

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: P165325

Luminaire Tested: **VST-E11-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165325
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E11-LED-E-U-SL3-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (231) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15904.3 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.83' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

Input Watts (W): 269.7
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

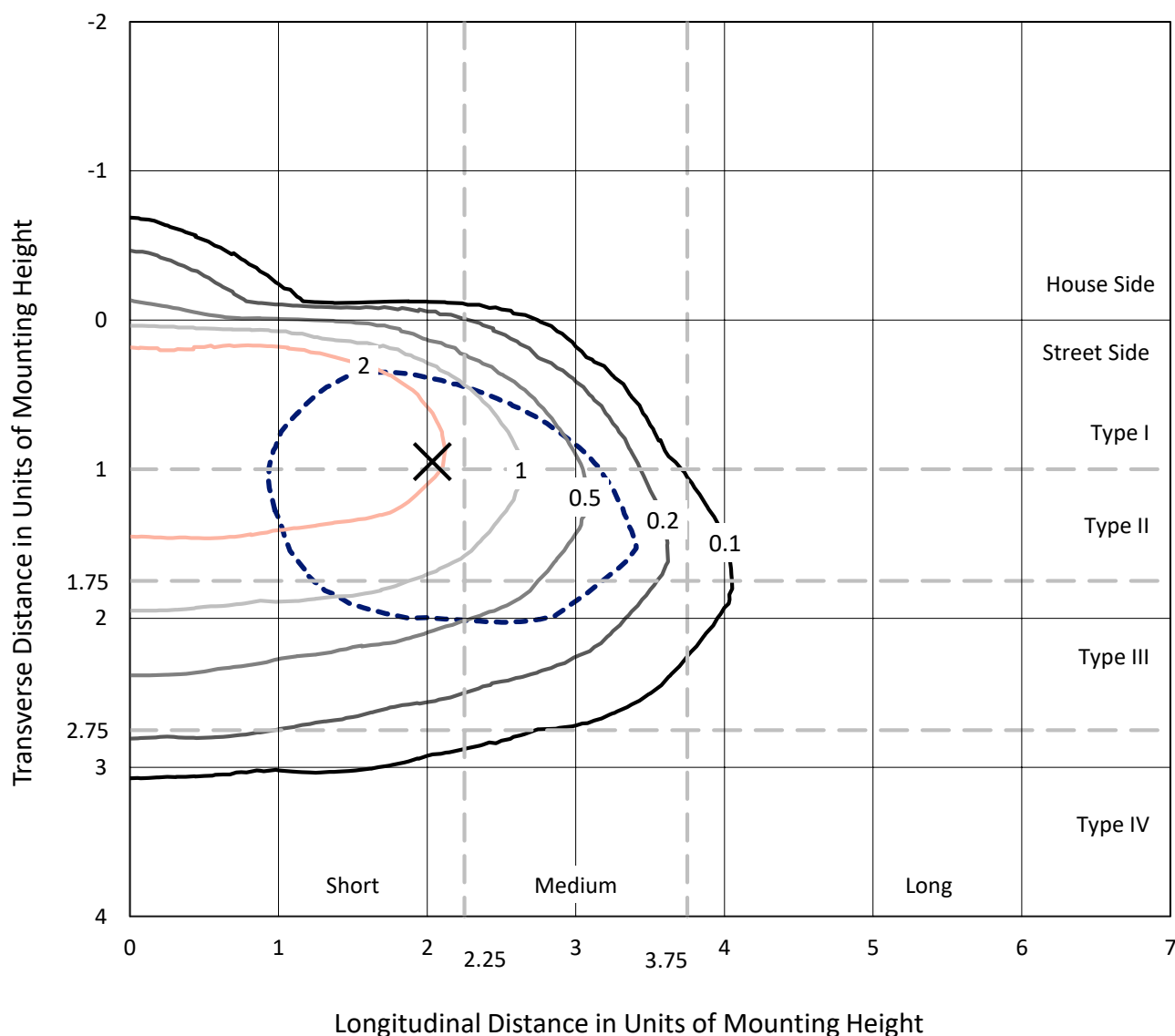


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

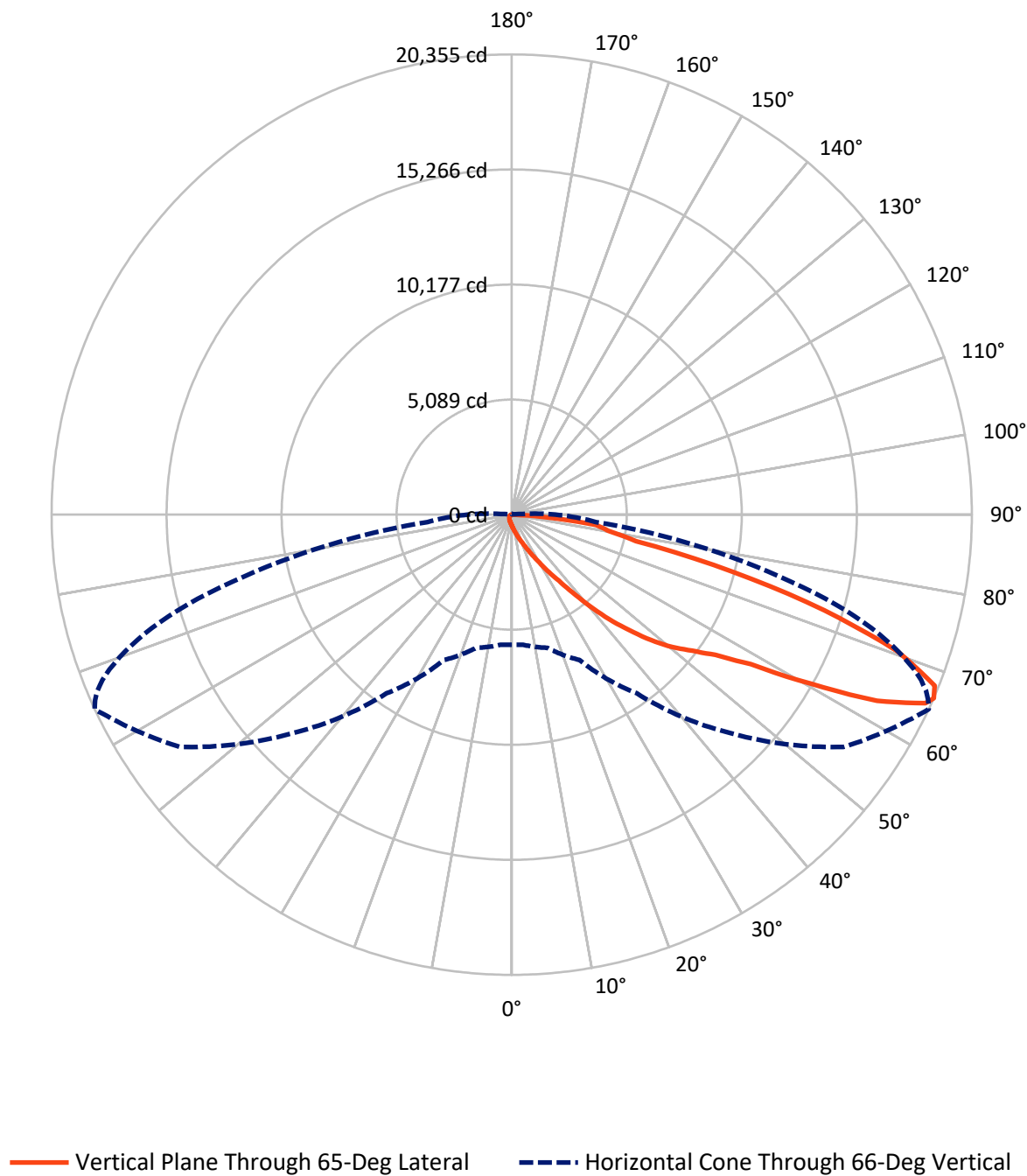


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	344.7	0.0	344.7
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	15559.6	0.0	15559.6
	% Fixture	97.8	0.0	97.8
Total	Lumens	15904.3	0.0	15904.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	0.3
10°-20°	227.9	1.4
20°-30°	491.5	3.1
30°-40°	1049.5	6.6
40°-50°	2321.0	14.6
50°-60°	3933.4	24.7
60°-70°	5248.8	33.0
70°-80°	2312.0	14.5
80°-90°	266.3	1.7
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°	15904.3	100.0
0°-180°	15904.3	100.0

Coefficient of Utilization



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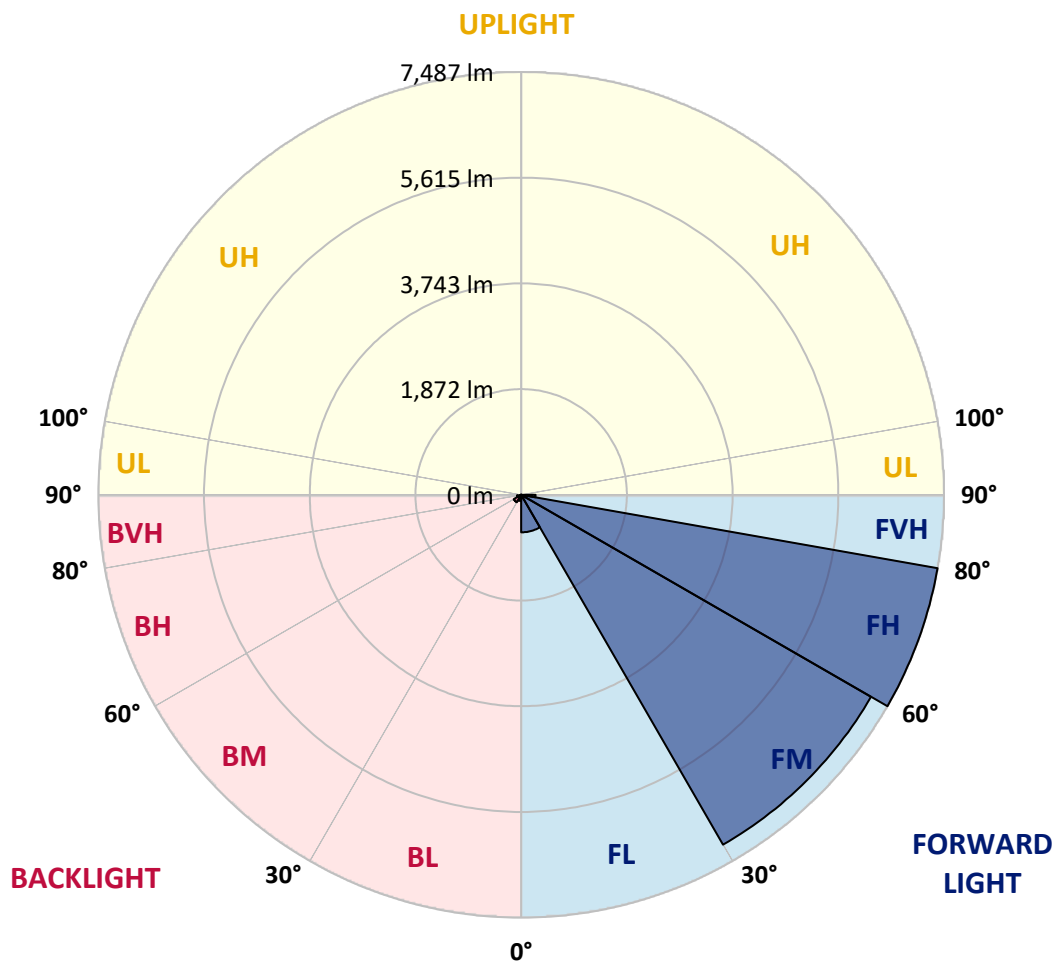
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.3	4.2			
FM	(30°-60°)	7152.6	45.0			
FH	(60°-80°)	7486.9	47.1			G3/7500
FVH	(80°-90°)	255.7	1.6			G3/500
BL	(0°-30°)	108.7	0.7	B0/110		
BM	(30°-60°)	151.4	1.0	B0/220		
BH	(60°-80°)	73.9	0.5	B0/110		G0/110
BVH	(80°-90°)	10.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	605.5	602.3	590.1	590.1	571.7	559.6	544.2	529.0	529.0	525.8	522.9
5°	801.0	782.8	779.7	746.1	718.6	678.8	642.1	593.2	587.1	581.0	577.8
7.5°	1018.3	1015.1	987.6	947.9	892.9	819.4	746.1	666.6	654.3	648.2	635.9
10°	1299.6	1284.1	1247.6	1180.2	1097.7	999.9	880.7	755.2	739.9	727.7	721.5
12.5°	1568.6	1541.1	1519.6	1434.0	1330.0	1186.3	1042.6	862.3	850.0	834.8	810.3
15°	1819.3	1794.8	1758.2	1684.8	1568.6	1388.1	1220.1	999.9	969.2	947.9	929.5
17.5°	2015.0	1999.8	1956.9	1874.4	1748.9	1590.0	1388.1	1140.4	1116.1	1088.4	1054.8
20°	2201.6	2180.0	2112.8	1999.8	1865.1	1742.8	1587.0	1323.9	1290.3	1256.7	1220.1
22.5°	2378.9	2357.4	2247.4	2060.8	1917.1	1865.1	1810.2	1531.8	1479.9	1452.4	1415.6
25°	2626.6	2580.7	2409.4	2112.8	1920.3	1960.0	2054.7	1800.9	1752.1	1712.3	1654.2
27.5°	2959.9	2898.6	2629.6	2189.3	1932.4	2064.0	2336.0	2128.1	2076.1	2030.2	1966.1
30°	3335.9	3296.2	2975.1	2372.8	2021.1	2216.8	2650.9	2544.0	2482.9	2427.7	2351.4
32.5°	3715.0	3660.1	3342.0	2721.3	2259.5	2513.3	3045.5	3027.1	2947.6	2895.6	2813.0
35°	4048.3	4020.9	3785.4	3293.0	2803.9	3033.2	3571.3	3592.7	3522.5	3467.4	3375.6
37.5°	4274.7	4274.7	4228.8	3907.6	3669.2	3840.4	4344.9	4348.0	4277.6	4152.3	4106.5
40°	4390.7	4424.3	4589.6	4650.7	4638.4	4858.6	5360.2	5305.0	5246.9	5182.6	5029.8
42.5°	4629.3	4659.8	5011.4	5433.5	5708.7	5999.1	6344.6	6326.2	6256.0	6139.8	5999.1
45°	5033.0	5072.7	5491.6	6161.2	6726.7	7139.7	7359.7	7274.1	7203.7	7093.8	7020.3
47.5°	5546.6	5623.1	6096.9	6925.6	7607.4	8289.2	8518.5	8292.4	8231.3	8145.5	8026.3
50°	6094.0	6167.3	6671.8	7619.7	8390.2	9203.5	9585.8	9203.5	9114.9	9087.3	8952.8
52.5°	6567.8	6629.1	7115.2	8154.8	8989.4	9943.4	10499.9	9995.4	9931.2	9839.4	9741.6
55°	6849.1	6898.1	7353.6	8411.6	9396.2	10610.0	11383.7	10940.3	10845.5	10808.9	10668.1
57.5°	6944.0	6992.8	7402.6	8445.2	9616.3	11218.5	12457.0	12472.2	12359.1	12227.6	12184.7
60°	6944.0	6998.9	7344.5	8362.8	9830.4	11866.7	13887.8	15162.8	14918.3	14893.8	14737.8
62.5°	6656.6	6708.5	7057.1	8108.9	10117.8	12741.2	15881.4	18131.8	18061.6	17902.5	17645.7
65°	6032.7	6063.3	6405.7	7460.7	10007.7	13545.4	17609.0	20107.1	19994.0	19682.1	19351.9
66°	5751.4	5775.9	6096.9	7090.7	9646.9	13655.5	17914.8	20354.8	20168.3	19905.2	19532.2
67.5°	5344.7	5387.6	5613.8	6402.7	8781.6	13273.2	17722.2	20180.6	20018.5	19700.4	19327.4
70°	3568.4	3537.7	4335.8	4913.6	6690.2	10815.0	15899.8	18119.6	18122.7	17972.9	17823.0
72.5°	1693.9	1712.3	1944.6	3024.0	4378.5	7225.3	12655.6	14462.6	14670.6	14401.6	14215.0
75°	1216.9	1244.4	1385.2	1849.9	2611.2	4335.8	8203.6	10114.6	10120.8	9643.7	9218.9
77.5°	354.6	370.1	519.7	1140.4	1956.9	2926.1	4711.8	5623.1	5491.6	5149.0	4828.0
80°	146.7	146.7	152.8	363.9	785.8	1987.5	3296.2	4329.6	4314.4	4183.0	3993.4
82.5°	55.0	58.1	73.3	149.8	186.6	489.3	2198.4	3757.9	3748.7	3562.2	3427.6
85°	6.1	6.1	18.4	64.2	70.4	91.7	440.2	1657.2	1648.1	1657.2	1452.4
87.5°	0.0	0.0	3.0	6.1	9.1	12.3	18.4	64.2	70.4	67.2	61.1
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	522.9	516.7	516.7	513.8	513.8	513.8	510.6	507.6	507.6	504.5	501.5
5°	571.7	565.6	562.6	556.5	553.5	550.3	544.2	541.3	535.1	532.0	529.0
7.5°	629.8	617.6	614.6	605.5	596.2	590.1	584.0	574.9	568.7	556.5	553.5
10°	703.3	687.9	675.7	663.4	654.3	639.1	629.8	617.6	605.5	596.2	587.1
12.5°	798.0	776.7	758.3	746.1	724.7	706.3	687.9	678.8	654.3	642.1	626.8
15°	902.0	877.5	856.2	831.7	816.4	785.8	761.3	733.8	721.5	700.2	675.7
17.5°	1036.5	996.7	963.1	938.8	908.2	877.5	850.0	822.6	785.8	761.3	730.8
20°	1180.2	1146.6	1100.7	1058.0	1021.2	984.7	944.7	908.2	874.5	834.8	798.0
22.5°	1363.8	1314.8	1259.8	1216.9	1168.1	1128.4	1073.2	1024.4	969.2	917.2	874.5
25°	1596.1	1531.8	1479.9	1418.8	1360.6	1299.6	1232.2	1171.1	1100.7	1051.9	978.5
27.5°	1883.5	1822.4	1752.1	1672.6	1614.5	1522.7	1434.0	1357.7	1275.1	1198.6	1116.1
30°	2250.4	2161.8	2088.3	2012.0	1895.8	1807.0	1703.0	1599.2	1486.0	1409.7	1284.1
32.5°	2690.7	2596.0	2485.9	2375.8	2268.8	2143.5	2015.0	1886.5	1761.2	1620.6	1492.1
35°	3228.9	3115.7	2990.3	2871.1	2706.1	2571.5	2409.4	2232.0	2091.5	1929.4	1767.3
37.5°	3941.4	3754.8	3644.7	3519.3	3296.2	3112.7	2932.2	2754.9	2507.2	2336.0	2106.7
40°	4834.1	4724.0	4543.7	4341.9	4140.1	3898.5	3654.0	3418.5	3131.1	2892.5	2626.6
42.5°	5882.8	5720.9	5537.5	5246.9	5042.1	4757.6	4479.5	4167.5	3815.9	3510.2	3198.3
45°	6867.5	6674.9	6534.2	6243.8	6029.7	5693.3	5357.0	5026.9	4620.0	4225.7	3864.9
47.5°	7931.6	7772.5	7540.2	7304.8	7087.7	6708.5	6344.6	5944.1	5515.9	5048.2	4580.3
50°	8867.2	8741.9	8582.8	8298.5	8056.9	7738.9	7310.9	6873.6	6332.4	5867.6	5335.6
52.5°	9662.1	9564.3	9341.1	9139.3	8922.2	8622.5	8240.4	7821.5	7237.5	6726.7	6121.4
55°	10600.9	10530.5	10334.8	10209.5	10017.0	9729.5	9371.7	8983.5	8365.7	7809.2	7124.3
57.5°	12138.9	12083.9	11912.5	11860.6	11671.0	11420.3	10980.1	10564.2	9842.6	9151.5	8368.9
60°	14685.8	14575.9	14325.1	14196.8	13796.1	13459.8	12888.1	12316.2	11444.8	10564.2	9622.4
62.5°	17413.3	17104.5	16627.5	16217.9	15649.1	15065.0	14300.5	13426.2	12405.0	11359.2	10276.7
65°	18884.0	18358.2	17755.8	17104.5	16367.7	15508.4	14545.3	13496.6	12398.8	11295.0	10151.4
66°	19052.2	18459.0	17820.1	17095.4	16276.0	15361.7	14383.2	13282.5	12141.9	11065.7	9922.1
67.5°	18841.3	18220.6	17544.9	16740.7	15853.9	14906.0	13878.7	12735.1	11637.4	10545.8	9432.8
70°	17364.4	16746.7	16144.3	15297.5	14352.5	13398.7	12426.3	11148.3	10108.7	9105.6	8115.1
72.5°	13866.4	13447.5	12851.3	12126.6	11206.2	10087.1	9276.8	8133.4	7231.4	6259.0	5491.6
75°	8665.4	8075.3	7338.4	6415.0	5711.6	4803.5	4329.6	3461.2	2947.6	2498.1	2064.0
77.5°	4430.5	3987.2	3470.5	2950.6	2452.2	1956.9	1513.5	1070.2	721.5	501.5	373.0
80°	3660.1	3268.7	2840.5	2366.7	1926.4	1495.3	1076.4	733.8	467.9	305.8	238.4
82.5°	3024.0	2693.8	2311.5	1871.3	1489.1	1174.2	816.4	532.0	330.1	214.1	168.2
85°	1287.3	1168.1	902.0	715.4	538.1	397.5	278.3	186.6	131.5	107.0	97.9
87.5°	55.0	61.1	58.1	45.9	33.6	33.6	30.6	24.5	24.5	24.5	24.5
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	501.5	498.4	495.4	495.4	492.2	489.3	470.9	455.7	437.3	425.0	412.8
5°	522.9	519.7	513.8	510.6	504.5	501.5	461.8	428.0	400.5	379.2	363.9
7.5°	544.2	541.3	532.0	522.9	519.7	513.8	449.5	406.6	370.1	345.5	330.1
10°	571.7	562.6	553.5	541.3	532.0	522.9	437.3	382.1	342.4	321.0	305.8
12.5°	611.4	596.2	581.0	565.6	553.5	538.1	431.1	360.8	321.0	296.5	281.3
15°	657.5	635.9	617.6	599.4	577.8	562.6	418.9	342.4	302.7	278.3	259.9
17.5°	700.2	675.7	648.2	620.7	599.4	577.8	406.6	324.2	284.3	259.9	241.6
20°	761.3	724.7	691.1	657.5	626.8	599.4	388.3	305.8	269.0	241.6	223.2
22.5°	828.7	785.8	743.1	697.2	657.5	620.7	373.0	290.4	253.8	226.3	204.8
25°	914.3	862.3	804.2	746.1	700.2	651.4	357.8	275.2	238.4	210.9	189.6
27.5°	1033.5	960.1	895.9	822.6	752.2	697.2	345.5	262.9	223.2	195.7	174.4
30°	1195.6	1088.4	987.6	908.2	825.5	746.1	333.3	247.7	210.9	180.5	156.0
32.5°	1375.9	1250.5	1134.3	1015.1	911.1	819.4	321.0	235.4	195.7	165.1	143.7
35°	1599.2	1440.1	1284.1	1146.6	1021.2	898.9	308.8	223.2	183.4	149.8	128.5
37.5°	1920.3	1721.4	1516.6	1339.3	1177.2	1015.1	299.7	210.9	168.2	134.6	113.1
40°	2360.5	2103.7	1852.9	1611.3	1400.4	1198.6	287.4	198.7	156.0	122.4	100.8
42.5°	2837.5	2525.6	2195.5	1923.3	1632.9	1379.0	275.2	186.6	143.7	110.1	88.8
45°	3430.8	3042.3	2641.8	2271.8	1917.1	1590.0	262.9	174.4	128.5	97.9	76.5
47.5°	4079.0	3583.6	3131.1	2666.3	2244.3	1852.9	247.7	165.1	116.2	85.6	67.2
50°	4745.6	4222.7	3650.8	3121.8	2620.5	2116.0	232.5	149.8	104.0	76.5	55.0
52.5°	5463.9	4846.4	4262.4	3604.9	3021.0	2461.3	217.1	137.6	94.7	67.2	45.9
55°	6378.2	5687.3	5002.4	4265.4	3562.2	2862.0	201.8	122.4	82.6	58.1	36.8
57.5°	7527.9	6708.5	5867.6	5036.0	4183.0	3387.9	189.6	107.0	70.4	48.8	30.6
60°	8613.4	7656.4	6638.2	5681.2	4717.9	3791.5	171.2	94.7	61.1	39.7	30.6
62.5°	9176.0	8084.4	6986.7	5931.9	4904.5	3935.3	152.8	79.5	52.0	33.6	27.5
65°	9038.4	7925.5	6861.4	5797.2	4791.4	3843.5	134.6	70.4	45.9	30.6	27.5
66°	8839.8	7738.9	6668.8	5656.7	4696.5	3745.7	125.3	67.2	42.9	30.6	24.5
67.5°	8405.5	7341.3	6320.1	5378.3	4436.6	3559.1	113.1	61.1	39.7	27.5	24.5
70°	7179.4	6213.2	5396.7	4559.0	3791.5	2999.6	91.7	52.0	33.6	24.5	24.5
72.5°	4751.5	4094.2	3550.0	3054.6	2553.1	1981.4	76.5	42.9	27.5	24.5	21.4
75°	1791.8	1620.6	1391.3	1250.5	1091.6	957.0	61.1	27.5	21.4	21.4	21.4
77.5°	318.1	293.6	259.9	238.4	220.2	201.8	48.8	18.4	18.4	21.4	21.4
80°	214.1	198.7	180.5	165.1	152.8	137.6	33.6	15.2	18.4	18.4	21.4
82.5°	152.8	143.7	134.6	122.4	113.1	100.8	21.4	15.2	18.4	18.4	18.4
85°	91.7	85.6	79.5	73.3	64.2	61.1	15.2	15.2	15.2	18.4	18.4
87.5°	24.5	21.4	24.5	24.5	18.4	21.4	12.3	12.3	12.3	15.2	15.2
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):

	145°	155°	165°	175°	180°
0°	480.0	480.0	480.0	480.0	480.0
2.5°	406.6	406.6	400.5	409.8	409.8
5°	351.7	351.7	348.5	351.7	351.7
7.5°	321.0	318.1	318.1	318.1	321.0
10°	293.6	290.4	290.4	290.4	290.4
12.5°	269.0	266.1	262.9	266.1	266.1
15°	247.7	241.6	241.6	241.6	241.6
17.5°	229.3	223.2	220.2	220.2	220.2
20°	210.9	201.8	201.8	201.8	201.8
22.5°	192.5	183.4	183.4	183.4	183.4
25°	174.4	165.1	165.1	165.1	165.1
27.5°	158.9	149.8	149.8	149.8	149.8
30°	140.7	134.6	134.6	137.6	134.6
32.5°	128.5	119.2	119.2	122.4	122.4
35°	113.1	107.0	107.0	107.0	107.0
37.5°	97.9	91.7	91.7	91.7	91.7
40°	85.6	79.5	76.5	79.5	79.5
42.5°	73.3	67.2	64.2	64.2	64.2
45°	64.2	55.0	52.0	55.0	55.0
47.5°	52.0	45.9	45.9	48.8	48.8
50°	39.7	39.7	42.9	48.8	48.8
52.5°	36.8	36.8	42.9	48.8	48.8
55°	33.6	36.8	42.9	45.9	48.8
57.5°	30.6	36.8	42.9	45.9	45.9
60°	30.6	33.6	39.7	45.9	45.9
62.5°	27.5	30.6	36.8	42.9	42.9
65°	27.5	30.6	36.8	42.9	42.9
66°	27.5	30.6	36.8	42.9	42.9
67.5°	27.5	30.6	36.8	42.9	42.9
70°	27.5	30.6	36.8	39.7	39.7
72.5°	24.5	27.5	33.6	39.7	39.7
75°	24.5	27.5	33.6	39.7	39.7
77.5°	24.5	27.5	33.6	39.7	39.7
80°	24.5	27.5	33.6	36.8	39.7
82.5°	21.4	27.5	30.6	36.8	36.8
85°	21.4	24.5	30.6	33.6	36.8
87.5°	18.4	21.4	24.5	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)