

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: LUMARK

Report Number: P511369

Luminaire Tested: **WPMLED15S-60W_SWITCH-4000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (EVERFINE)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLED15S-60W_SWITCH-4000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7806 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.13m x L: 0.26m x H: 0.9m)
IES Classification: Type IV - Short
BUG Rating: B1 - U4 - G4

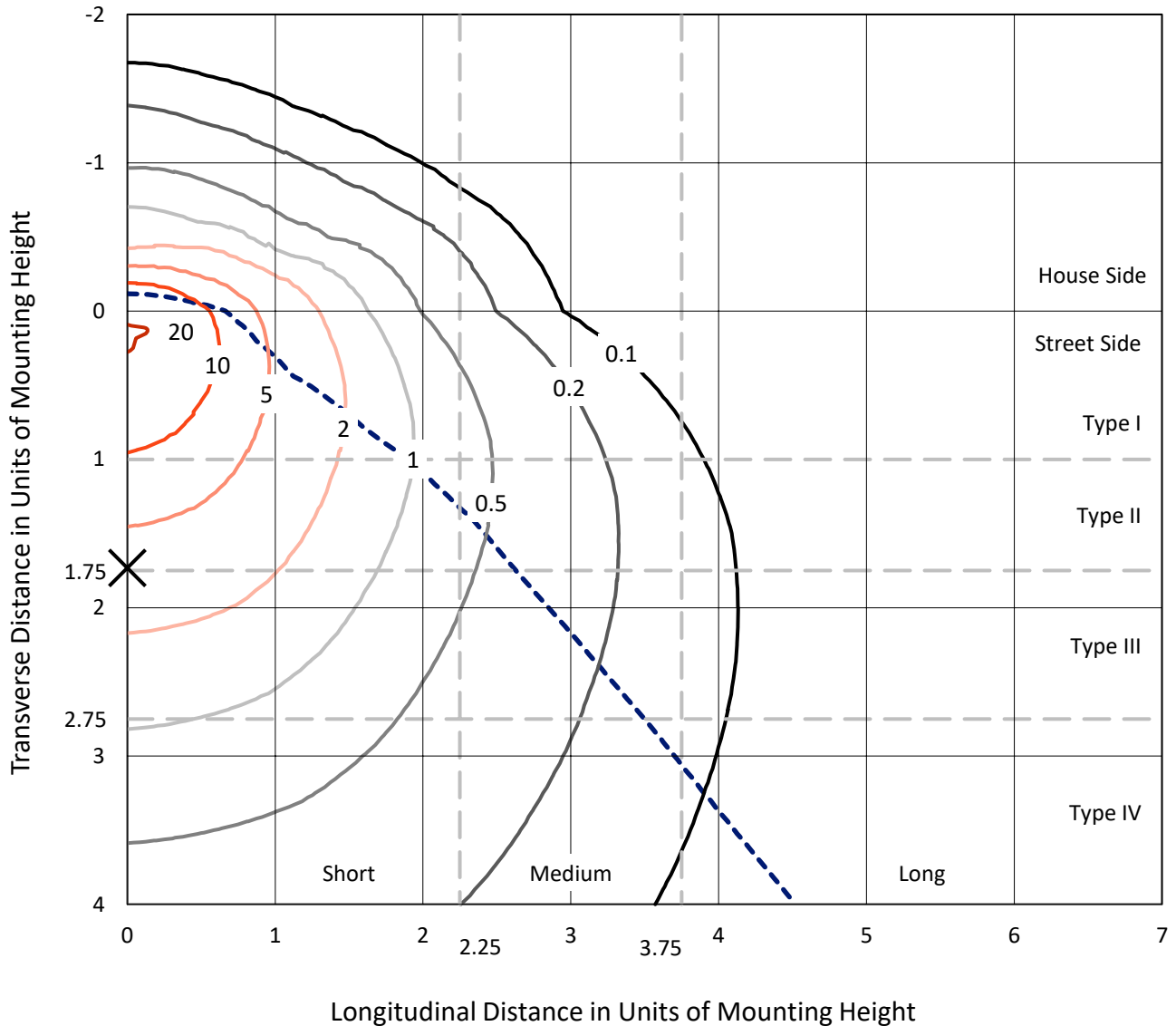
Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

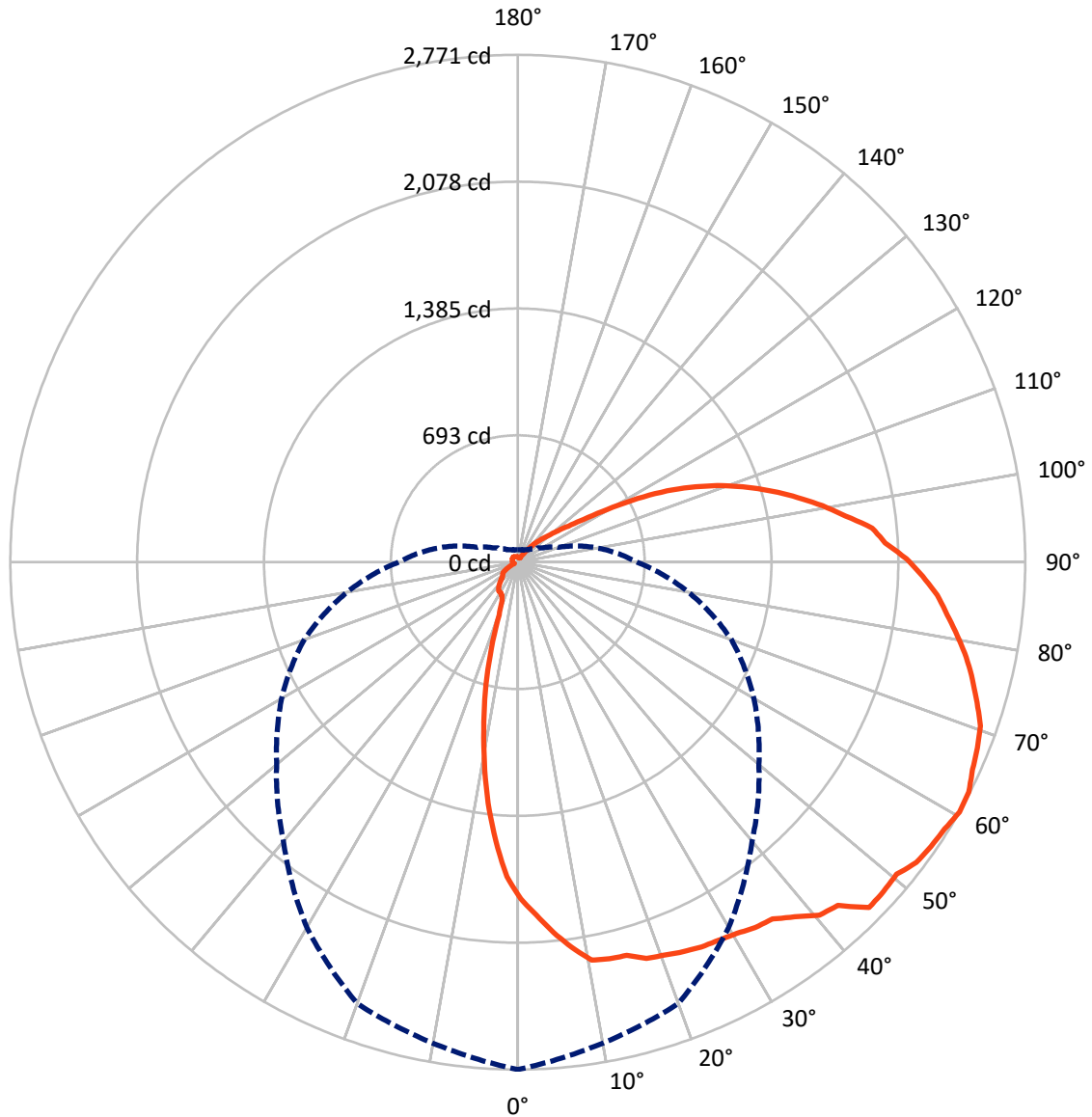
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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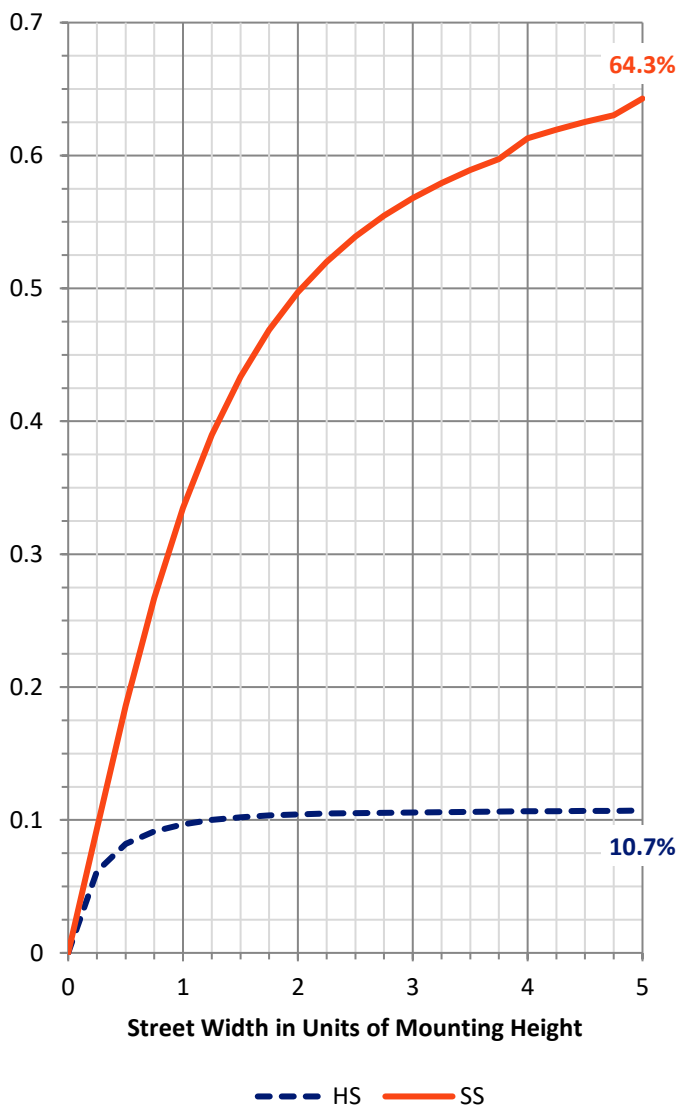
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	854.1	105.2	959.3
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	5546.2	1300.5	6846.7
	% Fixture	71.1	16.7	87.7
Total	Lumens	6400.3	1405.7	7806.0
	% Fixture	82.0	18.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	2.2
10°-20°	446.1	5.7
20°-30°	623.0	8.0
30°-40°	758.7	9.7
40°-50°	868.0	11.1
50°-60°	941.5	12.1
60°-70°	958.3	12.3
70°-80°	883.7	11.3
80°-90°	751.6	9.6
90°-100°	584.6	7.5
100°-110°	402.9	5.2
110°-120°	223.5	2.9
120°-130°	99.5	1.3
130°-140°	48.5	0.6
140°-150°	22.9	0.3
150°-160°	13.2	0.2
160°-170°	8.0	0.1
170°-180°	2.7	0.0
0°-90°	6400.3	82.0
0°-180°	7806.0	100.0

Coefficient of Utilization



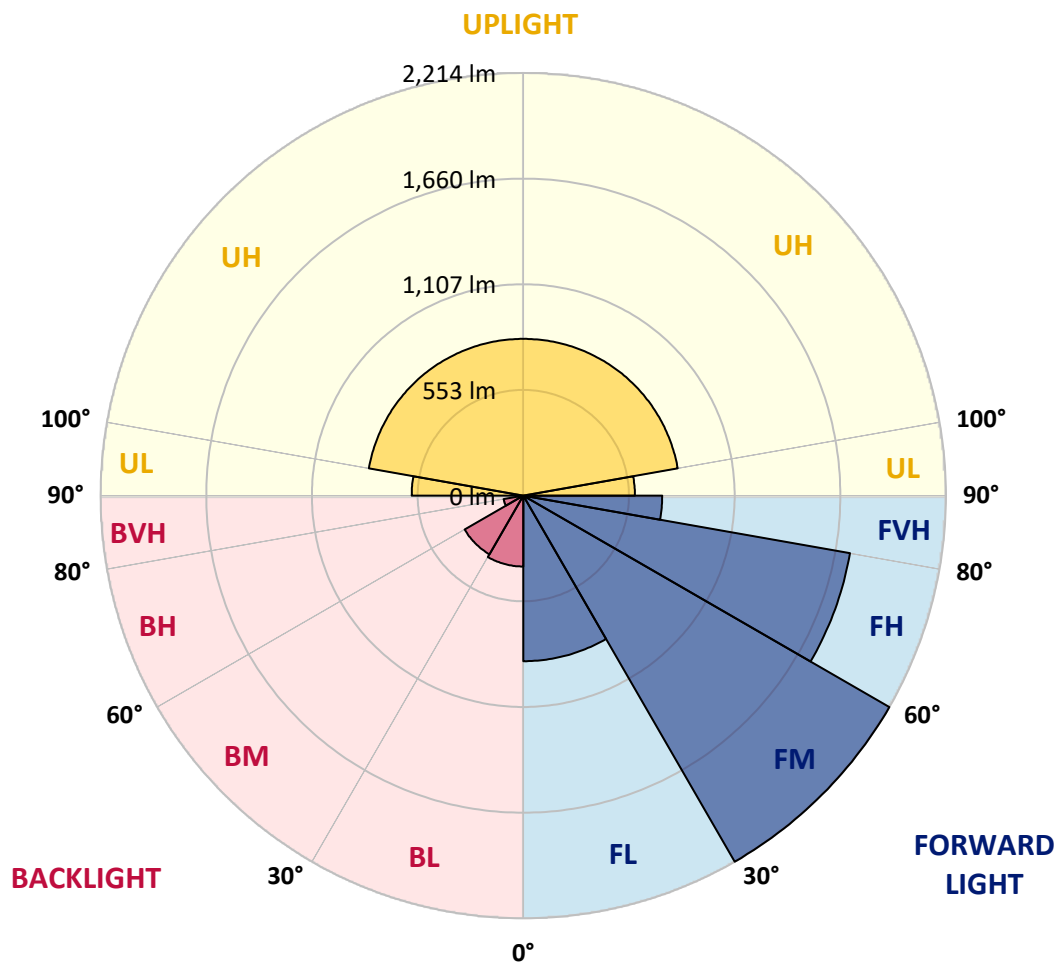
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.1	11.1			
FM	(30°-60°)	2213.9	28.4			
FH	(60°-80°)	1737.5	22.3			G1/1800
FVH	(80°-90°)	727.7	9.3			G4/750
BL	(0°-30°)	371.3	4.8	B1/500		
BM	(30°-60°)	354.4	4.5	B1/1000		
BH	(60°-80°)	104.5	1.3	B0/110		G0/110
BVH	(80°-90°)	23.9	0.3			G1/100
UL	(90°-100°)	584.6	7.5		U4/1000	
UH	(100°-180°)	821.1	10.5		U4/1000	

BUG Rating: B1-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9
2.5°	1929.0	1921.6	1914.3	1911.7	1910.6	1905.0	1894.9	1878.9	1845.1	1811.3	1785.7
5°	2030.8	2022.5	2014.1	2005.7	1997.3	1972.9	1932.5	1892.7	1854.7	1816.7	1780.6
7.5°	2124.3	2112.9	2101.5	2071.9	2036.2	2006.0	1981.3	1946.2	1880.2	1814.1	1739.9
10°	2209.7	2197.9	2186.2	2163.9	2138.2	2090.9	2022.2	1949.4	1864.0	1778.6	1683.6
12.5°	2221.6	2200.0	2178.4	2173.1	2173.2	2134.5	2057.0	1974.5	1877.3	1780.0	1645.5
15°	2228.2	2196.2	2164.2	2146.5	2133.5	2101.3	2049.7	1982.7	1869.6	1756.4	1588.6
17.5°	2274.7	2231.1	2187.6	2166.7	2153.3	2120.1	2066.9	1993.1	1857.3	1721.6	1526.9
20°	2290.3	2265.4	2240.6	2203.0	2161.2	2111.1	2052.7	1971.4	1821.6	1671.7	1449.8
22.5°	2310.7	2280.1	2249.6	2204.4	2154.3	2098.5	2037.0	1950.0	1786.5	1623.0	1371.0
25°	2328.2	2304.6	2280.9	2223.5	2154.8	2083.0	2008.3	1911.1	1746.2	1581.3	1299.4
27.5°	2337.7	2313.1	2288.5	2215.2	2125.7	2040.3	1959.0	1856.0	1687.9	1519.8	1217.0
30°	2352.9	2319.2	2285.4	2197.7	2092.0	1998.1	1916.0	1812.2	1643.3	1474.5	1146.4
32.5°	2378.8	2335.9	2293.1	2195.6	2079.8	1970.5	1867.5	1748.3	1580.9	1413.5	1083.9
35°	2393.2	2347.7	2302.3	2199.0	2076.5	1958.1	1843.9	1711.7	1525.7	1339.7	1003.2
37.5°	2456.9	2391.3	2325.7	2198.0	2049.5	1908.0	1773.5	1627.8	1448.5	1269.2	925.9
40°	2534.6	2455.5	2376.3	2218.9	2035.5	1870.7	1724.6	1568.9	1384.1	1199.3	851.7
42.5°	2562.5	2492.4	2422.4	2250.8	2045.5	1854.3	1677.3	1499.2	1317.9	1136.6	790.0
45°	2690.0	2585.8	2481.6	2284.0	2055.4	1847.1	1659.1	1469.2	1273.4	1077.6	730.5
47.5°	2687.1	2593.8	2500.5	2298.1	2059.5	1836.4	1629.1	1421.0	1210.5	1000.0	672.5
50°	2679.6	2596.5	2513.5	2304.3	2053.0	1811.4	1579.4	1353.0	1143.7	934.3	625.9
52.5°	2724.9	2620.4	2516.0	2299.1	2044.7	1803.1	1574.3	1343.2	1104.7	866.3	580.5
55°	2738.6	2635.4	2532.2	2300.6	2026.2	1775.2	1547.5	1312.1	1053.3	794.6	535.0
57.5°	2748.3	2648.4	2548.5	2298.5	1998.3	1738.9	1520.1	1285.8	1004.8	723.9	490.4
60°	2770.6	2667.4	2564.3	2303.4	1990.1	1718.5	1488.7	1242.3	946.3	650.2	444.0
62.5°	2763.5	2671.0	2578.4	2315.6	1996.1	1712.6	1465.2	1200.8	885.4	569.9	393.6
65°	2728.8	2645.3	2561.8	2300.6	1980.2	1696.0	1447.9	1175.3	829.5	483.6	339.0
67.5°	2705.9	2625.2	2544.5	2271.0	1933.2	1643.1	1400.7	1128.8	767.9	407.1	289.3
70°	2679.9	2593.0	2506.0	2229.0	1888.5	1597.9	1357.0	1082.7	707.9	333.2	240.6
72.5°	2622.1	2546.0	2469.9	2189.2	1840.2	1541.1	1292.0	1011.9	639.2	266.5	196.2
75°	2564.8	2484.0	2403.1	2127.0	1785.7	1487.6	1232.6	948.9	579.3	209.7	159.2
77.5°	2504.0	2422.2	2340.4	2067.5	1731.0	1429.6	1163.3	874.7	519.5	164.3	128.9
80°	2433.4	2347.1	2260.7	1990.1	1658.1	1357.0	1086.8	800.5	466.2	131.8	106.1
82.5°	2362.0	2273.4	2184.9	1916.2	1587.4	1284.3	1006.9	722.2	415.8	109.4	89.9
85°	2297.5	2211.4	2125.3	1854.5	1522.0	1212.4	925.5	641.7	367.0	92.4	77.5
87.5°	2212.2	2121.0	2029.9	1764.4	1440.8	1134.4	845.3	567.1	321.7	76.4	66.7
90°	2121.8	2030.1	1938.4	1678.5	1362.5	1059.8	770.5	499.1	281.4	63.7	58.1
92.5°	2009.1	1921.5	1834.0	1583.8	1279.4	981.4	689.6	424.9	240.9	57.0	53.3
95°	1944.2	1841.8	1739.3	1489.8	1191.3	899.3	613.9	361.3	207.3	53.3	50.4
97.5°	1808.2	1719.5	1630.9	1392.1	1103.2	820.7	544.5	305.6	178.5	51.4	48.6
100°	1691.5	1598.4	1505.4	1279.0	1008.2	742.1	480.8	258.9	155.0	51.1	47.8
102.5°	1567.9	1480.8	1393.7	1178.2	920.0	668.2	423.0	218.2	134.8	51.4	47.3
105°	1446.7	1358.4	1270.0	1065.8	823.0	590.0	367.0	183.3	117.6	51.8	47.0
107.5°	1320.6	1235.2	1149.8	956.9	728.1	514.9	317.2	156.0	103.9	51.8	46.3
110°	1193.7	1105.0	1016.3	834.9	622.5	433.8	268.8	134.7	93.1	51.5	45.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1054.6	965.9	877.2	711.0	518.9	357.2	225.9	118.9	84.8	50.6	44.4
115°	904.3	819.8	735.2	588.4	420.8	286.6	185.7	103.3	76.3	49.3	43.0
117.5°	739.9	668.7	597.6	479.7	346.3	238.0	154.8	87.4	67.6	47.7	41.5
120°	565.2	513.6	462.0	377.4	281.8	199.5	130.4	75.0	60.3	45.6	39.7
122.5°	427.5	396.4	365.3	305.8	236.7	172.6	113.6	66.4	54.6	42.8	37.8
125°	338.7	321.4	304.2	258.1	202.4	149.5	99.2	59.2	49.7	40.3	36.0
127.5°	278.2	267.3	256.5	219.0	172.7	128.3	85.7	52.0	45.0	37.9	34.4
130°	230.0	222.9	215.9	183.3	142.2	104.9	71.2	44.9	40.3	35.7	33.0
132.5°	193.4	188.8	184.3	154.6	116.6	84.6	58.7	38.7	36.1	33.6	31.7
135°	164.9	159.5	154.1	128.1	95.1	68.8	49.2	34.2	33.0	31.8	30.6
137.5°	133.8	127.9	122.0	101.5	76.3	56.3	41.8	30.8	30.5	30.2	29.5
140°	104.5	99.8	95.0	79.6	60.6	46.0	35.8	28.3	28.4	28.6	28.3
142.5°	77.5	75.2	72.8	61.6	47.4	37.4	31.7	27.3	27.0	26.8	27.1
145°	56.7	55.1	53.5	46.3	37.4	31.7	29.3	27.2	26.0	24.9	26.0
147.5°	45.0	43.7	42.4	37.4	31.1	27.9	27.6	27.1	25.6	24.1	25.6
150°	37.1	35.8	34.5	31.0	26.7	25.2	26.6	27.3	25.8	24.4	25.8
152.5°	31.4	30.4	29.4	27.6	25.6	24.9	25.6	26.0	25.4	24.7	26.1
155°	26.9	25.9	25.0	24.7	24.8	24.8	24.9	25.0	25.0	25.0	26.3
157.5°	23.7	23.8	23.9	25.0	26.4	26.6	25.6	25.0	25.1	25.3	26.6
160°	24.5	24.8	25.1	25.9	27.0	27.0	26.0	25.2	25.4	25.6	26.8
162.5°	27.9	27.8	27.7	27.5	27.4	26.9	26.1	25.5	25.7	25.9	27.0
165°	28.8	28.4	28.0	27.2	26.3	25.8	25.7	25.7	25.9	26.1	27.1
167.5°	28.1	27.5	26.9	26.4	26.0	25.8	25.9	26.0	26.2	26.3	27.2
170°	26.4	26.2	26.1	26.1	26.1	26.2	26.3	26.3	26.4	26.6	27.4
172.5°	26.9	26.8	26.6	26.6	26.6	26.6	26.6	26.6	26.7	26.7	27.4
175°	27.5	27.3	27.2	27.2	27.1	27.1	27.0	26.9	26.9	26.9	27.5
177.5°	28.1	28.0	27.8	27.7	27.7	27.5	27.3	27.2	27.1	27.1	27.6
180°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9
2.5°	1760.1	1745.5	1734.6	1722.9	1710.2	1702.7	1710.3	1717.8
5°	1744.5	1699.2	1650.9	1607.3	1568.7	1538.2	1532.0	1525.9
7.5°	1665.7	1590.4	1514.9	1452.8	1404.3	1363.2	1344.2	1325.3
10°	1588.6	1487.7	1384.7	1296.0	1221.6	1158.9	1131.9	1104.9
12.5°	1511.0	1376.9	1243.0	1125.6	1024.9	943.0	917.2	891.5
15°	1420.8	1253.9	1087.2	949.1	839.5	750.0	720.5	690.9
17.5°	1332.2	1138.8	945.7	789.2	669.3	569.3	529.3	489.2
20°	1228.0	1015.8	806.8	634.2	497.8	385.5	345.1	304.7
22.5°	1119.0	889.4	667.4	492.7	365.6	265.6	247.3	228.9
25°	1017.5	771.3	537.0	376.6	290.1	223.1	215.0	206.8
27.5°	914.1	666.3	436.8	296.9	246.6	207.6	202.3	197.0
30°	818.3	579.6	370.8	251.3	221.3	197.9	194.3	190.8
32.5°	754.3	527.7	335.5	229.0	208.0	192.1	191.2	190.2
35°	666.8	461.3	299.5	211.6	197.8	187.2	186.4	185.7
37.5°	582.6	399.2	269.1	198.5	187.4	178.4	175.7	173.1
40°	504.1	342.2	242.2	186.4	174.8	165.1	161.0	156.9
42.5°	443.5	298.3	220.3	174.6	161.2	150.1	145.5	140.9
45°	383.3	254.4	198.1	162.9	148.7	136.7	131.3	125.9
47.5°	344.9	227.9	181.1	150.4	135.6	123.4	118.4	113.4
50°	317.5	208.5	166.1	137.5	122.7	111.3	109.9	108.5
52.5°	294.7	192.8	152.2	124.8	110.6	100.6	103.0	105.4
55°	275.5	179.9	139.1	112.1	99.2	90.3	93.7	97.2
57.5°	256.8	167.6	126.5	100.2	88.7	80.4	81.9	83.3
60°	237.7	155.5	114.6	88.9	78.6	70.5	69.4	68.4
62.5°	217.2	143.0	102.9	77.9	68.0	60.0	57.4	54.8
65°	194.5	129.5	91.0	66.2	55.2	46.2	43.7	41.1
67.5°	171.6	115.1	79.1	53.7	39.2	27.4	24.2	20.9
70°	147.9	100.1	67.2	44.2	31.0	21.2	21.4	21.5
72.5°	125.9	86.1	56.3	37.0	28.3	21.8	22.0	22.2
75°	108.7	76.6	50.5	34.2	27.4	22.4	22.7	23.0
77.5°	93.4	68.0	46.0	32.3	27.0	23.1	23.4	23.7
80°	80.4	60.0	41.4	30.2	26.5	23.7	24.1	24.4
82.5°	70.5	53.8	38.0	28.8	26.2	24.4	24.8	25.2
85°	62.6	49.0	35.7	28.2	26.4	25.1	25.5	25.9
87.5°	57.0	45.8	34.2	27.8	26.6	25.8	26.2	26.7
90°	52.5	43.4	33.1	27.6	26.9	26.5	26.9	27.4
92.5°	49.7	41.8	32.5	27.7	27.3	27.1	27.6	28.2
95°	47.5	40.4	32.0	27.7	27.6	27.7	28.3	28.8
97.5°	45.8	39.3	31.6	27.8	28.0	28.3	28.9	29.5
100°	44.5	38.4	31.3	28.0	28.4	28.9	29.5	30.1
102.5°	43.2	37.4	31.0	28.1	28.8	29.4	30.0	30.6
105°	42.1	36.6	30.8	28.3	29.2	30.0	30.6	31.2
107.5°	40.8	35.7	30.7	28.6	29.6	30.5	31.1	31.7
110°	39.5	34.8	30.5	28.9	30.1	31.1	31.7	32.3



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	38.2	34.0	30.4	29.3	30.5	31.6	32.2	32.8
115°	36.7	33.1	30.3	29.5	30.9	32.1	32.7	33.3
117.5°	35.2	32.2	30.2	29.9	31.3	32.5	33.2	33.8
120°	33.9	31.4	30.1	30.2	31.7	33.0	33.6	34.2
122.5°	32.7	30.9	30.1	30.5	32.1	33.5	34.0	34.6
125°	31.7	30.4	30.1	30.8	32.5	33.8	34.4	34.9
127.5°	30.9	30.1	30.2	31.1	32.8	34.2	34.7	35.2
130°	30.2	29.9	30.3	31.4	33.1	34.5	35.0	35.5
132.5°	29.7	29.8	30.4	31.6	33.3	34.7	35.2	35.7
135°	29.3	29.7	30.6	31.9	33.5	34.9	35.4	35.9
137.5°	28.8	29.5	30.7	32.1	33.7	35.0	35.5	36.0
140°	28.1	29.2	30.7	32.2	33.8	35.1	35.5	36.0
142.5°	27.3	28.8	30.7	32.3	33.8	35.0	35.5	36.0
145°	27.0	28.7	30.7	32.4	33.8	34.9	35.4	35.9
147.5°	27.1	28.9	30.8	32.4	33.7	34.8	35.2	35.6
150°	27.3	29.0	30.8	32.3	33.5	34.6	35.0	35.4
152.5°	27.5	29.1	30.8	32.2	33.3	34.2	34.6	35.0
155°	27.7	29.2	30.7	32.0	33.0	33.9	34.2	34.5
157.5°	27.8	29.2	30.6	31.8	32.7	33.5	33.8	34.1
160°	27.9	29.2	30.5	31.6	32.4	33.1	33.4	33.6
162.5°	28.0	29.2	30.4	31.3	32.1	32.7	32.9	33.1
165°	28.1	29.1	30.2	31.1	31.7	32.2	32.4	32.5
167.5°	28.1	29.1	30.0	30.7	31.3	31.7	31.8	31.9
170°	28.2	29.0	29.8	30.4	30.8	31.2	31.3	31.3
172.5°	28.2	28.9	29.5	30.1	30.4	30.7	30.7	30.7
175°	28.1	28.7	29.3	29.7	30.0	30.2	30.1	30.1
177.5°	28.1	28.5	29.0	29.3	29.5	29.7	29.6	29.4
180°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9

(END OF REPORT)