

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: P226225

Luminaire Tested: **MLN-B2-D-U-T4-7030-XX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29663)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MLN-B2-D-U-T4-7030-XX
Description: METROLINE ARCHITECTURAL LED LUMINAIRE
70 CRI, 3000K LEDS AND TYPE IV DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8264 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.75' x H: 0.17')
IES Classification: Type IV - Short - Cutoff
BUG Rating: B2 - U1 - G2

Input Watts (W): 71
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

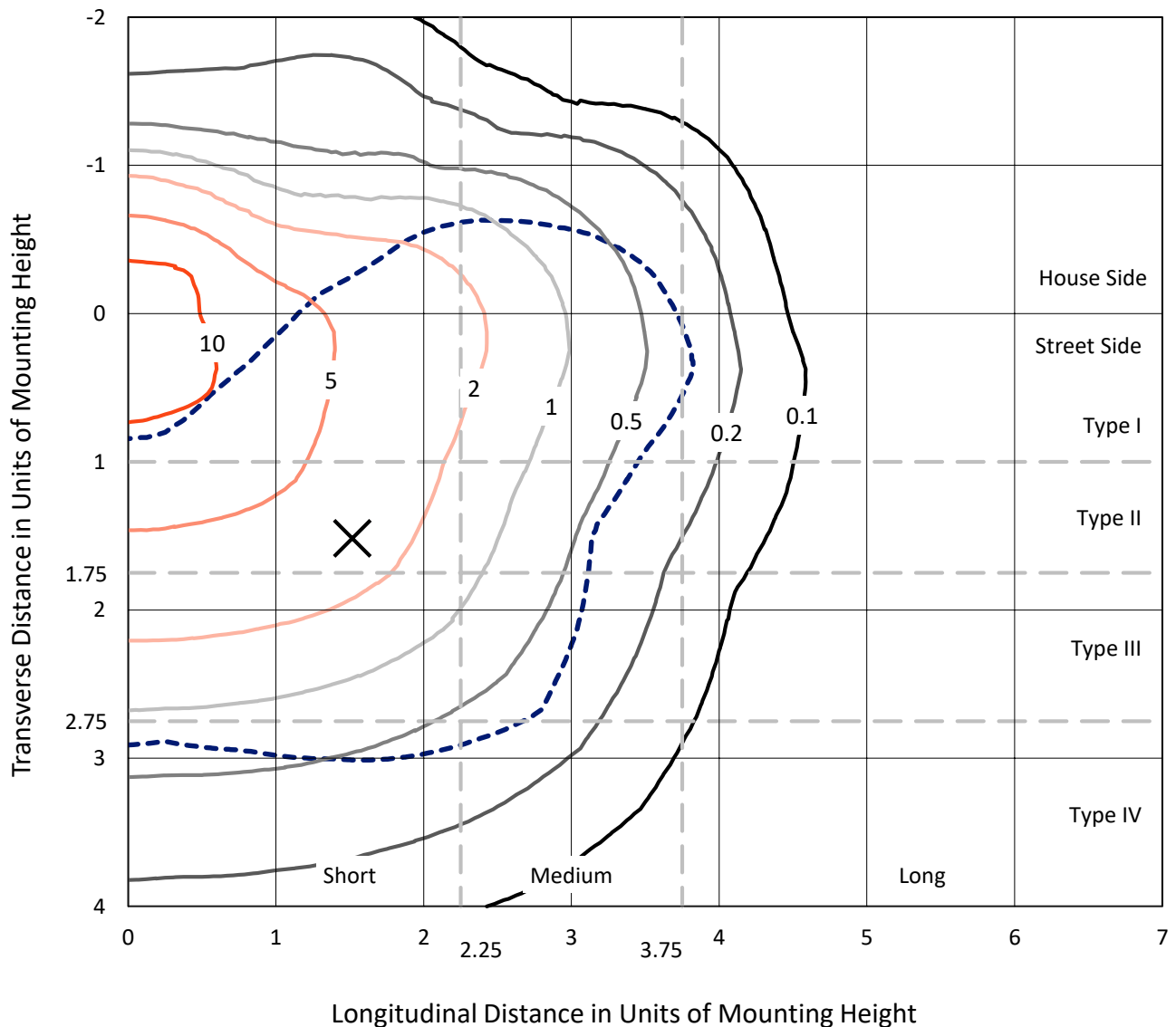


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

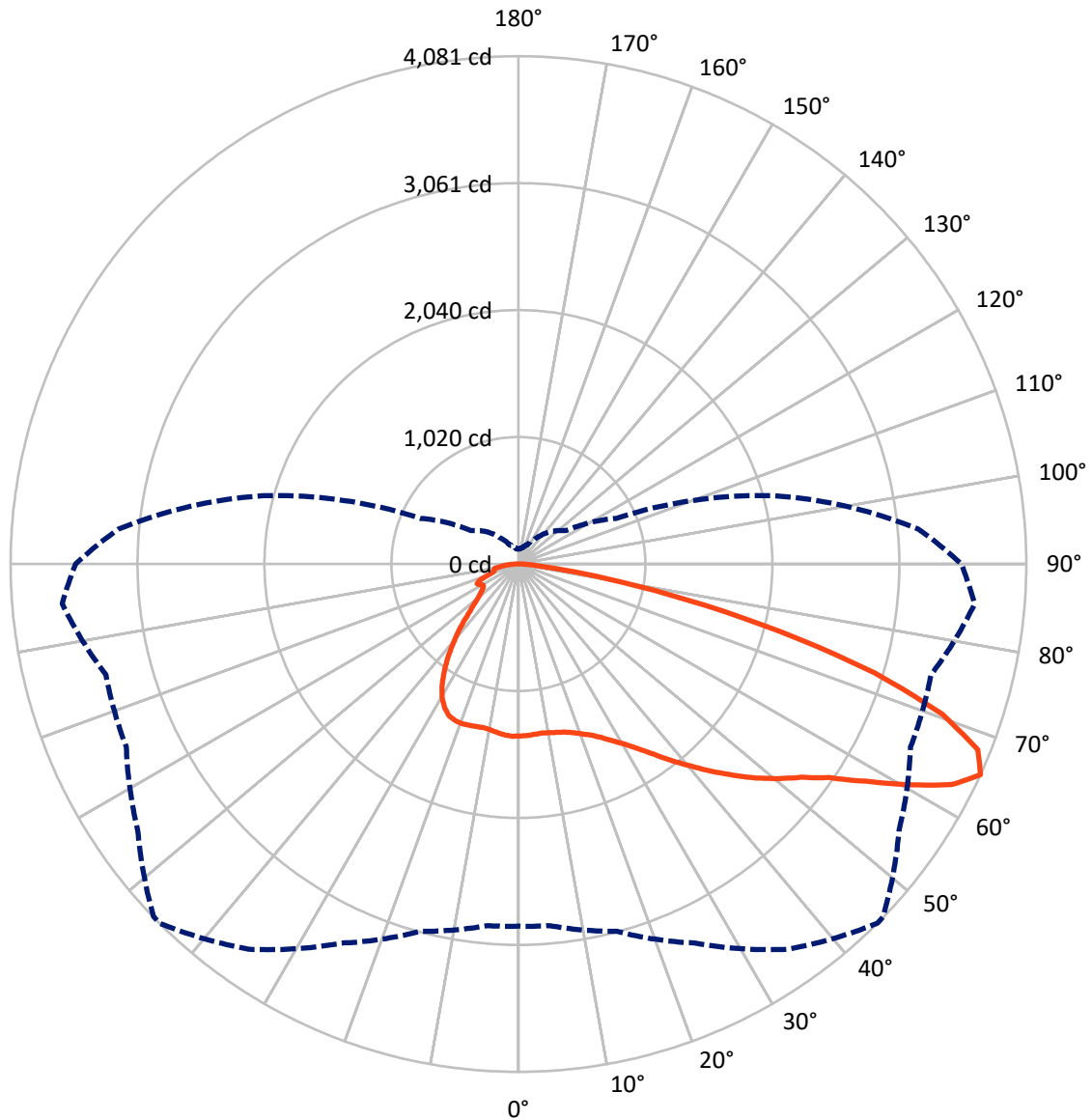


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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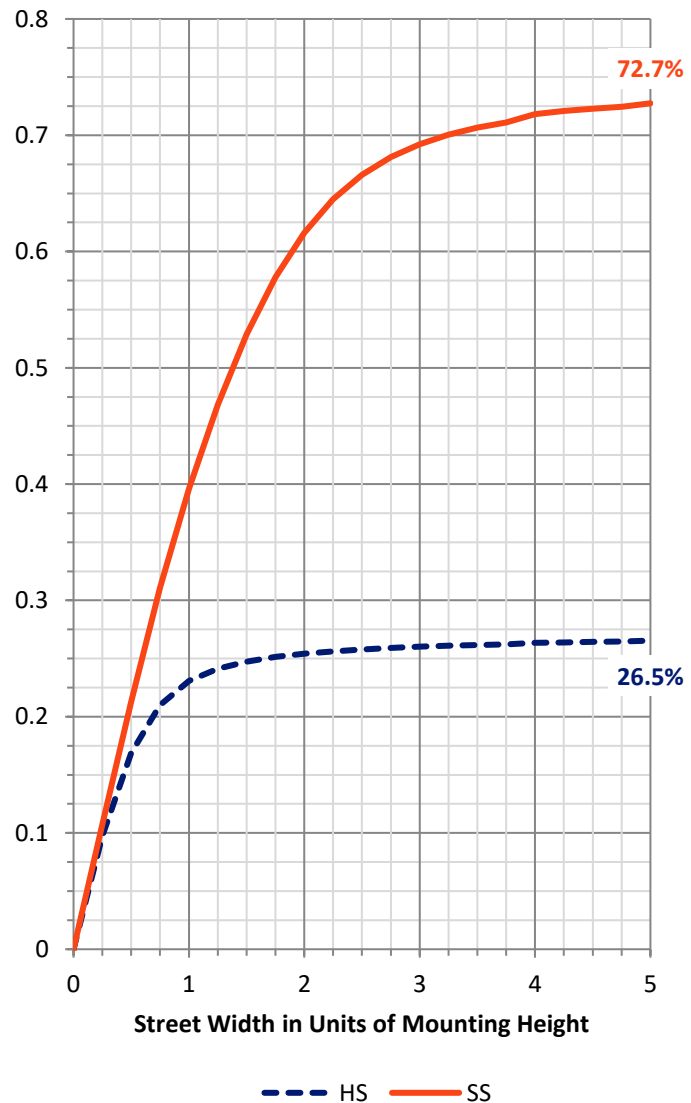
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2224.0	3.4	2227.4
	% Fixture	26.9	0.0	27.0
Street Side	Lumens	6032.6	4.0	6036.6
	% Fixture	73.0	0.0	73.0
Total	Lumens	8256.6	7.4	8264.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	1.6
10°-20°	387.2	4.7
20°-30°	645.8	7.8
30°-40°	912.3	11.0
40°-50°	1186.1	14.4
50°-60°	1594.8	19.3
60°-70°	2072.8	25.1
70°-80°	1178.0	14.3
80°-90°	148.8	1.8
90°-100°	7.2	0.1
100°-110°	0.2	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°	8256.6	99.9
0°-180°	8264.0	100.0



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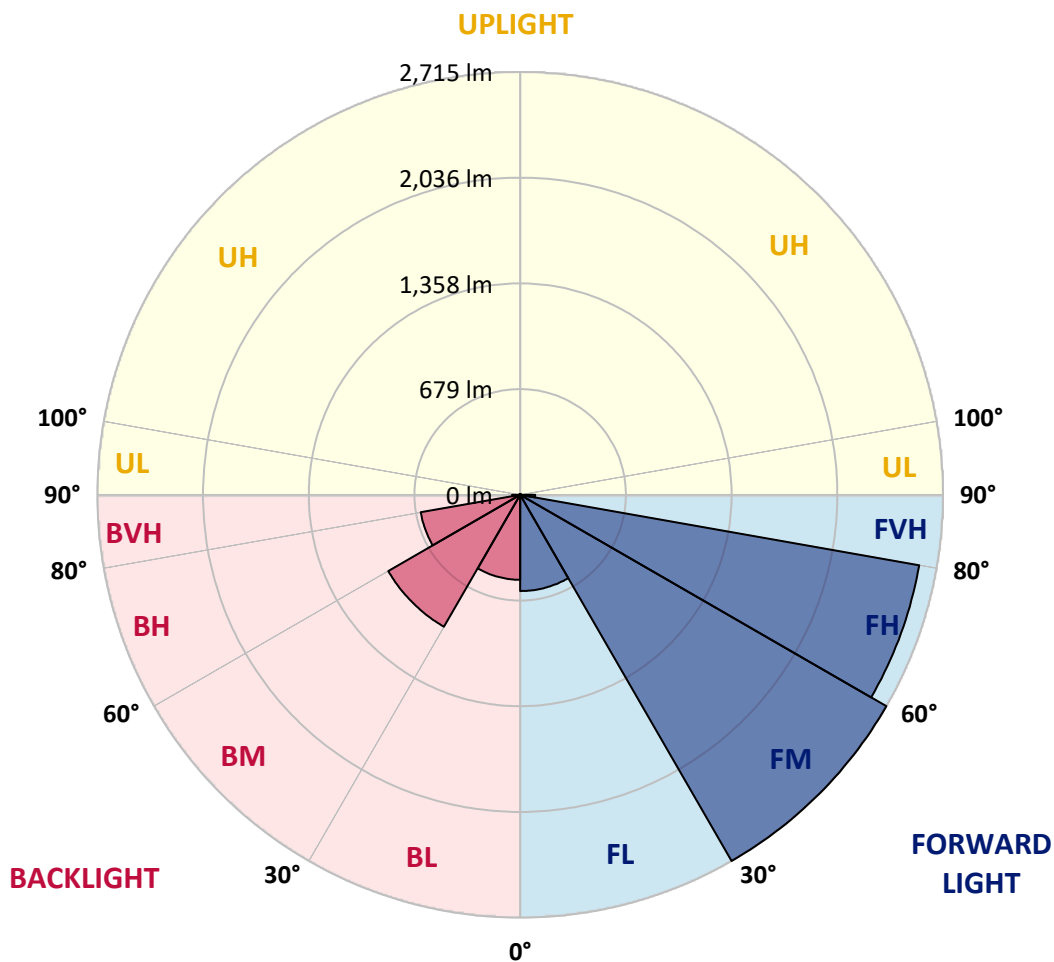
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.1	7.5			
FM	(30°-60°)	2715.3	32.9			
FH	(60°-80°)	2602.3	31.5			G2/5000
FVH	(80°-90°)	96.9	1.2			G1/100
BL	(0°-30°)	545.8	6.6	B2/1000		
BM	(30°-60°)	977.9	11.8	B1/1000		
BH	(60°-80°)	648.5	7.8	B2/1000		G2/1000
BVH	(80°-90°)	51.8	0.6			G1/100
UL	(90°-100°)	7.2	0.1		U1/10	
UH	(100°-180°)	3.4	0.0		U1/10	

BUG Rating: B2-U1-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8
2.5°	1388.6	1385.9	1376.3	1373.5	1370.8	1379.7	1384.5	1383.2	1384.5	1378.3	1374.9
5°	1368.7	1367.4	1357.8	1359.8	1359.8	1374.9	1378.3	1381.1	1386.6	1385.2	1387.3
7.5°	1357.1	1354.3	1346.8	1348.8	1353.0	1371.5	1374.9	1382.5	1391.4	1395.5	1396.2
10°	1357.8	1354.3	1346.8	1350.2	1353.6	1378.3	1380.4	1392.1	1401.0	1402.4	1400.3
12.5°	1371.5	1368.7	1359.1	1361.9	1364.6	1388.6	1392.1	1402.4	1412.0	1410.6	1404.4
15°	1396.9	1394.1	1381.8	1383.2	1382.5	1401.0	1408.6	1411.3	1422.3	1415.4	1400.3
17.5°	1434.6	1433.9	1420.2	1419.5	1413.4	1425.0	1429.1	1422.3	1427.8	1412.7	1389.3
20°	1480.6	1479.9	1464.2	1458.7	1451.8	1456.6	1458.7	1439.4	1429.8	1406.5	1376.3
22.5°	1530.7	1528.7	1513.6	1506.0	1495.0	1493.0	1494.4	1458.7	1435.3	1405.1	1371.5
25°	1595.9	1593.9	1572.6	1564.4	1547.2	1543.8	1545.8	1499.8	1464.2	1424.3	1383.8
27.5°	1652.2	1651.5	1638.5	1626.1	1611.0	1606.9	1609.0	1560.9	1515.6	1470.3	1423.0
30°	1725.0	1719.5	1698.2	1689.3	1684.5	1680.4	1678.3	1641.3	1592.5	1538.3	1485.4
32.5°	1793.0	1788.8	1768.9	1764.8	1767.6	1768.2	1764.8	1730.5	1681.8	1620.0	1556.1
35°	1875.3	1870.5	1849.2	1852.7	1868.5	1878.8	1880.1	1840.3	1779.9	1701.0	1621.3
37.5°	1948.8	1946.7	1939.8	1955.6	1985.2	2005.7	1999.6	1970.7	1887.7	1783.3	1674.9
40°	2027.0	2026.3	2025.7	2063.4	2116.9	2134.8	2132.0	2105.3	2002.3	1881.5	1749.7
42.5°	2109.4	2110.1	2113.5	2173.9	2250.1	2275.5	2271.4	2237.8	2123.1	2003.7	1846.5
45°	2201.4	2208.9	2215.1	2287.2	2384.0	2421.0	2416.9	2372.3	2241.2	2131.4	1952.2
47.5°	2300.2	2310.5	2315.3	2399.8	2513.0	2568.6	2559.0	2502.0	2350.3	2253.5	2062.7
50°	2425.8	2434.8	2437.5	2522.6	2646.2	2710.0	2702.5	2631.8	2459.5	2376.4	2205.5
52.5°	2565.9	2580.3	2585.1	2671.6	2785.5	2846.6	2841.1	2765.6	2585.1	2508.9	2377.8
55°	2731.3	2751.9	2764.9	2859.7	2970.2	3029.9	3021.0	2926.9	2758.1	2666.8	2584.4
57.5°	2900.8	2907.0	2955.1	3082.1	3220.7	3293.5	3275.6	3128.7	2967.4	2854.9	2822.6
60°	2955.8	2957.1	3043.6	3232.4	3466.5	3601.7	3581.1	3364.9	3239.9	3093.0	3116.4
62.5°	2978.4	2986.7	3107.5	3371.1	3701.9	3905.8	3893.4	3601.7	3439.7	3329.9	3444.5
65°	2909.8	2917.3	3055.3	3360.8	3778.8	4080.8	4075.3	3733.5	3476.8	3432.8	3679.9
67.5°	2637.3	2679.8	2842.5	3170.6	3625.0	3979.9	3979.9	3648.4	3334.0	3401.9	3715.6
70°	2251.5	2228.8	2418.3	2758.8	3236.5	3612.0	3623.0	3342.2	3006.6	3120.5	3456.2
72.5°	1723.6	1714.0	1893.9	2194.5	2603.6	2990.8	3010.0	2785.5	2443.0	2576.9	2981.2
75°	1302.2	1281.6	1414.0	1626.1	1894.5	2173.9	2200.0	2005.7	1711.3	1901.4	2230.2
77.5°	767.4	789.4	895.8	1048.9	1281.6	1380.4	1402.4	1233.5	981.6	1123.0	1134.0
80°	344.6	346.0	448.9	545.7	672.7	721.4	705.6	625.3	470.9	508.6	301.3
82.5°	118.1	135.9	212.8	254.7	305.5	288.3	281.4	271.8	255.4	277.3	138.0
85°	37.8	58.3	112.6	134.5	144.2	124.9	122.9	134.5	174.4	207.3	92.7
87.5°	6.9	22.7	64.5	76.2	77.6	58.3	56.3	70.7	109.8	131.1	52.9
90°	0.0	13.0	33.6	37.1	34.3	24.7	23.3	29.5	48.1	49.4	17.2
92.5°	0.0	4.8	15.1	15.8	11.7	6.9	6.2	6.2	6.9	4.8	4.1
95°	0.0	0.7	4.8	3.4	2.7	2.1	2.1	2.1	2.1	2.1	2.1
97.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1
100°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8
2.5°	1376.3	1375.6	1377.7	1383.8	1383.8	1384.5	1372.2	1371.5	1374.9	1388.6	1388.6
5°	1390.0	1388.6	1384.5	1383.8	1382.5	1378.3	1365.3	1361.2	1363.9	1375.6	1375.6
7.5°	1396.9	1392.8	1385.2	1377.7	1371.5	1365.3	1348.1	1343.3	1346.1	1357.8	1357.1
10°	1398.3	1390.7	1378.3	1366.0	1357.8	1350.9	1327.6	1323.4	1325.5	1337.8	1338.5
12.5°	1396.9	1385.9	1368.7	1357.8	1350.9	1344.7	1317.3	1306.3	1300.8	1311.8	1311.1
15°	1389.3	1377.0	1361.2	1358.4	1356.4	1348.1	1310.4	1285.0	1270.6	1277.4	1276.8
17.5°	1377.0	1366.7	1357.1	1367.4	1372.2	1355.7	1302.2	1261.0	1239.7	1241.1	1238.3
20°	1363.2	1350.9	1352.3	1377.0	1385.9	1359.8	1291.2	1232.8	1203.3	1197.8	1193.7
22.5°	1353.0	1340.6	1351.6	1388.0	1393.5	1356.4	1269.9	1195.8	1155.3	1147.0	1146.3
25°	1359.1	1346.8	1366.0	1396.9	1392.8	1340.6	1236.3	1157.3	1105.8	1095.5	1094.2
27.5°	1387.3	1370.1	1389.3	1402.4	1377.7	1300.8	1191.6	1105.8	1051.6	1037.2	1035.8
30°	1435.3	1405.8	1407.2	1394.8	1341.3	1243.1	1131.2	1037.9	983.7	965.8	968.6
32.5°	1491.6	1446.3	1414.0	1361.2	1274.0	1159.4	1044.7	951.4	906.1	891.0	891.7
35°	1545.2	1487.5	1411.3	1307.6	1184.1	1053.0	941.1	863.5	819.6	807.2	810.0
37.5°	1596.6	1529.4	1397.6	1231.5	1073.6	941.8	835.4	759.2	721.4	709.1	710.5
40°	1666.6	1583.6	1377.7	1145.0	960.3	820.3	720.1	650.0	619.8	608.9	612.3
42.5°	1753.8	1650.9	1359.1	1059.8	855.3	707.7	605.4	547.8	519.6	511.4	514.1
45°	1845.1	1729.1	1344.7	981.6	758.5	590.3	511.4	457.2	427.6	418.7	420.1
47.5°	1951.5	1815.6	1354.3	925.3	670.6	501.8	430.4	376.2	344.6	332.9	333.6
50°	2081.9	1936.4	1390.7	895.1	580.7	435.9	367.2	309.6	273.2	258.1	254.0
52.5°	2255.6	2079.2	1448.4	888.9	514.1	388.5	312.3	254.7	218.3	201.8	199.8
55°	2449.9	2237.1	1521.8	886.9	469.5	355.6	271.1	212.1	178.5	162.0	159.9
57.5°	2669.5	2423.1	1605.6	873.8	446.2	334.3	244.4	186.7	158.6	142.8	140.0
60°	2968.1	2675.7	1757.3	873.1	443.4	330.9	236.1	180.5	150.3	132.5	130.4
62.5°	3325.1	2996.3	1979.0	885.5	464.0	350.8	247.8	179.2	144.8	127.0	124.9
65°	3559.1	3224.2	2119.7	866.3	466.8	368.6	258.8	173.0	138.7	122.2	120.1
67.5°	3567.4	3220.7	2052.4	752.3	401.6	337.7	245.7	163.4	132.5	117.4	116.0
70°	3303.8	2970.9	1814.9	582.1	321.9	269.1	212.1	149.0	124.2	110.5	109.1
72.5°	2818.5	2523.3	1486.1	436.6	257.4	219.0	185.3	138.7	115.3	102.3	101.6
75°	2014.0	1799.1	1080.4	341.8	223.1	200.4	170.9	137.3	109.1	96.1	94.0
77.5°	895.8	764.0	599.9	300.7	214.2	200.4	164.1	133.9	103.0	85.1	83.1
80°	230.6	241.6	309.6	283.5	208.0	192.9	153.1	122.2	94.7	72.1	70.0
82.5°	129.0	131.1	192.2	223.8	173.7	148.3	130.4	100.2	81.0	60.4	57.7
85°	89.9	85.8	115.3	123.6	100.2	100.9	94.0	74.1	61.8	43.2	38.4
87.5°	48.7	51.5	61.1	53.5	48.7	48.7	61.8	51.5	44.6	24.7	17.2
90°	14.4	19.2	30.9	26.8	24.0	20.6	31.6	29.5	27.5	13.0	0.0
92.5°	4.1	3.4	5.5	6.2	6.9	6.9	11.7	13.0	13.7	4.1	0.0
95°	2.1	1.4	1.4	0.7	2.1	2.7	4.1	4.8	5.5	1.4	0.0
97.5°	2.1	2.1	1.4	1.4	0.7	0.7	1.4	1.4	1.4	0.0	0.0
100°	2.1	2.1	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)