	247.8
27.5°	305.6	293.6	283.9	272.0	262.3	255.2	247.8	240.7	235.9	231.0	228.6
30°	288.8	276.8	264.7	255.2	243.0	235.9	226.2	219.1	216.6	211.8	206.9
32.5°	272.0	259.8	247.8	235.9	223.7	214.2	209.4	199.8	194.9	192.5	187.6
35°	252.7	240.7	226.2	216.6	204.6	194.9	187.6	180.5	175.7	170.8	168.5
37.5°	235.9	221.4	206.9	194.9	185.3	175.7	168.5	161.2	156.4	151.5	149.2
40°	216.6	202.1	187.6	175.7	166.0	158.8	151.5	144.4	139.6	137.2	137.2
42.5°	199.8	183.0	168.5	158.8	151.5	142.0	134.7	127.6	125.1	122.8	125.1
45°	183.0	166.0	154.0	144.4	137.2	127.6	120.3	115.4	113.1	115.4	117.9
47.5°	168.5	151.5	139.6	132.4	125.1	117.9	110.8	105.9	105.9	110.8	115.4
50°	154.0	137.2	127.6	122.8	115.4	108.3	98.6	96.3	98.6	103.5	108.3
52.5°	139.6	120.3	113.1	110.8	103.5	96.3	89.0	86.7	89.0	93.8	91.5
55°	125.1	105.9	103.5	101.1	93.8	84.2	77.0	77.0	77.0	74.5	69.9
57.5°	120.3	93.8	91.5	89.0	81.8	72.2	67.4	62.5	60.2	52.9	50.6
60°	125.1	84.2	84.2	79.4	72.2	62.5	55.4	48.1	43.3	38.4	38.4
62.5°	101.1	77.0	74.5	69.9	60.2	50.6	43.3	36.1	33.8	31.3	31.3
65°	81.8	69.9	65.0	57.7	50.6	40.9	33.8	28.9	26.5	26.5	28.9
67.5°	74.5	62.5	55.4	48.1	40.9	31.3	26.5	24.1	24.1	26.5	26.5
69°	69.9	57.7	50.6	43.3	36.1	28.9	24.1	24.1	24.1	24.1	26.5
70°	65.0	55.4	48.1	40.9	31.3	24.1	21.6	21.6	24.1	24.1	26.5
72.5°	50.6	43.3	40.9	33.8	24.1	21.6	19.3	21.6	21.6	24.1	24.1
75°	38.4	31.3	31.3	26.5	19.3	16.8	16.8	19.3	19.3	21.6	21.6
77.5°	26.5	21.6	21.6	19.3	16.8	14.5	14.5	16.8	19.3	19.3	21.6
80°	19.3	16.8	14.5	16.8	14.5	12.0	14.5	16.8	16.8	19.3	19.3
82.5°	14.5	14.5	14.5	14.5	12.0	12.0	14.5	14.5	16.8	19.3	19.3
85°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	14.5	14.5	16.8	16.8
87.5°	7.2	7.2	7.2	9.6	9.6	12.0	12.0	12.0	12.0	14.5	14.5
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°	1109.5	1109.5	1109.5	1109.5
2.5°	837.5	835.0	825.4	827.9
5°	587.2	572.7	582.4	580.0
7.5°	430.8	428.3	426.0	430.8
10°	368.3	368.3	365.8	368.3
12.5°	346.5	346.5	346.5	346.5
15°	329.7	329.7	327.3	327.3
17.5°	310.4	310.4	310.4	308.1
20°	291.2	288.8	288.8	288.8
22.5°	269.5	267.1	267.1	267.1
25°	247.8	245.5	245.5	245.5
27.5°	226.2	223.7	221.4	221.4
30°	204.6	202.1	199.8	199.8
32.5°	183.0	180.5	178.1	178.1
35°	163.7	163.7	161.2	158.8
37.5°	146.9	146.9	146.9	146.9
40°	134.7	137.2	137.2	137.2
42.5°	127.6	129.9	132.4	134.7
45°	122.8	127.6	129.9	129.9
47.5°	120.3	122.8	125.1	125.1
50°	110.8	108.3	108.3	108.3
52.5°	89.0	84.2	81.8	79.4
55°	65.0	62.5	57.7	57.7
57.5°	45.7	45.7	43.3	43.3
60°	36.1	36.1	33.8	36.1
62.5°	31.3	31.3	31.3	31.3
65°	28.9	28.9	28.9	28.9
67.5°	28.9	28.9	28.9	28.9
69°	26.5	26.5	26.5	26.5
70°	26.5	26.5	26.5	26.5
72.5°	24.1	24.1	24.1	24.1
75°	21.6	24.1	24.1	24.1
77.5°	21.6	21.6	21.6	21.6
80°	19.3	19.3	21.6	21.6
82.5°	19.3	19.3	19.3	19.3
85°	16.8	16.8	19.3	19.3
87.5°	14.5	14.5	16.8	16.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)