

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: P164922

Luminaire Tested: **VTS-F03-LED-E1-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P164922
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F03-LED-E1-SL2-HSS
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4486.7 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

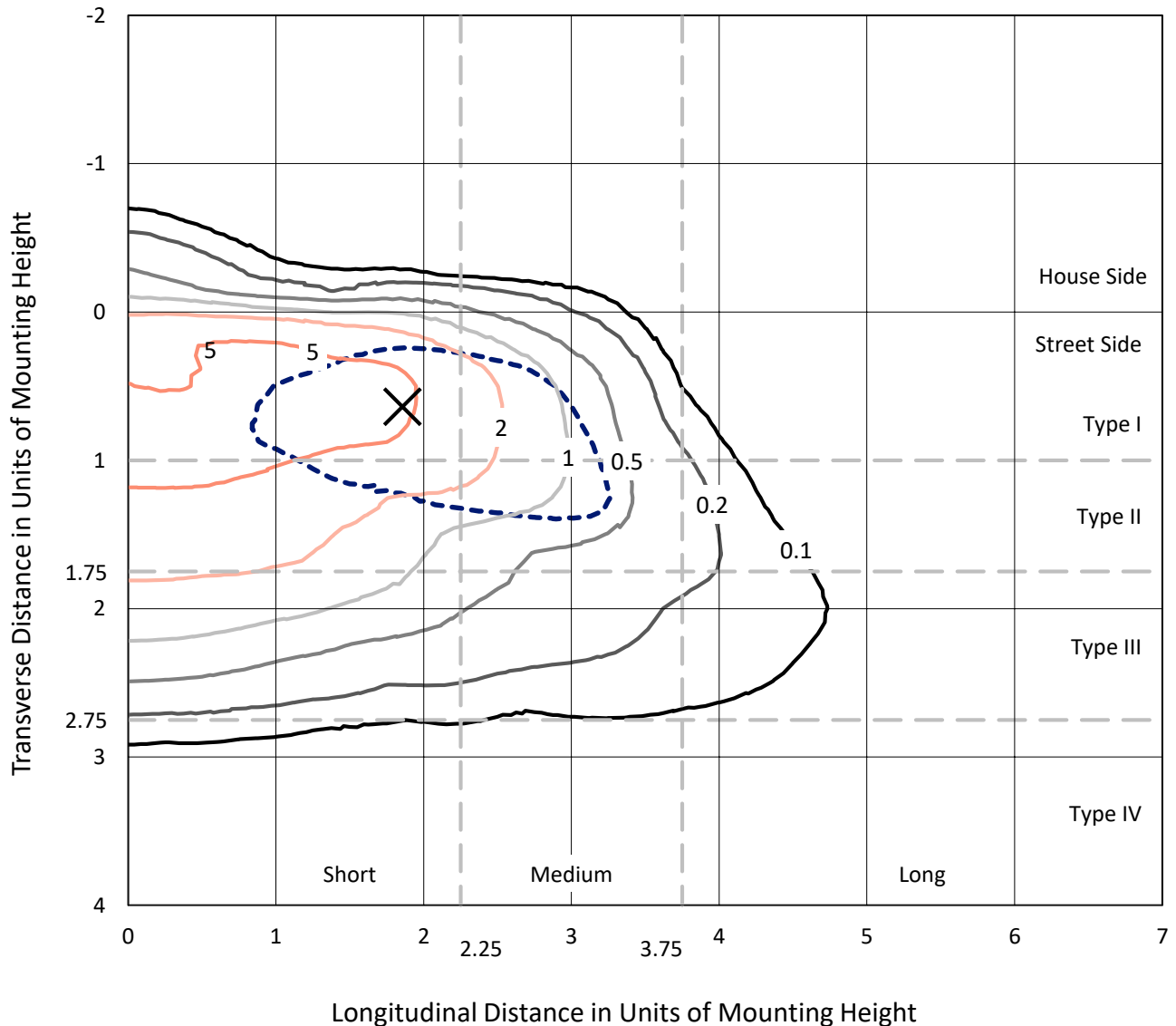
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

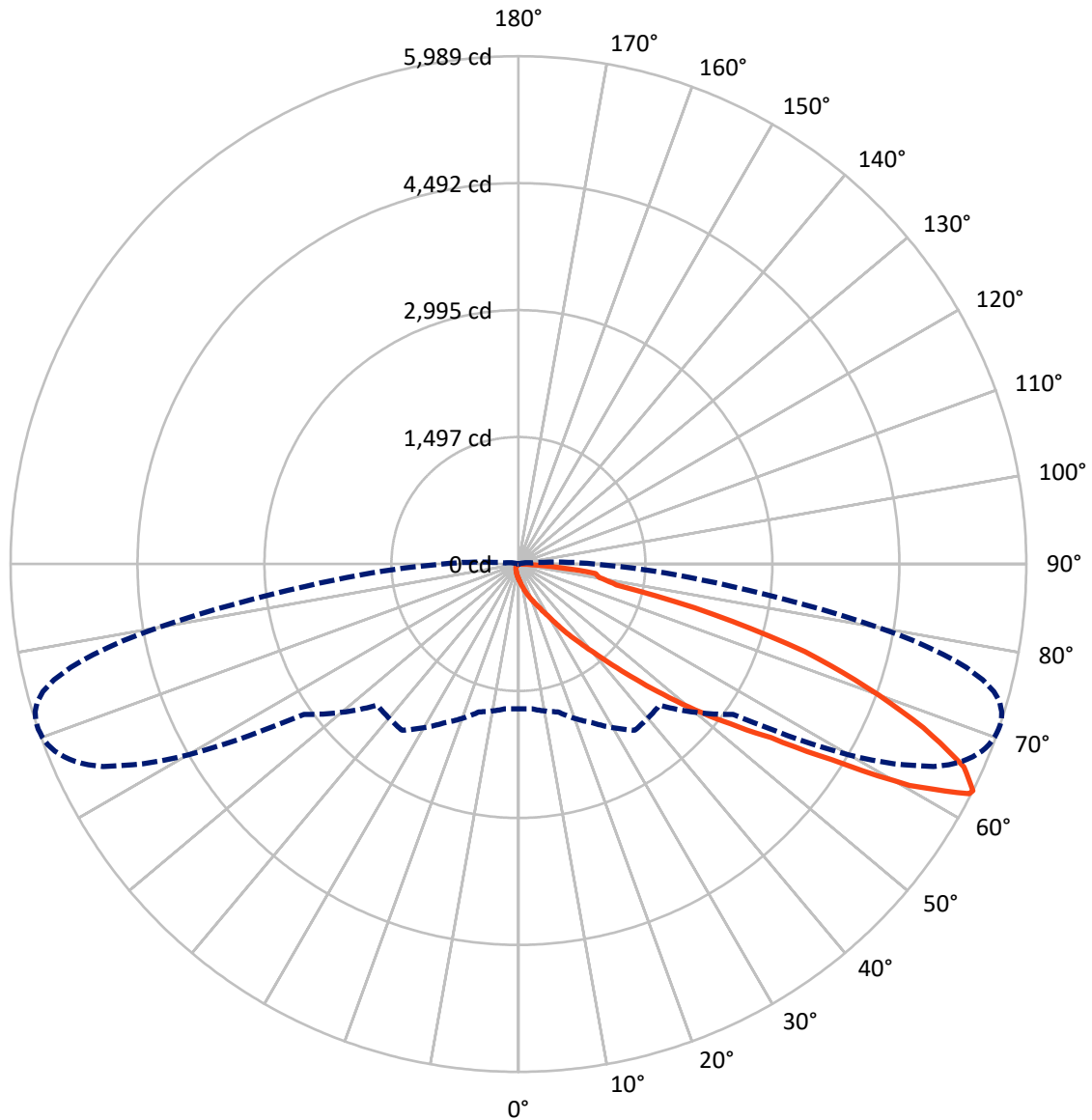


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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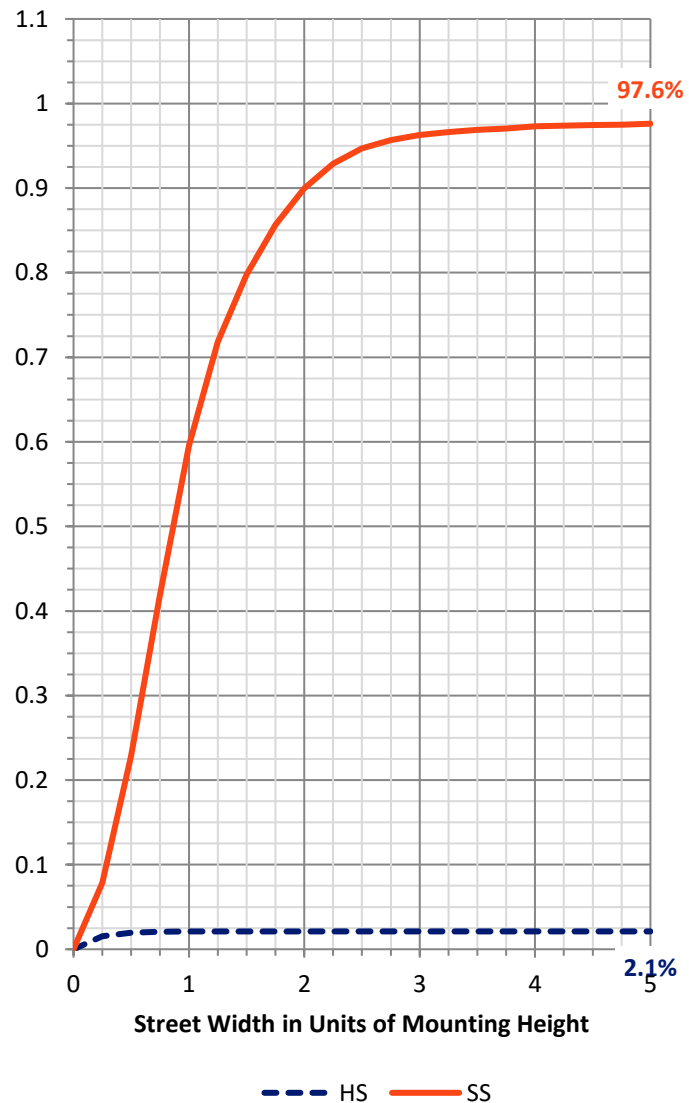
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	95.2	0.0	95.2
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4391.5	0.0	4391.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	4486.7	0.0	4486.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	0.4
10°-20°	73.8	1.6
20°-30°	149.8	3.3
30°-40°	366.1	8.2
40°-50°	818.7	18.2
50°-60°	1151.2	25.7
60°-70°	1353.8	30.2
70°-80°	488.8	10.9
80°-90°	65.4	1.5
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°	4486.7	100.0
0°-180°	4486.7	100.0



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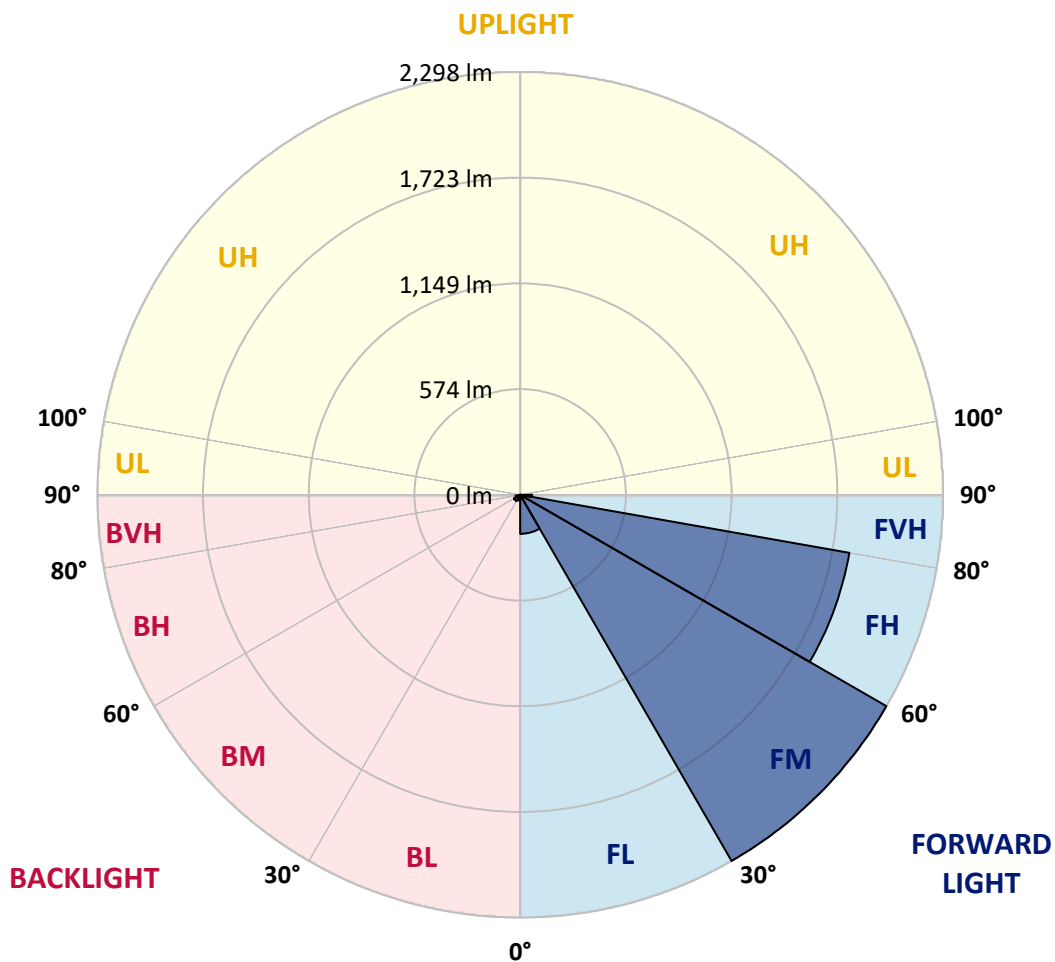
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.0	4.7			
FM	(30°-60°)	2297.7	51.2			
FH	(60°-80°)	1816.5	40.5			G2/5000
FVH	(80°-90°)	65.2	1.5			G1/100
BL	(0°-30°)	30.6	0.7	B0/110		
BM	(30°-60°)	38.4	0.9	B0/220		
BH	(60°-80°)	26.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1
2.5°	225.1	227.5	225.9	221.9	216.9	210.5	204.7	204.7	203.9	201.4	202.3
5°	295.3	296.1	292.8	283.0	274.1	260.2	244.7	243.1	241.4	239.0	238.2
7.5°	363.8	367.0	363.8	353.2	335.2	314.0	289.6	287.1	282.2	282.2	279.0
10°	433.9	433.9	430.7	418.4	402.1	371.9	340.9	336.9	331.2	329.5	324.6
12.5°	483.7	483.7	482.0	475.6	462.5	435.6	398.0	394.0	386.6	384.2	378.5
15°	503.2	503.2	504.1	509.8	510.6	498.4	459.2	455.9	448.6	442.1	439.6
17.5°	515.5	514.7	514.7	522.9	537.5	545.7	520.4	517.1	509.0	505.7	497.5
20°	542.4	540.8	535.9	535.9	549.8	578.3	578.3	577.5	568.5	566.0	562.0
22.5°	582.4	580.8	566.0	553.8	560.3	596.3	629.7	628.1	624.8	621.5	619.1
25°	647.6	641.9	616.6	580.8	575.1	613.4	668.8	672.9	675.4	675.4	677.0
27.5°	746.3	739.0	694.1	627.3	602.0	641.1	712.1	720.2	727.6	729.2	736.5
30°	883.3	870.3	805.9	708.0	650.1	681.9	775.7	784.7	795.3	798.5	809.9
32.5°	1108.5	1101.1	1039.2	892.3	768.3	761.8	864.6	876.0	889.9	895.6	909.4
35°	1451.1	1452.7	1402.1	1270.0	1098.7	1009.0	1023.7	1033.4	1038.3	1055.5	1062.8
37.5°	1683.5	1687.6	1699.0	1646.8	1524.5	1433.1	1318.1	1328.7	1303.4	1305.8	1306.7
40°	1810.8	1823.8	1890.7	1941.3	1931.5	1878.5	1786.3	1792.0	1744.7	1734.1	1682.7
42.5°	1895.6	1912.7	2019.6	2176.2	2256.1	2304.3	2283.1	2280.6	2243.9	2230.0	2186.8
45°	1948.6	1964.1	2098.7	2329.5	2513.9	2654.1	2712.0	2718.6	2687.6	2673.7	2637.8
47.5°	1946.1	1964.1	2108.5	2386.6	2658.3	2882.5	3045.7	3053.8	3072.6	3060.4	3062.8
50°	1838.5	1855.6	2000.8	2289.5	2615.8	2986.9	3285.5	3311.6	3341.7	3362.1	3372.0
52.5°	1708.0	1720.2	1849.1	2123.2	2434.7	2943.7	3427.4	3472.3	3517.1	3555.5	3582.4
55°	1659.8	1673.7	1774.9	2002.5	2289.5	2762.6	3493.5	3559.5	3623.2	3686.0	3737.3
57.5°	1685.2	1698.2	1770.8	1945.3	2203.1	2571.8	3512.2	3615.0	3719.4	3821.4	3922.5
60°	1778.1	1792.0	1854.0	1998.3	2180.3	2461.7	3438.8	3609.3	3783.0	3960.8	4128.1
62.5°	1741.4	1747.1	1838.5	2091.4	2343.4	2367.9	3172.1	3410.3	3675.4	3949.4	4219.4
63°	1706.4	1712.9	1805.9	2066.1	2393.2	2354.0	3089.7	3340.9	3620.7	3916.0	4209.6
65°	1547.3	1548.1	1619.1	1824.6	2337.7	2378.5	2722.7	2962.5	3283.8	3637.8	4009.0
67.5°	1155.0	1149.3	1217.8	1374.4	1835.2	2379.3	2336.8	2471.5	2695.0	3009.0	3341.7
70°	409.5	400.5	511.4	728.4	1143.5	1946.1	2008.2	2017.1	2079.1	2248.8	2457.6
72.5°	132.9	135.4	163.1	266.7	526.9	1310.0	1818.1	1790.4	1774.1	1773.2	1801.0
75°	53.0	53.8	65.2	118.3	236.6	631.3	1592.2	1607.6	1613.4	1621.5	1630.5
77.5°	25.3	27.7	36.7	66.1	117.4	312.4	1139.5	1270.8	1345.8	1403.8	1438.8
80°	9.0	10.6	20.4	40.8	54.6	143.5	600.3	724.3	834.4	976.4	1098.7
82.5°	0.0	0.0	4.1	28.5	30.2	57.9	246.3	288.7	330.3	428.2	549.8
85°	0.0	0.0	0.0	8.2	9.0	9.8	83.2	100.4	112.6	131.3	151.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.9	12.2	18.8
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1
2.5°	200.7	199.9	199.9	198.2	197.4	195.7	195.0	192.5	191.7	191.7	191.7
5°	237.4	234.1	232.5	228.4	225.9	225.1	221.1	219.4	216.9	217.8	213.7
7.5°	278.1	272.4	270.0	264.3	262.7	256.9	255.3	251.2	248.8	243.9	242.3
10°	323.0	315.7	311.6	302.6	300.2	296.1	291.2	286.3	282.2	277.3	274.9
12.5°	374.4	367.9	364.6	352.4	346.7	340.9	334.4	327.9	321.4	317.3	311.6
15°	434.7	424.1	420.9	409.5	399.7	392.3	383.4	375.2	370.3	362.2	356.4
17.5°	494.3	483.7	481.2	464.1	453.5	448.6	438.8	428.2	419.2	411.1	402.1
20°	553.8	546.5	539.9	523.6	512.3	504.1	491.0	480.4	473.1	461.7	450.2
22.5°	613.4	606.0	601.2	584.0	573.4	562.0	550.6	539.2	528.6	514.7	501.7
25°	674.6	669.7	667.2	651.7	641.9	631.3	619.9	606.9	593.8	578.3	564.5
27.5°	738.2	739.8	734.9	731.6	721.0	713.7	695.8	686.8	677.0	658.2	641.1
30°	818.9	823.8	822.2	824.6	818.1	813.2	799.3	787.9	776.5	758.6	739.0
32.5°	920.9	927.4	930.6	939.7	936.4	934.8	930.6	914.4	906.2	875.2	867.0
35°	1078.3	1075.0	1088.9	1096.2	1093.0	1091.4	1086.5	1077.5	1067.7	1045.7	1025.3
37.5°	1283.0	1286.3	1291.2	1276.5	1266.7	1265.9	1251.2	1242.2	1228.4	1203.9	1179.4
40°	1658.2	1637.9	1615.0	1553.0	1526.1	1510.6	1467.4	1455.1	1431.5	1398.0	1372.8
42.5°	2146.0	2125.6	2057.1	1953.5	1898.0	1821.4	1786.3	1743.1	1709.6	1655.0	1625.6
45°	2630.5	2571.8	2563.6	2442.9	2374.4	2273.2	2210.4	2137.8	2062.0	1990.2	1938.0
47.5°	3039.2	3026.1	2986.2	2912.7	2849.1	2764.3	2683.5	2571.8	2493.5	2391.5	2297.7
50°	3366.2	3365.4	3350.7	3308.3	3255.3	3186.8	3115.8	3021.2	2932.3	2807.5	2707.2
52.5°	3610.9	3624.0	3628.9	3615.8	3595.4	3535.1	3499.2	3420.1	3345.0	3239.0	3130.5
55°	3790.3	3838.5	3863.0	3890.7	3885.0	3863.8	3862.2	3810.8	3776.5	3692.5	3615.8
57.5°	4012.2	4091.4	4167.2	4301.8	4306.7	4354.0	4378.5	4403.0	4409.4	4376.0	4350.7
60°	4294.4	4456.0	4599.5	4880.9	4954.3	5070.1	5145.2	5226.8	5296.1	5301.8	5300.2
62.5°	4493.4	4742.2	4973.9	5391.5	5534.3	5668.0	5768.3	5847.5	5895.6	5944.5	5967.4
63°	4499.2	4771.6	5017.9	5448.6	5598.7	5725.9	5821.4	5894.8	5945.4	5974.7	5989.4
65°	4361.3	4691.7	4985.3	5414.3	5555.5	5683.5	5733.3	5781.4	5805.9	5817.3	5774.0
67.5°	3696.6	4019.6	4362.1	4841.8	4962.5	5115.8	5156.6	5181.1	5192.5	5190.1	5153.4
70°	2764.3	3035.1	3416.0	3964.1	4124.0	4274.1	4367.0	4407.0	4420.0	4416.0	4361.3
72.5°	1929.8	2088.9	2402.9	3013.1	3230.8	3423.3	3538.3	3597.9	3610.1	3585.6	3535.1
75°	1620.7	1628.9	1699.8	2033.4	2237.3	2442.9	2572.6	2610.1	2585.6	2511.4	2382.6
77.5°	1447.0	1464.9	1464.9	1514.7	1554.6	1611.8	1624.0	1532.6	1426.6	1289.6	1178.7
80°	1213.7	1276.5	1320.6	1357.3	1361.3	1349.9	1319.7	1268.4	1186.8	1082.4	966.6
82.5°	737.4	861.4	911.9	1101.1	1194.1	1256.9	1252.1	1183.5	1121.5	1013.1	914.4
85°	186.0	200.7	217.8	283.0	317.3	387.4	431.5	451.9	459.2	421.7	381.7
87.5°	17.9	12.2	20.4	15.5	22.0	16.3	22.0	20.4	25.3	26.9	29.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1
2.5°	190.1	189.2	188.4	187.6	186.8	186.0	184.4	184.4	182.7	181.9	181.1
5°	211.3	209.6	208.8	207.2	204.7	203.1	200.7	197.4	195.0	194.1	192.5
7.5°	238.2	234.1	232.5	230.0	226.8	221.9	218.6	216.2	212.1	209.6	204.7
10°	268.4	264.3	259.4	254.5	249.6	243.9	239.8	236.6	230.0	226.8	221.1
12.5°	306.7	299.4	293.6	287.1	280.6	274.1	269.2	259.4	253.7	246.3	241.4
15°	345.8	339.3	332.8	324.6	314.8	304.2	299.4	290.4	283.0	271.6	265.1
17.5°	393.1	380.9	371.1	361.3	352.4	342.6	332.8	318.9	308.3	298.5	285.5
20°	439.6	425.0	414.3	401.3	388.3	372.8	361.3	351.5	336.9	323.8	310.0
22.5°	489.4	474.7	457.6	444.5	426.6	414.3	398.9	382.5	367.9	350.7	333.6
25°	549.8	534.2	514.7	497.5	477.1	460.0	441.3	422.5	404.6	385.0	363.0
27.5°	624.0	607.7	586.5	566.0	539.2	518.0	500.0	474.7	451.9	427.4	402.1
30°	717.8	699.8	673.7	644.4	617.5	593.8	568.5	535.1	509.8	480.4	447.8
32.5°	840.2	818.9	783.8	756.1	722.7	691.7	656.6	623.2	587.3	549.0	511.4
35°	994.3	974.7	933.9	893.2	856.4	819.7	775.7	737.4	686.8	640.3	592.1
37.5°	1154.2	1119.1	1081.6	1037.5	991.8	947.8	893.9	840.9	783.0	732.5	672.1
40°	1336.9	1294.5	1263.4	1216.1	1151.7	1088.9	1039.2	973.1	900.5	832.8	761.8
42.5°	1587.3	1540.0	1484.5	1412.7	1366.2	1292.8	1228.4	1150.1	1054.6	978.8	893.2
45°	1876.8	1812.4	1758.6	1689.2	1633.0	1541.6	1466.6	1362.2	1266.7	1167.2	1062.8
47.5°	2207.2	2127.2	2048.9	1980.4	1890.7	1801.0	1705.6	1594.6	1472.3	1363.0	1239.0
50°	2586.4	2473.1	2364.6	2276.5	2153.3	2049.8	1946.1	1821.4	1686.0	1560.3	1419.2
52.5°	3008.1	2876.8	2733.3	2597.9	2455.1	2322.2	2197.4	2053.8	1903.0	1749.6	1592.2
55°	3517.1	3418.4	3249.6	3077.5	2886.6	2708.8	2548.1	2370.3	2186.8	1985.3	1819.7
57.5°	4314.0	4265.9	4124.8	3952.7	3703.9	3487.8	3215.3	2997.5	2731.7	2454.3	2240.6
60°	5394.0	5334.4	5255.3	5115.8	4918.4	4624.8	4324.6	3986.1	3581.6	3197.4	2832.8
62.5°	5969.8	5948.6	5884.2	5787.9	5603.6	5371.9	5069.4	4697.4	4240.6	3774.1	3309.1
63°	5986.9	5960.0	5904.6	5806.7	5644.4	5420.1	5123.1	4761.8	4314.8	3839.3	3364.6
65°	5755.3	5744.7	5688.4	5581.6	5470.7	5299.3	5069.4	4758.5	4383.3	3933.9	3461.7
67.5°	5104.4	5072.6	4986.1	4953.5	4876.0	4756.9	4581.6	4367.8	4099.5	3746.3	3338.5
70°	4317.3	4270.0	4161.5	4103.6	4009.0	3933.9	3827.1	3674.5	3509.0	3262.6	2958.4
72.5°	3482.9	3385.0	3285.5	3134.6	3002.5	2868.7	2750.4	2642.8	2460.8	2361.3	2130.5
75°	2261.8	2084.0	1913.6	1685.2	1479.6	1297.7	1120.7	1031.0	844.2	768.3	659.9
77.5°	1073.4	973.9	840.2	736.5	604.4	493.5	402.9	302.6	237.4	186.0	141.9
80°	866.2	782.2	701.5	607.7	508.1	405.4	310.8	232.5	164.7	114.2	80.7
82.5°	772.4	681.1	581.5	517.1	449.4	367.9	301.8	246.3	181.9	132.9	90.5
85°	300.2	252.9	195.0	159.0	124.0	101.9	92.2	63.6	49.8	39.1	30.2
87.5°	26.1	21.2	17.1	11.4	12.2	6.5	7.3	4.9	4.1	4.1	3.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1	172.1
2.5°	180.2	179.5	178.6	177.0	177.0	175.4	174.5	173.8	169.6	160.7	153.3
5°	189.2	187.6	186.0	183.5	181.9	179.5	177.8	175.4	166.4	149.3	134.6
7.5°	202.3	199.0	196.6	191.7	189.2	186.0	183.5	179.5	164.7	138.6	118.3
10°	217.8	212.1	208.0	202.3	197.4	193.3	189.2	183.5	163.1	127.2	103.6
12.5°	236.6	230.0	221.9	215.3	208.8	203.1	197.4	190.1	160.7	117.4	92.2
15°	255.3	245.5	239.8	230.8	221.9	213.7	205.6	199.0	161.5	106.8	82.4
17.5°	276.5	266.7	254.5	244.7	234.9	224.3	214.5	201.4	157.4	98.7	75.0
20°	296.9	283.0	271.6	259.4	245.5	232.5	220.2	208.8	154.1	90.5	68.5
22.5°	318.9	302.6	287.9	272.4	255.3	240.6	225.9	211.3	148.4	83.2	62.8
25°	345.8	327.1	305.9	287.1	269.2	251.2	232.5	214.5	142.7	76.7	58.7
27.5°	378.5	354.0	332.8	309.1	283.9	261.0	240.6	221.1	137.1	71.8	54.6
30°	420.1	391.5	361.3	331.2	304.2	278.1	249.6	225.1	131.3	66.9	50.6
32.5°	475.6	439.6	402.9	367.9	332.0	298.5	268.4	236.6	128.0	62.8	46.5
35°	549.0	502.4	457.6	413.5	370.3	329.5	290.4	254.5	128.0	57.9	41.6
37.5°	618.3	564.5	507.4	452.7	401.3	354.0	307.5	264.3	121.6	53.8	37.5
40°	693.3	628.9	562.0	497.5	435.6	376.8	323.8	274.1	115.8	48.9	33.4
42.5°	808.3	726.8	639.5	564.5	490.2	417.6	351.5	292.8	108.5	44.0	29.4
45°	959.2	855.6	752.9	661.5	566.9	478.0	399.7	327.1	106.8	40.0	25.3
47.5°	1120.7	998.4	877.6	761.0	650.1	546.5	452.7	365.4	106.8	35.9	22.0
50°	1281.4	1128.1	999.2	863.8	739.0	616.6	504.9	405.4	107.7	32.6	17.9
52.5°	1426.6	1262.7	1118.3	961.7	823.8	681.9	560.3	444.5	106.0	28.5	14.7
55°	1628.1	1435.6	1268.4	1095.4	933.9	774.1	636.2	503.2	106.8	25.3	12.2
57.5°	1999.2	1773.2	1571.8	1345.0	1159.0	952.7	785.5	624.0	116.6	21.2	9.0
60°	2531.8	2238.2	1955.2	1678.6	1442.1	1196.6	979.6	789.6	137.1	17.1	6.5
62.5°	2889.9	2505.7	2168.0	1863.0	1588.1	1331.2	1094.6	878.4	150.9	13.9	4.1
63°	2926.6	2529.4	2190.0	1875.2	1594.6	1337.7	1099.5	885.0	151.7	13.0	4.1
65°	2995.9	2570.1	2202.3	1877.6	1588.1	1328.7	1096.2	884.2	153.3	10.6	3.3
67.5°	2916.8	2507.3	2131.3	1807.5	1531.0	1275.7	1055.5	851.5	152.5	7.3	2.4
70°	2608.5	2269.2	1938.8	1637.0	1385.8	1155.0	960.9	776.5	140.3	4.9	1.6
72.5°	1915.2	1684.3	1428.2	1210.5	1044.0	867.0	739.8	583.2	108.5	3.3	0.8
75°	567.7	517.1	434.7	383.4	338.5	279.8	248.8	194.1	55.5	1.6	0.0
77.5°	113.4	102.8	92.2	84.0	79.1	67.7	64.4	53.0	22.8	0.8	0.0
80°	59.5	48.9	41.6	36.7	31.8	26.1	22.0	17.9	4.1	0.0	0.0
82.5°	57.1	38.3	27.7	22.8	19.6	15.5	12.2	9.0	2.4	0.0	0.0
85°	21.2	16.3	12.2	9.8	8.2	7.3	5.7	4.9	0.0	0.0	0.0
87.5°	3.3	2.4	2.4	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	172.1	172.1	172.1	172.1	172.1	172.1	172.1
2.5°	146.0	139.5	136.2	132.2	132.2	131.3	132.9
5°	121.6	112.6	106.0	101.1	101.9	99.5	100.4
7.5°	102.8	93.8	88.1	84.8	84.0	83.2	83.2
10°	88.9	80.7	75.8	73.4	72.6	72.6	72.6
12.5°	79.1	71.0	66.9	65.2	65.2	64.4	64.4
15°	71.0	64.4	60.4	58.7	58.7	57.9	58.7
17.5°	64.4	57.9	54.6	53.0	53.0	52.2	52.2
20°	58.7	53.0	49.8	47.3	47.3	46.5	47.3
22.5°	53.8	48.1	44.0	42.4	41.6	40.8	41.6
25°	48.9	43.2	39.1	36.7	35.9	35.9	35.1
27.5°	44.9	39.1	34.3	31.8	31.0	31.0	30.2
30°	40.8	34.3	29.4	26.9	26.1	26.1	26.1
32.5°	36.7	29.4	25.3	22.8	22.0	22.0	22.0
35°	32.6	25.3	21.2	18.8	17.9	17.9	17.9
37.5°	27.7	21.2	16.3	14.7	13.9	13.0	13.0
40°	23.7	16.3	12.2	10.6	9.0	9.0	9.0
42.5°	19.6	13.0	9.0	6.5	5.7	4.9	5.7
45°	16.3	9.8	5.7	3.3	2.4	2.4	2.4
47.5°	13.0	6.5	2.4	0.8	0.8	0.8	0.8
50°	9.8	4.1	0.8	0.0	0.0	0.8	0.8
52.5°	7.3	2.4	0.0	0.0	0.0	0.0	0.0
55°	4.1	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)