

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: McGRAW-EDISON

Report Number: P165377

Luminaire Tested: **VTS-E05-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165377
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: MCGRAW-EDISON
Catalog Number: VTS-E05-LED-E1-SL4-HSS
Description: VENTUS LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10052.5 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

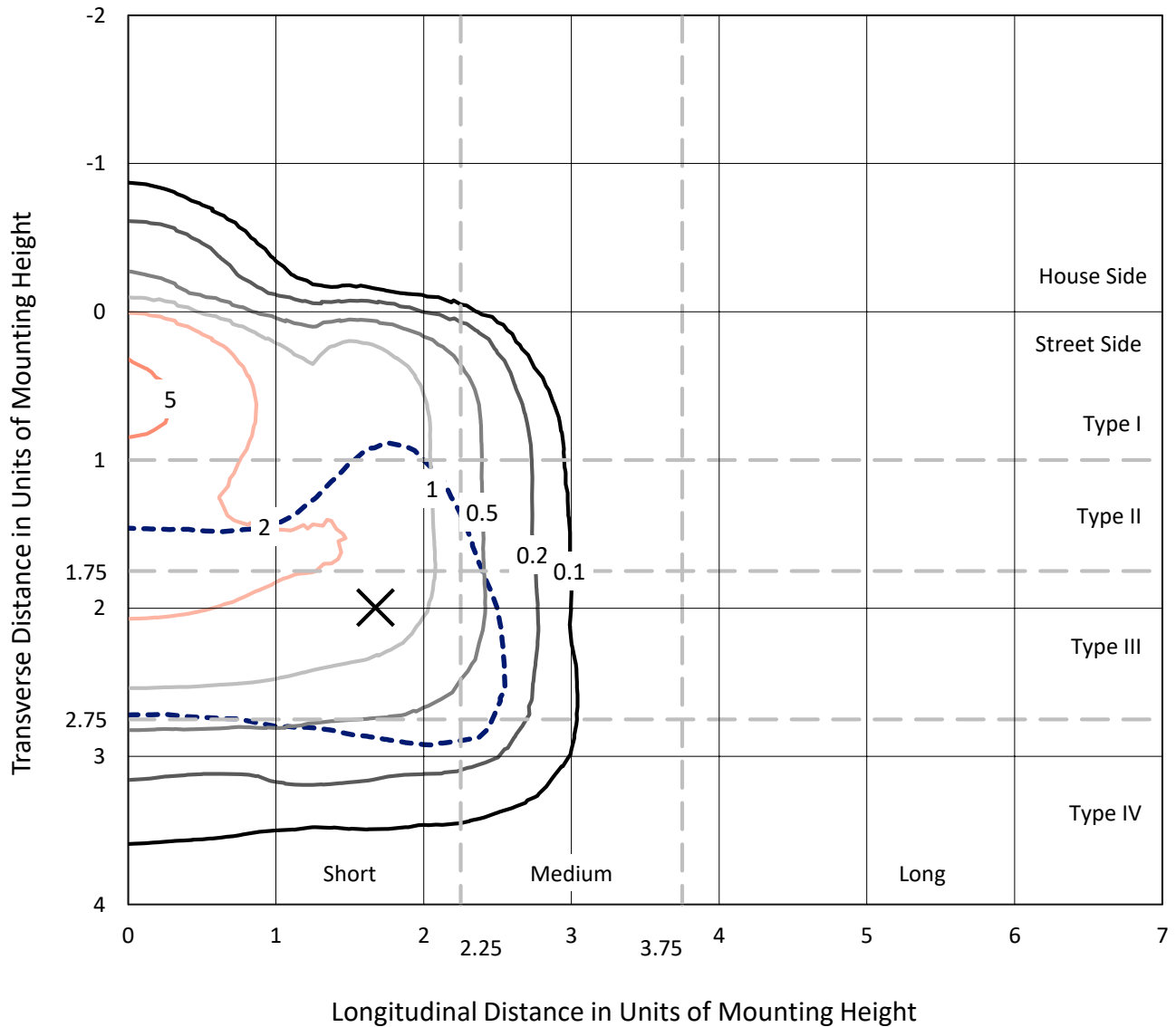
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

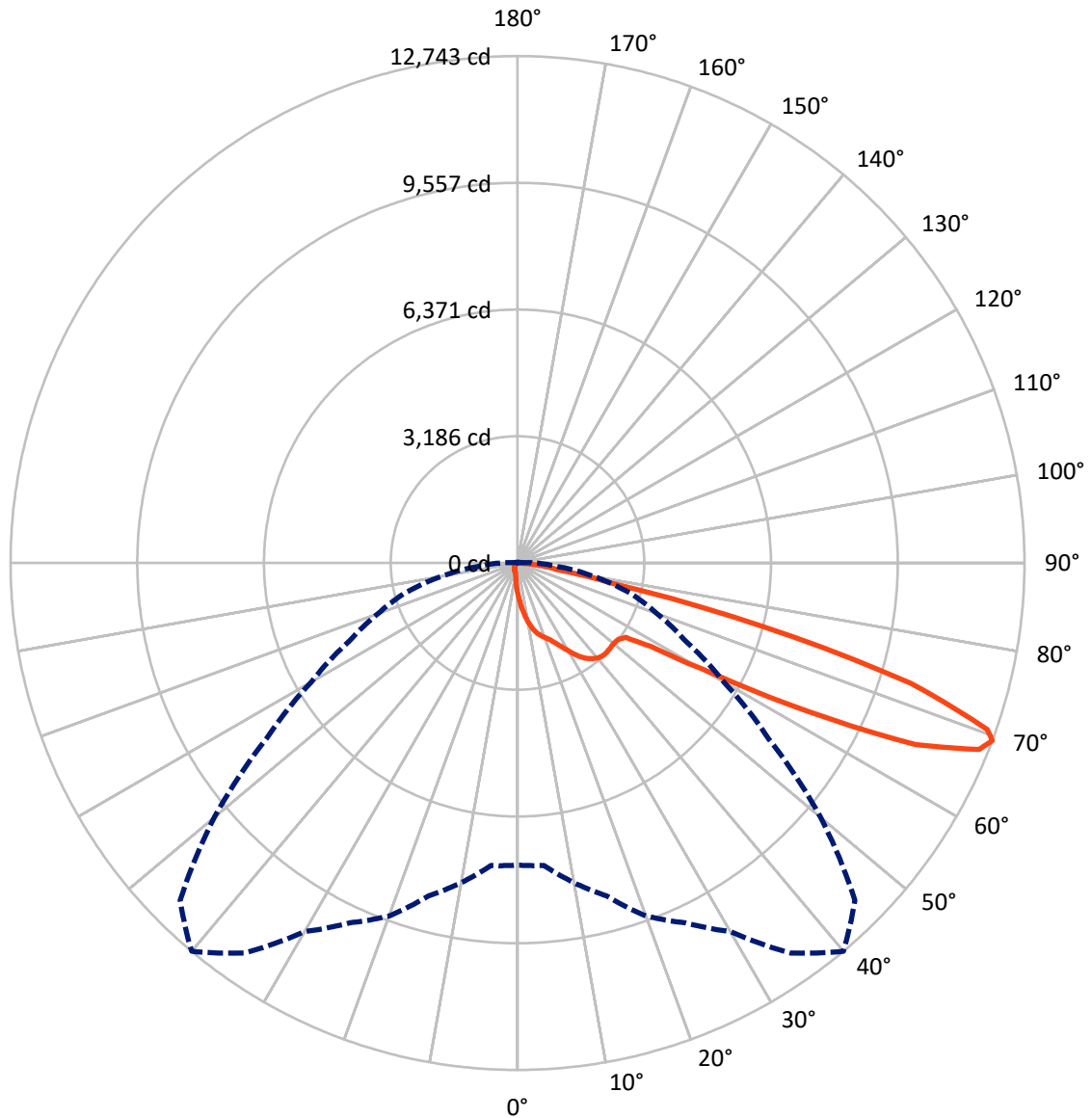


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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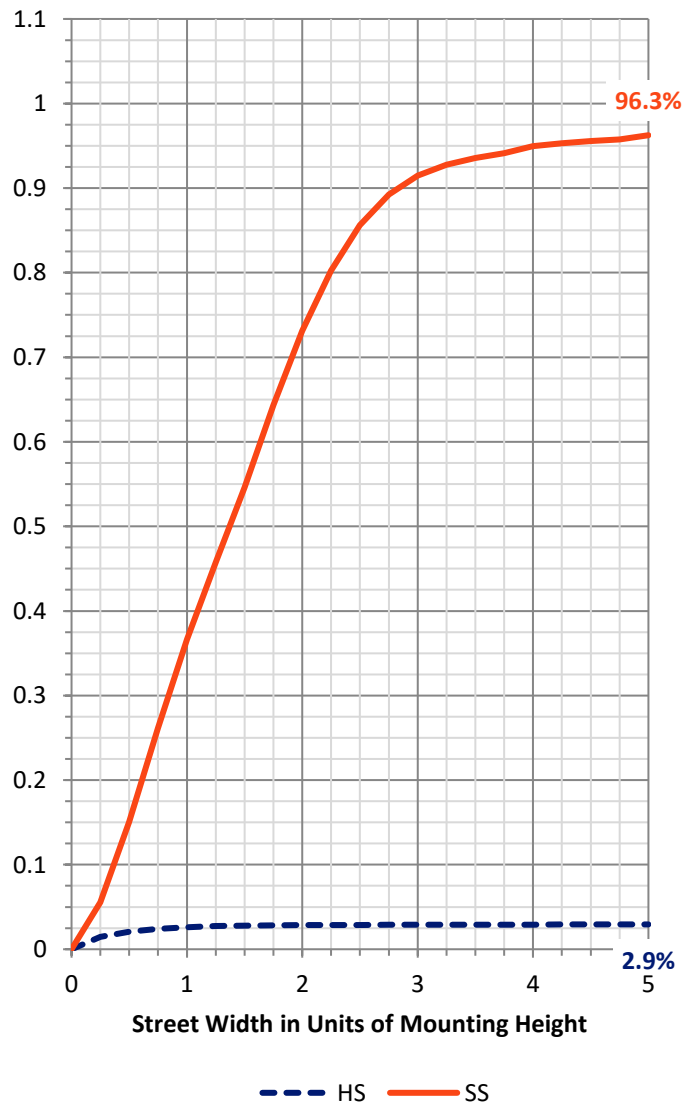
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	299.4	0.0	299.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	9753.1	0.0	9753.1
	% Fixture	97.0	0.0	97.0
Total	Lumens	10052.5	0.0	10052.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	0.8
10°-20°	269.0	2.7
20°-30°	514.9	5.1
30°-40°	856.3	8.5
40°-50°	1158.7	11.5
50°-60°	1812.1	18.0
60°-70°	3725.6	37.1
70°-80°	1499.1	14.9
80°-90°	138.7	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°	10052.5	100.0
0°-180°	10052.5	100.0



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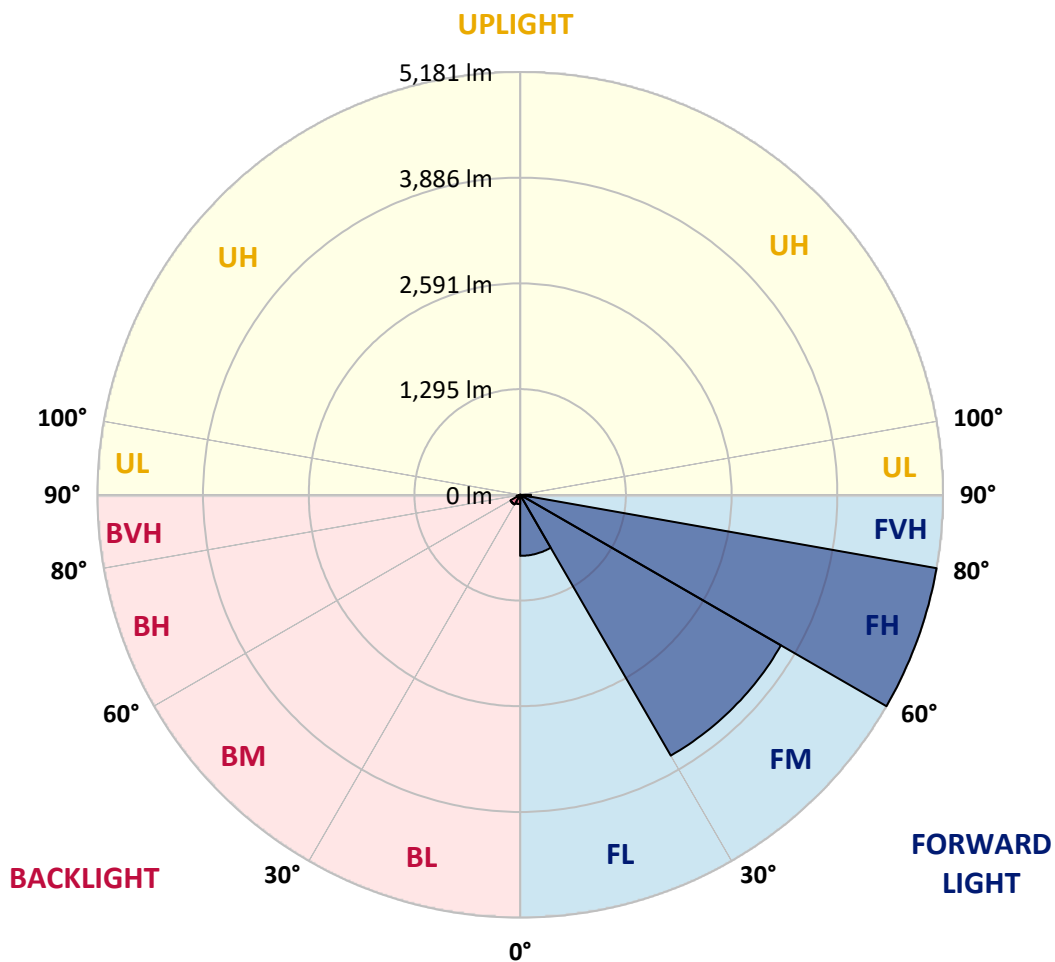
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.1	7.4			
FM (30°-60°)	3690.4	36.7			
FH (60°-80°)	5181.1	51.5			G3/7500
FVH (80°-90°)	133.5	1.3			G2/225
BL (0°-30°)	113.9	1.1	B1/500		
BM (30°-60°)	136.7	1.4	B0/220		
BH (60°-80°)	43.7	0.4	B0/110		G0/110
BVH (80°-90°)	5.2	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°	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2
2.5°	1012.8	1001.2	988.0	988.0	971.6	971.6	961.7	935.4	932.1	917.2	902.4
5°	1292.7	1282.8	1266.4	1251.5	1238.4	1215.3	1198.8	1167.5	1133.0	1100.0	1070.4
7.5°	1566.1	1561.1	1531.5	1526.5	1505.1	1467.3	1434.3	1388.2	1328.9	1282.8	1228.5
10°	1819.7	1808.1	1801.5	1773.5	1742.3	1701.1	1650.0	1594.1	1524.9	1452.4	1375.0
12.5°	2020.6	2014.0	1984.3	1972.8	1939.9	1898.7	1834.5	1762.0	1692.9	1599.0	1508.4
15°	2170.4	2158.9	2139.1	2121.0	2081.5	2045.3	1986.0	1906.9	1823.0	1720.9	1612.2
17.5°	2295.6	2274.2	2269.2	2241.2	2200.1	2157.2	2091.4	2018.9	1920.1	1818.0	1699.4
20°	2463.5	2433.9	2424.0	2382.8	2335.1	2275.8	2200.1	2109.5	2005.7	1893.8	1771.9
22.5°	2661.1	2639.7	2618.3	2582.1	2521.2	2437.2	2326.9	2228.1	2096.3	1972.8	1841.1
25°	2941.1	2923.0	2888.4	2839.0	2763.2	2662.8	2529.4	2384.5	2229.7	2071.6	1916.8
27.5°	3212.8	3196.3	3171.6	3133.8	3048.1	2937.8	2773.1	2588.7	2392.7	2201.7	2030.4
30°	3468.1	3453.2	3428.5	3390.7	3314.9	3206.2	3020.1	2822.5	2578.8	2356.5	2150.7
32.5°	3743.1	3738.1	3710.1	3655.8	3589.9	3443.4	3240.8	3028.4	2781.4	2524.5	2284.0
35°	4054.3	4016.4	3990.1	3935.7	3823.8	3667.3	3430.2	3198.0	2937.8	2674.3	2405.9
37.5°	4317.8	4281.6	4248.6	4179.5	4042.8	3843.5	3575.1	3319.8	3051.4	2783.0	2509.6
40°	4510.4	4492.3	4452.8	4362.2	4209.1	3972.0	3682.1	3403.8	3133.8	2863.7	2593.6
42.5°	4653.7	4625.7	4581.3	4487.4	4306.3	4036.2	3724.9	3438.4	3171.6	2913.1	2648.0
45°	4706.4	4683.4	4642.2	4540.1	4344.1	4054.3	3723.3	3428.5	3173.3	2927.9	2684.2
47.5°	4675.1	4652.1	4615.8	4520.3	4327.7	4032.9	3693.7	3400.5	3156.8	2932.9	2717.1
50°	4571.4	4558.2	4530.2	4449.5	4276.6	3991.7	3667.3	3385.7	3153.5	2957.6	2763.2
52.5°	4561.5	4553.3	4518.7	4438.0	4261.8	3978.5	3664.0	3394.0	3181.5	2988.9	2796.2
55°	5574.2	5457.3	5195.5	4973.2	4607.6	4172.9	3830.3	3527.3	3300.1	3112.4	2977.3
57.5°	7922.5	7748.0	7403.8	6980.6	6140.7	5315.7	4655.4	4177.8	3942.3	3856.7	3907.7
60°	9022.5	8991.3	8936.9	8736.0	8306.2	7596.5	6806.0	5951.4	5608.8	5579.2	5682.9
62.5°	9544.6	9524.8	9541.3	9516.6	9383.2	9175.7	8948.4	8579.6	8240.3	8021.3	7556.9
65°	9785.0	9798.2	9892.0	9966.1	9982.6	10036.9	10203.3	10662.7	10998.6	10433.8	9144.4
67.5°	9174.0	9251.4	9467.2	9737.2	10053.4	10359.7	10853.7	11822.0	12512.0	11848.4	10017.2
69°	7594.8	7632.7	8159.6	8668.5	9440.8	9981.0	10697.3	11966.9	12742.6	11993.3	9948.0
70°	5979.3	6013.9	6578.8	7270.4	8576.3	9271.2	10208.2	11721.6	12526.8	11800.6	9592.3
72.5°	2697.4	2648.0	2847.2	3217.7	4637.2	5740.6	7379.1	9496.8	10335.0	9454.0	7176.5
75°	1883.9	1862.5	1883.9	1885.5	2106.2	2717.1	3428.5	5147.7	6366.3	5493.6	3428.5
77.5°	1459.0	1444.2	1429.4	1412.9	1439.3	1612.2	1681.3	1826.2	2371.3	2242.9	1307.5
80°	1154.4	1141.2	1177.4	1165.9	1165.9	1185.7	1172.5	1118.1	1016.0	941.9	843.1
82.5°	536.8	540.1	540.1	586.2	706.5	825.0	862.9	808.6	718.0	610.9	492.4
85°	51.0	57.6	97.2	149.9	298.1	335.9	337.6	279.9	279.9	220.7	177.8
87.5°	0.0	1.6	1.6	1.6	14.8	41.2	34.6	9.9	4.9	4.9	8.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2
2.5°	876.1	871.1	851.4	831.6	813.5	793.7	775.6	757.5	737.7	722.9	704.8
5°	1024.3	988.0	946.9	907.4	867.8	826.7	783.9	746.0	706.5	670.2	635.6
7.5°	1174.1	1103.3	1047.3	976.5	912.3	848.1	788.8	727.9	671.9	619.2	569.8
10°	1300.9	1215.3	1128.0	1037.5	945.2	859.6	777.3	704.8	630.7	566.5	505.6
12.5°	1404.7	1296.0	1189.0	1075.3	971.6	862.9	760.8	673.5	586.2	513.8	451.2
15°	1498.5	1373.4	1244.9	1113.2	981.5	858.0	744.3	635.6	546.7	464.4	393.6
17.5°	1574.3	1431.0	1286.1	1137.9	996.3	851.4	722.9	609.3	505.6	419.9	350.8
20°	1640.2	1490.3	1333.9	1167.5	1006.2	849.7	704.8	576.4	469.3	378.8	311.2
22.5°	1701.1	1551.2	1383.3	1205.4	1021.0	848.1	688.3	551.7	438.0	347.5	279.9
25°	1770.3	1612.2	1436.0	1244.9	1047.3	854.7	678.5	531.9	410.0	317.8	255.2
27.5°	1847.7	1681.3	1498.5	1294.3	1081.9	867.8	675.2	510.5	385.3	289.8	235.5
30°	1956.3	1763.7	1561.1	1343.7	1113.2	882.7	671.9	497.3	360.6	268.4	215.7
32.5°	2051.9	1844.4	1630.3	1394.8	1147.8	897.5	670.2	479.2	337.6	247.0	200.9
35°	2152.3	1918.5	1689.6	1444.2	1177.4	913.9	668.6	466.0	316.2	225.6	186.1
37.5°	2239.6	1981.0	1735.7	1487.0	1210.4	928.8	670.2	454.5	296.4	207.5	172.9
40°	2313.7	2045.3	1786.7	1526.5	1244.9	951.8	671.9	443.0	276.7	191.0	161.4
42.5°	2379.6	2106.2	1841.1	1571.0	1284.5	978.2	681.8	433.1	260.2	176.2	149.9
45°	2430.6	2162.2	1900.3	1633.6	1348.7	1021.0	699.9	426.5	243.7	163.0	140.0
47.5°	2483.3	2244.5	2000.8	1732.4	1442.6	1088.5	731.2	424.9	230.5	153.1	131.7
50°	2555.8	2326.9	2089.7	1832.8	1528.2	1157.7	769.0	426.5	214.1	143.3	123.5
52.5°	2608.5	2410.8	2205.0	2007.4	1732.4	1368.4	915.6	456.1	205.8	135.0	113.6
55°	2919.7	2885.1	2890.0	2923.0	2710.6	2328.5	1531.5	658.7	242.1	153.1	112.0
57.5°	4116.9	4238.7	4309.5	4307.9	3957.1	3282.0	2056.8	846.4	270.1	177.8	133.4
60°	5691.2	5599.0	5468.9	5147.7	4681.7	3746.4	2300.5	910.7	233.8	141.6	121.9
62.5°	7082.7	6542.5	6063.3	5543.0	4932.0	3907.7	2349.9	905.7	204.2	107.0	85.6
65°	7950.5	6978.9	6205.0	5552.8	4833.2	3772.7	2223.1	831.6	172.9	87.3	70.8
67.5°	8158.0	6743.4	5648.4	4816.7	4037.8	2936.2	1631.9	625.8	135.0	72.5	62.6
69°	7705.1	5994.2	4680.1	3736.5	2937.8	1948.1	1009.5	395.2	103.7	65.9	57.6
70°	7087.6	5213.6	3812.2	2998.7	2175.4	1368.4	706.5	278.3	84.0	60.9	52.7
72.5°	4559.9	2738.5	1874.0	1304.2	897.5	545.1	276.7	125.2	64.2	51.0	42.8
75°	1768.6	1012.8	734.5	558.2	436.4	303.0	168.0	80.7	54.3	42.8	32.9
77.5°	871.1	666.9	545.1	373.8	217.4	135.0	90.6	62.6	44.5	31.3	21.4
80°	688.3	457.8	273.4	169.6	128.4	97.2	69.2	51.0	32.9	19.8	14.8
82.5°	352.4	192.7	141.6	115.3	95.5	75.8	56.0	36.2	21.4	13.2	11.5
85°	110.3	80.7	72.5	70.8	65.9	54.3	39.5	23.1	13.2	8.2	8.2
87.5°	8.2	11.5	14.8	11.5	13.2	11.5	14.8	9.9	6.6	6.6	4.9
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°	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2
2.5°	691.6	671.9	653.8	642.2	620.8	612.6	604.4	601.1	586.2	589.5	576.4
5°	604.4	569.8	543.4	517.1	492.4	474.3	459.4	441.3	426.5	419.9	406.7
7.5°	525.3	480.9	446.3	418.3	388.6	365.6	345.8	332.6	319.5	306.3	299.7
10°	456.1	408.4	368.9	340.9	312.9	293.1	278.3	268.4	260.2	255.2	253.6
12.5°	391.9	345.8	309.6	284.9	263.5	253.6	247.0	242.1	240.4	238.8	238.8
15°	342.5	296.4	268.4	250.3	240.4	235.5	233.8	230.5	227.3	225.6	225.6
17.5°	296.4	261.8	242.1	232.2	227.3	224.0	220.7	217.4	214.1	212.4	212.4
20°	265.1	237.1	227.3	220.7	215.7	212.4	207.5	204.2	202.6	200.9	199.3
22.5°	240.4	222.3	215.7	210.8	204.2	199.3	196.0	192.7	189.4	187.7	186.1
25°	222.3	210.8	205.8	199.3	192.7	187.7	182.8	177.8	174.6	172.9	169.6
27.5°	209.1	200.9	194.3	186.1	179.5	174.6	169.6	164.7	161.4	158.1	156.4
30°	197.6	189.4	181.1	174.6	166.3	161.4	154.8	149.9	148.2	144.9	141.6
32.5°	186.1	177.8	169.6	161.4	153.1	146.6	143.3	136.7	133.4	131.7	128.4
35°	172.9	164.7	154.8	148.2	140.0	133.4	128.4	123.5	120.2	116.9	115.3
37.5°	161.4	151.5	141.6	133.4	126.8	120.2	115.3	110.3	107.0	103.7	102.1
40°	148.2	138.3	128.4	120.2	113.6	108.7	103.7	98.8	95.5	93.9	93.9
42.5°	136.7	125.2	115.3	108.7	103.7	97.2	92.2	87.3	85.6	84.0	85.6
45°	125.2	113.6	105.4	98.8	93.9	87.3	82.3	79.0	77.4	79.0	80.7
47.5°	115.3	103.7	95.5	90.6	85.6	80.7	75.8	72.5	72.5	75.8	79.0
50°	105.4	93.9	87.3	84.0	79.0	74.1	67.5	65.9	67.5	70.8	74.1
52.5°	95.5	82.3	77.4	75.8	70.8	65.9	60.9	59.3	60.9	64.2	62.6
55°	85.6	72.5	70.8	69.2	64.2	57.6	52.7	52.7	52.7	51.0	47.8
57.5°	82.3	64.2	62.6	60.9	56.0	49.4	46.1	42.8	41.2	36.2	34.6
60°	85.6	57.6	57.6	54.3	49.4	42.8	37.9	32.9	29.6	26.3	26.3
62.5°	69.2	52.7	51.0	47.8	41.2	34.6	29.6	24.7	23.1	21.4	21.4
65°	56.0	47.8	44.5	39.5	34.6	28.0	23.1	19.8	18.1	18.1	19.8
67.5°	51.0	42.8	37.9	32.9	28.0	21.4	18.1	16.5	16.5	18.1	18.1
69°	47.8	39.5	34.6	29.6	24.7	19.8	16.5	16.5	16.5	16.5	18.1
70°	44.5	37.9	32.9	28.0	21.4	16.5	14.8	14.8	16.5	16.5	18.1
72.5°	34.6	29.6	28.0	23.1	16.5	14.8	13.2	14.8	14.8	16.5	16.5
75°	26.3	21.4	21.4	18.1	13.2	11.5	11.5	13.2	13.2	14.8	14.8
77.5°	18.1	14.8	14.8	13.2	11.5	9.9	9.9	11.5	13.2	13.2	14.8
80°	13.2	11.5	9.9	11.5	9.9	8.2	9.9	11.5	11.5	13.2	13.2
82.5°	9.9	9.9	9.9	9.9	8.2	8.2	9.9	9.9	11.5	13.2	13.2
85°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.9	9.9	11.5	11.5
87.5°	4.9	4.9	4.9	6.6	6.6	8.2	8.2	8.2	8.2	9.9	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):

	165°	170°	175°	180°
0°	759.2	759.2	759.2	759.2
2.5°	573.1	571.4	564.8	566.5
5°	401.8	391.9	398.5	396.9
7.5°	294.8	293.1	291.5	294.8
10°	252.0	252.0	250.3	252.0
12.5°	237.1	237.1	237.1	237.1
15°	225.6	225.6	224.0	224.0
17.5°	212.4	212.4	212.4	210.8
20°	199.3	197.6	197.6	197.6
22.5°	184.4	182.8	182.8	182.8
25°	169.6	168.0	168.0	168.0
27.5°	154.8	153.1	151.5	151.5
30°	140.0	138.3	136.7	136.7
32.5°	125.2	123.5	121.9	121.9
35°	112.0	112.0	110.3	108.7
37.5°	100.5	100.5	100.5	100.5
40°	92.2	93.9	93.9	93.9
42.5°	87.3	88.9	90.6	92.2
45°	84.0	87.3	88.9	88.9
47.5°	82.3	84.0	85.6	85.6
50°	75.8	74.1	74.1	74.1
52.5°	60.9	57.6	56.0	54.3
55°	44.5	42.8	39.5	39.5
57.5°	31.3	31.3	29.6	29.6
60°	24.7	24.7	23.1	24.7
62.5°	21.4	21.4	21.4	21.4
65°	19.8	19.8	19.8	19.8
67.5°	19.8	19.8	19.8	19.8
69°	18.1	18.1	18.1	18.1
70°	18.1	18.1	18.1	18.1
72.5°	16.5	16.5	16.5	16.5
75°	14.8	16.5	16.5	16.5
77.5°	14.8	14.8	14.8	14.8
80°	13.2	13.2	14.8	14.8
82.5°	13.2	13.2	13.2	13.2
85°	11.5	11.5	13.2	13.2
87.5°	9.9	9.9	11.5	11.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)