

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: P129500

Luminaire Tested: **VERD-A016-E-U-T3-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P129500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25189)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-A016-E-U-T3-AP  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K LED AT 60% STANDARD LUMENS AND TYPE III OPTICS, GREY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3775 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

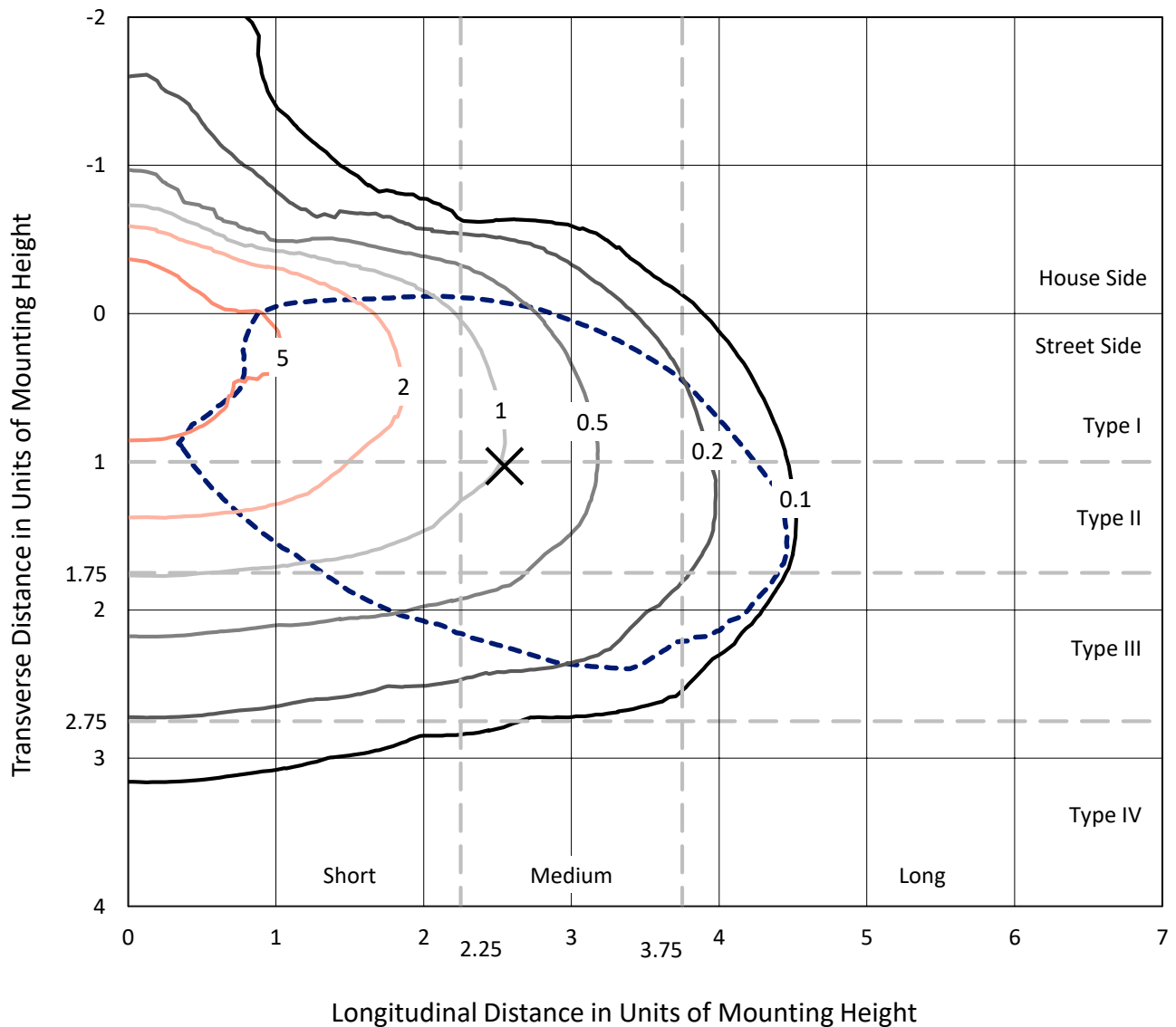
Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

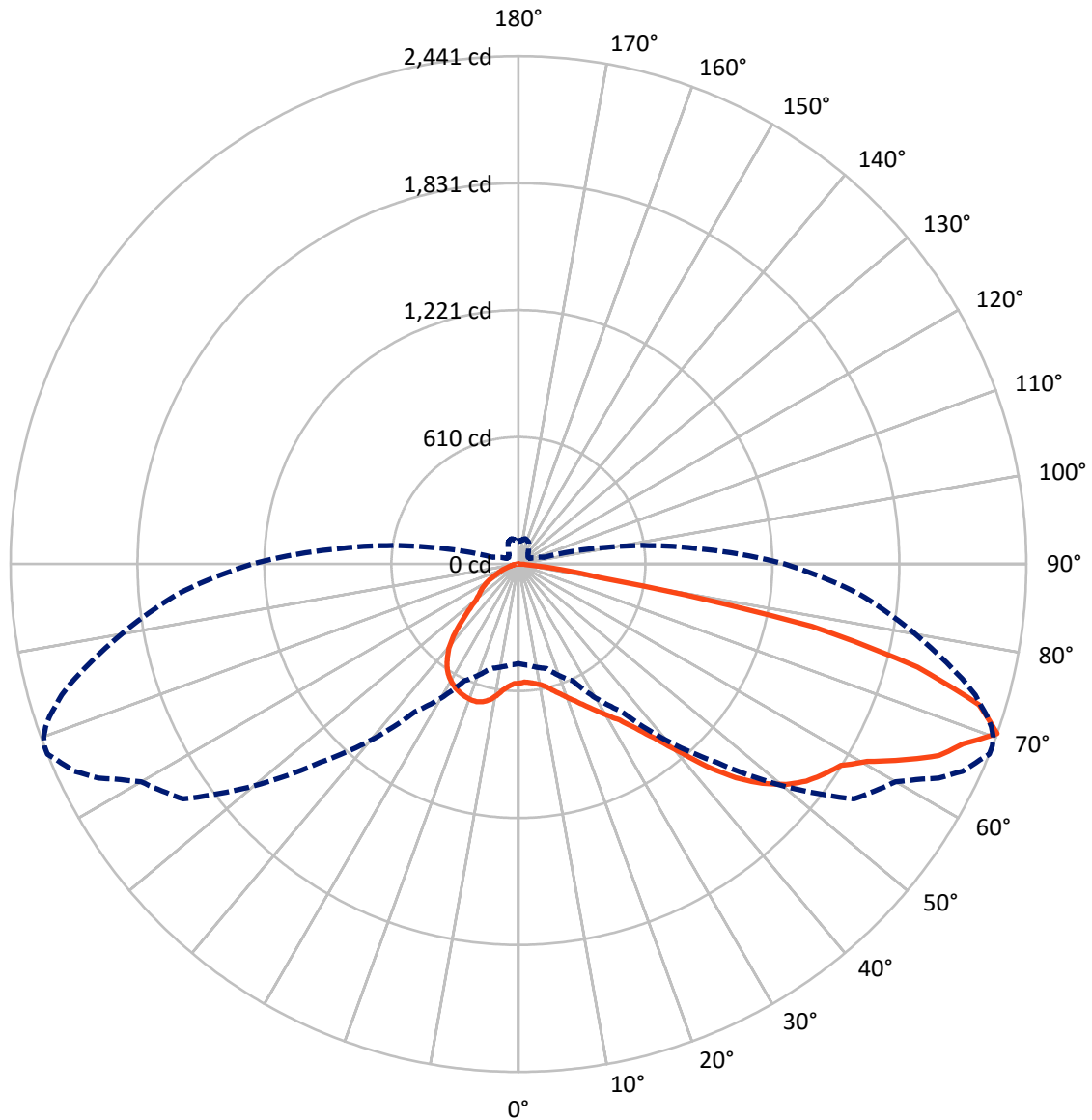
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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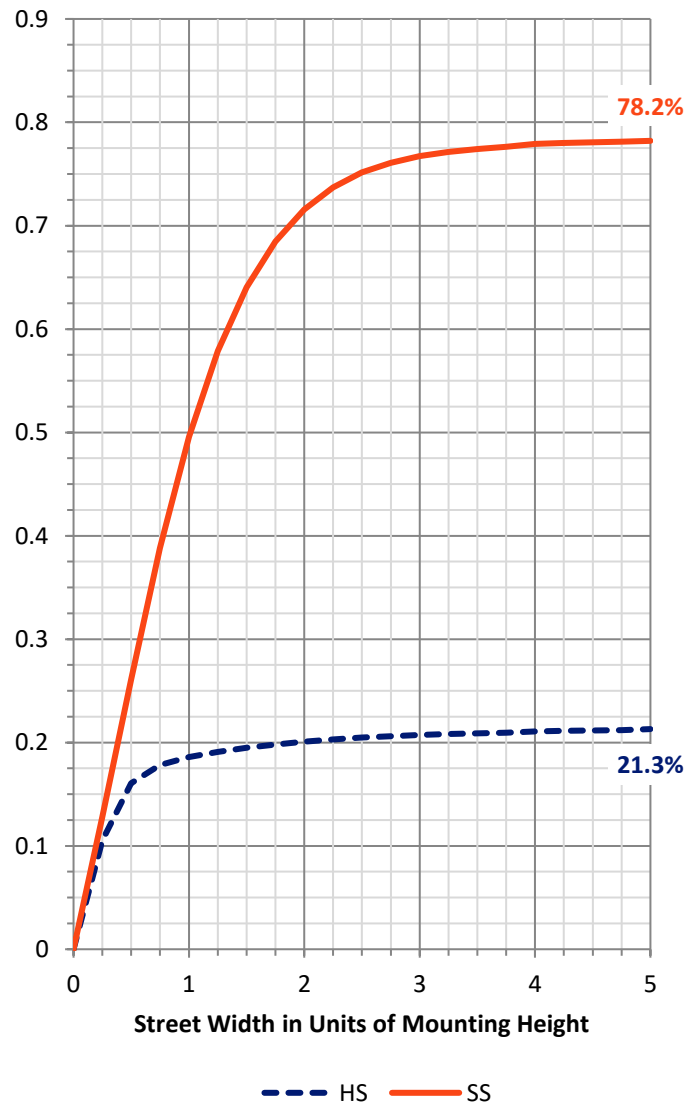
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	820.6	0.0	820.6
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	2954.4	0.0	2954.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	3775.0	0.0	3775.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	1.5
10°-20°	190.3	5.0
20°-30°	321.2	8.5
30°-40°	456.4	12.1
40°-50°	626.4	16.6
50°-60°	755.7	20.0
60°-70°	815.0	21.6
70°-80°	509.3	13.5
80°-90°	42.2	1.1
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°	3775.0	100.0
0°-180°	3775.0	100.0

**Coefficient of Utilization**



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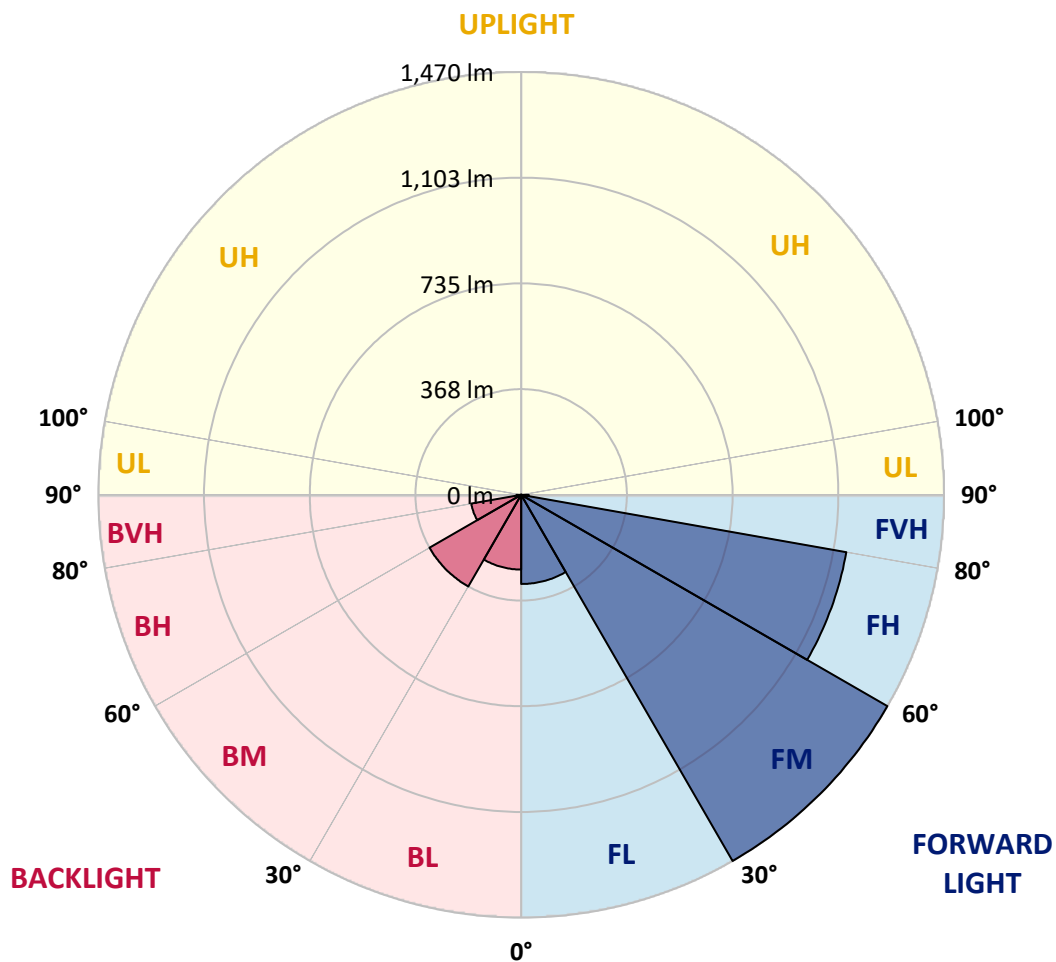
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	310.1	8.2			
FM	(30°-60°)	1470.3	38.9			
FH	(60°-80°)	1148.1	30.4			G1/1800
FVH	(80°-90°)	26.0	0.7			G1/100
BL	(0°-30°)	259.9	6.9	B1/500		
BM	(30°-60°)	368.2	9.8	B1/1000		
BH	(60°-80°)	176.2	4.7	B1/500		G1/500
BVH	(80°-90°)	16.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
2.5°	577.5	577.1	578.4	572.1	570.9	571.3	572.1	568.8	568.4	568.4	568.0
5°	587.1	586.2	587.5	581.3	578.4	577.5	578.0	574.6	574.2	573.8	573.0
7.5°	604.1	602.0	602.8	596.6	591.6	588.7	587.1	584.2	584.2	583.3	582.5
10°	622.3	621.9	621.9	615.3	609.5	604.1	597.9	595.4	595.8	595.0	594.5
12.5°	644.7	644.7	646.0	638.9	636.5	629.0	617.4	614.9	614.0	613.2	612.0
15°	675.9	675.0	677.5	669.2	666.7	658.0	644.3	638.9	636.9	637.3	636.5
17.5°	716.1	713.6	711.5	701.6	698.7	685.4	670.5	665.1	663.0	663.4	662.2
20°	758.0	757.6	753.5	738.1	731.5	714.0	699.9	691.2	690.0	687.9	687.9
22.5°	806.6	808.2	802.0	784.2	771.3	749.3	730.6	721.5	719.0	718.6	716.9
25°	862.2	862.6	858.0	840.6	819.8	790.4	765.1	756.8	753.9	753.0	751.8
27.5°	921.9	925.2	918.2	904.1	877.1	838.9	803.7	797.8	797.0	794.5	793.3
30°	985.0	985.4	980.8	971.7	941.0	893.7	846.0	843.1	843.9	841.4	839.7
32.5°	1041.0	1042.6	1046.4	1039.7	1010.3	957.2	894.9	897.0	897.4	895.8	894.9
35°	1083.7	1087.4	1102.8	1108.6	1085.0	1032.3	954.3	963.4	963.8	958.8	959.7
37.5°	1124.8	1125.6	1144.3	1157.6	1149.7	1107.8	1032.7	1043.9	1044.7	1039.7	1038.5
40°	1151.8	1155.9	1177.9	1191.2	1200.3	1176.6	1115.7	1135.2	1138.1	1133.9	1140.5
42.5°	1133.9	1135.6	1185.4	1223.5	1242.2	1249.7	1204.0	1245.9	1252.2	1250.5	1258.4
45°	1112.8	1113.6	1162.5	1235.6	1277.9	1319.8	1311.1	1374.1	1381.2	1380.4	1387.8
47.5°	1082.5	1087.4	1139.7	1228.5	1310.7	1384.5	1431.8	1475.4	1482.0	1483.7	1492.4
50°	1050.1	1058.4	1117.7	1217.7	1338.0	1452.6	1515.6	1546.3	1554.2	1560.4	1572.0
52.5°	1011.9	1019.4	1084.5	1198.2	1350.9	1526.0	1579.1	1611.9	1621.4	1628.1	1640.1
55°	963.4	972.5	1038.9	1165.0	1351.3	1568.7	1635.1	1664.1	1674.5	1684.5	1698.2
57.5°	910.7	921.5	985.8	1113.6	1336.0	1572.9	1669.5	1696.5	1707.3	1717.7	1732.6
60°	847.6	859.7	925.2	1047.6	1301.1	1562.1	1682.8	1737.2	1761.6	1779.9	1805.2
62.5°	781.2	790.0	846.0	975.0	1241.8	1566.6	1779.1	1867.0	1882.8	1908.1	1931.3
65°	697.9	707.8	754.7	878.3	1143.5	1579.9	1911.8	2016.4	2042.5	2060.0	2086.9
67.5°	599.9	609.5	644.7	766.7	1029.4	1511.1	1977.8	2081.9	2112.2	2143.8	2183.6
70°	478.4	487.9	519.4	620.7	865.5	1347.6	1967.9	2093.6	2145.8	2200.2	2266.2
72.5°	359.7	366.4	386.7	442.3	615.7	1092.0	1865.8	2014.3	2081.1	2137.5	2218.9
75°	241.5	245.2	271.8	310.3	361.0	709.1	1560.8	1679.9	1764.6	1813.1	1873.3
77.5°	85.5	82.6	105.0	134.0	185.5	251.4	993.7	1111.5	1220.6	1241.4	1251.7
80°	26.1	27.4	49.4	61.4	88.0	130.7	265.9	313.2	347.7	346.0	372.6
82.5°	20.3	21.6	34.9	37.8	34.4	49.4	127.4	141.1	148.9	147.3	149.4
85°	12.4	13.3	16.2	15.8	15.8	22.0	43.6	32.8	38.2	34.9	36.9
87.5°	7.1	7.1	7.1	7.1	5.8	5.0	9.1	4.6	4.6	4.1	4.1
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):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
2.5°	568.0	568.4	568.4	568.4	568.4	568.4	568.4	568.0	568.0	568.0	568.0
5°	572.6	572.6	572.6	572.6	572.6	572.6	572.1	571.7	571.3	571.3	571.3
7.5°	581.7	580.9	580.4	580.4	580.4	580.4	580.0	579.6	578.8	578.8	579.2
10°	593.3	592.5	592.1	590.4	590.0	589.6	589.6	589.2	588.7	589.2	589.6
12.5°	610.7	611.1	609.5	607.4	606.6	604.9	604.9	604.9	604.9	605.7	607.0
15°	634.4	634.8	633.1	631.9	631.1	628.6	627.7	628.6	629.4	630.2	631.1
17.5°	660.9	660.9	659.3	658.4	657.6	656.0	656.4	656.4	656.0	656.4	657.2
20°	687.5	687.1	687.1	687.1	687.1	685.8	687.1	687.1	686.2	685.0	685.0
22.5°	716.5	716.9	717.8	719.4	718.6	718.6	718.6	720.3	719.8	718.2	718.2
25°	752.2	753.5	755.1	756.8	756.4	757.6	757.6	759.3	758.4	758.8	761.3
27.5°	795.4	796.2	797.4	795.8	798.7	802.0	802.0	802.0	807.0	809.0	812.0
30°	842.7	842.2	843.5	841.8	844.7	847.6	850.5	855.5	860.9	863.0	868.4
32.5°	895.3	894.5	895.3	893.7	894.1	899.1	908.2	913.6	917.8	924.8	931.4
35°	963.4	963.0	964.6	967.5	968.8	972.9	986.6	988.7	999.9	1004.5	1013.2
37.5°	1046.4	1048.0	1052.6	1059.2	1060.5	1070.8	1078.7	1097.0	1107.4	1113.6	1120.6
40°	1147.6	1155.1	1164.6	1171.3	1180.4	1202.0	1218.1	1236.4	1250.9	1260.0	1272.1
42.5°	1270.8	1287.8	1299.5	1311.9	1331.8	1354.6	1380.4	1400.7	1418.1	1427.7	1444.3
45°	1399.4	1415.2	1429.7	1447.6	1465.8	1490.3	1514.4	1532.6	1546.7	1552.5	1557.1
47.5°	1501.5	1517.7	1533.9	1553.4	1575.8	1600.7	1620.6	1630.1	1634.7	1633.4	1631.4
50°	1584.1	1600.7	1621.0	1643.8	1665.8	1684.1	1694.4	1695.7	1695.7	1692.8	1689.0
52.5°	1655.0	1674.1	1696.5	1718.9	1733.4	1742.1	1747.1	1747.5	1747.5	1744.6	1740.5
55°	1713.1	1736.3	1757.5	1772.4	1782.8	1785.7	1788.2	1787.8	1786.5	1783.2	1779.1
57.5°	1751.3	1771.2	1794.4	1811.4	1827.2	1832.2	1840.1	1847.5	1857.1	1859.1	1866.6
60°	1824.3	1856.2	1877.0	1903.5	1926.4	1939.2	1955.0	1964.9	1974.5	1972.8	1970.3
62.5°	1948.8	1984.4	2012.7	2049.2	2072.8	2082.4	2092.3	2092.7	2091.9	2081.9	2073.2
65°	2115.1	2152.1	2180.7	2207.2	2220.9	2214.3	2211.4	2196.9	2182.4	2161.2	2142.1
67.5°	2221.8	2255.4	2280.3	2296.0	2306.0	2299.8	2290.6	2271.6	2248.7	2221.8	2195.6
70°	2309.7	2355.8	2382.7	2410.1	2441.2	2440.4	2428.8	2403.9	2368.6	2324.7	2284.4
72.5°	2266.6	2300.2	2315.5	2321.8	2315.1	2304.7	2285.7	2250.8	2225.1	2172.0	2147.5
75°	1919.7	1960.4	1972.8	1985.7	1981.1	1981.5	1960.0	1930.1	1913.5	1861.6	1849.2
77.5°	1348.0	1355.1	1381.6	1425.6	1442.6	1467.5	1458.4	1431.4	1392.8	1343.0	1325.2
80°	363.0	382.1	386.7	404.9	396.2	418.6	416.1	395.0	382.1	365.9	370.1
82.5°	148.5	154.3	150.6	149.4	157.7	155.2	155.2	153.5	148.9	149.8	148.1
85°	33.2	36.9	36.5	33.6	32.4	38.2	35.7	36.5	33.2	32.8	34.9
87.5°	4.1	4.1	4.1	4.1	3.7	4.1	3.7	3.7	3.7	3.7	3.7
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):**

	75°	85°	90°	95°	105°	115°	125°	135°	145°	155°	165°
0°	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
2.5°	568.4	567.6	566.7	573.0	573.4	575.5	578.4	583.8	586.2	589.6	594.5
5°	572.1	573.0	572.1	579.2	584.6	591.2	598.3	608.2	615.3	626.9	637.7
7.5°	580.4	581.3	582.5	588.3	599.9	615.3	634.8	656.8	671.3	685.8	698.3
10°	590.8	592.1	594.1	599.9	625.2	649.3	671.7	687.9	697.9	714.5	721.1
12.5°	607.0	608.7	614.9	626.1	657.2	672.5	687.5	698.3	703.7	718.2	720.3
15°	630.2	636.9	648.5	659.3	679.6	686.2	692.5	695.4	694.5	702.8	699.9
17.5°	656.0	669.6	682.9	687.9	692.9	691.2	687.5	679.2	668.4	668.8	663.8
20°	684.6	706.2	710.7	709.1	699.1	688.7	670.9	649.7	629.0	626.9	614.5
22.5°	718.2	739.8	736.0	727.3	702.0	679.2	646.4	612.8	581.3	570.5	556.0
25°	763.0	775.0	765.1	748.5	706.2	667.6	616.5	566.7	521.1	496.2	477.5
27.5°	814.0	813.6	797.0	772.5	711.1	649.3	579.6	509.9	444.8	409.1	384.2
30°	871.7	854.3	831.0	797.8	713.2	625.2	534.0	444.8	363.4	318.6	304.5
32.5°	929.4	901.2	867.1	821.5	710.7	598.3	483.8	368.8	280.5	258.5	251.4
35°	1009.9	972.1	925.6	862.2	706.2	561.4	416.1	274.7	226.1	209.5	205.8
37.5°	1120.2	1085.0	1020.2	922.7	706.2	509.5	321.5	206.6	172.6	153.5	160.6
40°	1272.5	1251.3	1161.7	1022.3	710.3	446.0	217.8	150.6	113.7	111.2	135.7
42.5°	1442.6	1364.6	1257.6	1112.3	716.9	358.1	141.1	104.6	96.3	104.6	126.5
45°	1552.1	1422.7	1305.7	1148.0	721.1	254.7	102.1	95.8	91.7	99.6	120.3
47.5°	1623.1	1483.3	1349.7	1168.3	687.1	171.8	94.6	92.1	88.4	96.3	118.2
50°	1682.4	1534.3	1385.8	1170.0	603.3	128.2	92.9	88.4	85.9	93.4	116.6
52.5°	1733.4	1580.8	1421.0	1158.8	536.5	113.3	89.6	85.1	83.0	90.4	112.9
55°	1772.9	1629.3	1450.9	1127.3	480.0	111.2	87.1	81.3	80.1	90.4	112.9
57.5°	1864.5	1686.6	1461.7	1105.3	418.2	107.9	84.6	78.0	78.8	91.7	117.4
60°	1963.7	1717.3	1455.5	1097.0	353.5	102.1	81.3	75.1	78.4	97.9	145.2
62.5°	2057.1	1726.4	1460.0	1093.3	282.1	93.4	76.3	73.0	77.6	108.3	173.4
65°	2118.0	1737.2	1445.5	1072.1	209.1	83.8	70.9	72.2	78.8	129.4	145.6
67.5°	2164.9	1718.1	1390.3	996.2	157.2	74.7	63.9	68.0	80.9	119.1	126.1
70°	2231.3	1642.6	1279.5	856.8	124.5	63.9	56.4	64.3	83.8	115.8	125.7
72.5°	2087.3	1453.0	1056.3	647.7	93.4	52.3	46.5	60.2	85.9	116.6	125.3
75°	1779.5	1123.1	749.3	349.3	68.0	40.2	36.5	53.9	83.4	115.3	119.9
77.5°	1221.0	626.5	308.7	117.0	49.8	29.0	26.6	41.9	75.5	107.5	122.4
80°	326.9	156.8	115.3	79.2	34.9	21.2	19.5	27.0	60.6	94.6	117.0
82.5°	143.1	102.1	75.5	51.9	24.5	14.5	13.3	15.4	39.0	75.1	104.1
85°	31.1	22.8	18.3	14.1	10.0	7.5	7.1	9.1	15.4	44.0	76.3
87.5°	3.3	2.9	2.9	2.9	2.9	2.9	2.5	2.9	4.6	12.4	34.0
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):**

	175°	180°
0°	573.0	573.0
2.5°	601.6	602.0
5°	648.1	648.5
7.5°	707.0	709.1
10°	726.9	727.7
12.5°	724.8	724.8
15°	701.6	699.1
17.5°	665.1	661.8
20°	614.9	612.8
22.5°	548.9	545.6
25°	466.3	467.2
27.5°	377.1	370.5
30°	305.8	306.6
32.5°	261.4	263.0
35°	209.9	206.2
37.5°	167.6	164.7
40°	156.8	151.4
42.5°	139.4	137.7
45°	131.5	131.1
47.5°	131.9	132.8
50°	132.8	133.2
52.5°	124.9	124.5
55°	118.2	116.6
57.5°	127.8	126.5
60°	157.2	157.2
62.5°	158.5	153.1
65°	136.1	138.2
67.5°	117.0	115.8
70°	112.0	109.1
72.5°	105.0	101.6
75°	91.7	86.7
77.5°	87.5	78.4
80°	89.2	73.4
82.5°	88.8	64.7
85°	78.8	67.6
87.5°	47.7	46.1
90°	0.0	0.0

(END OF REPORT)