

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: P691477

Luminaire Tested: **CRTK2-C016-D-U-T2-7030-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-D-U-T2-7030-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE II OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5047 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 41.6
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: 24 FT

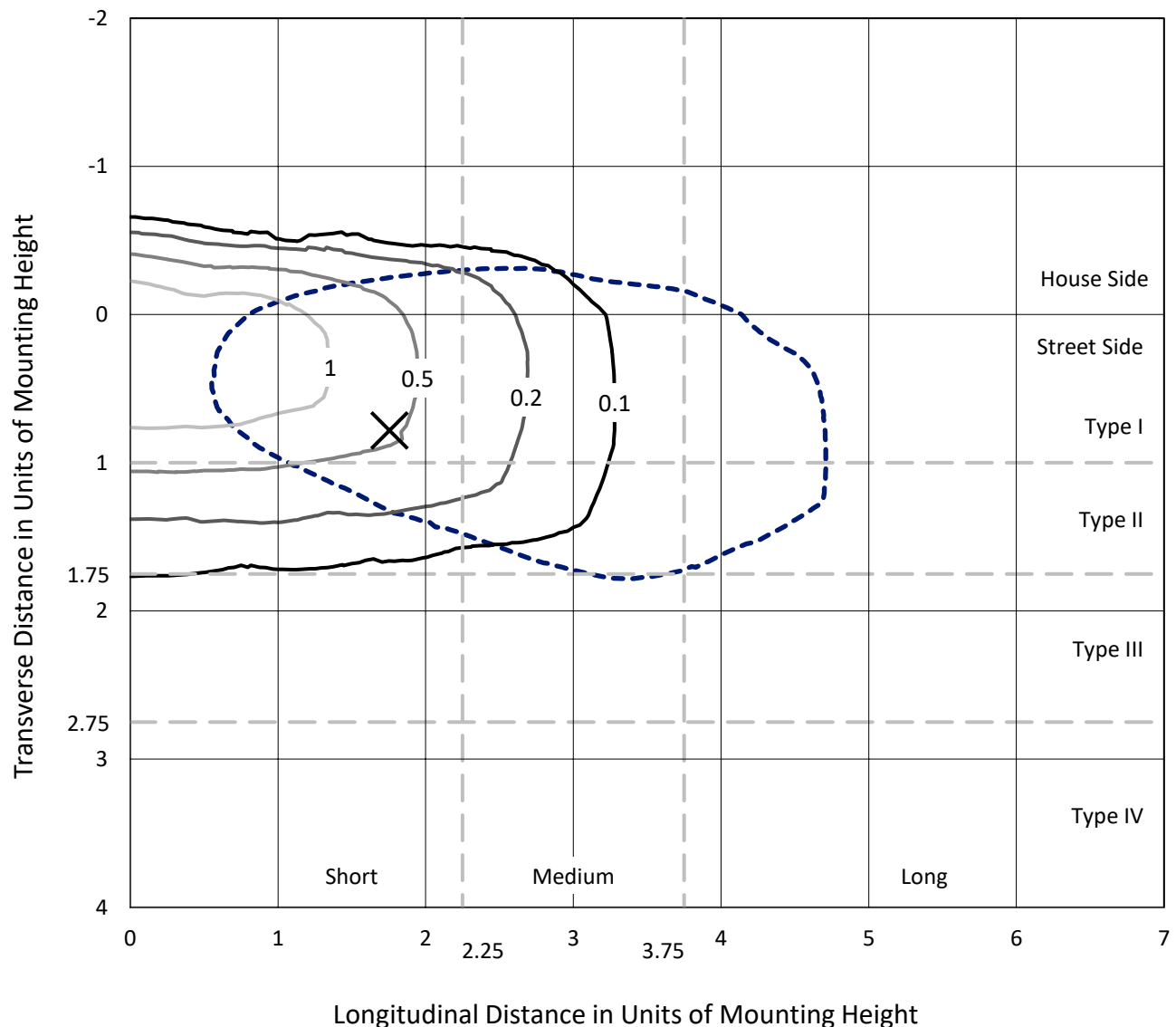


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

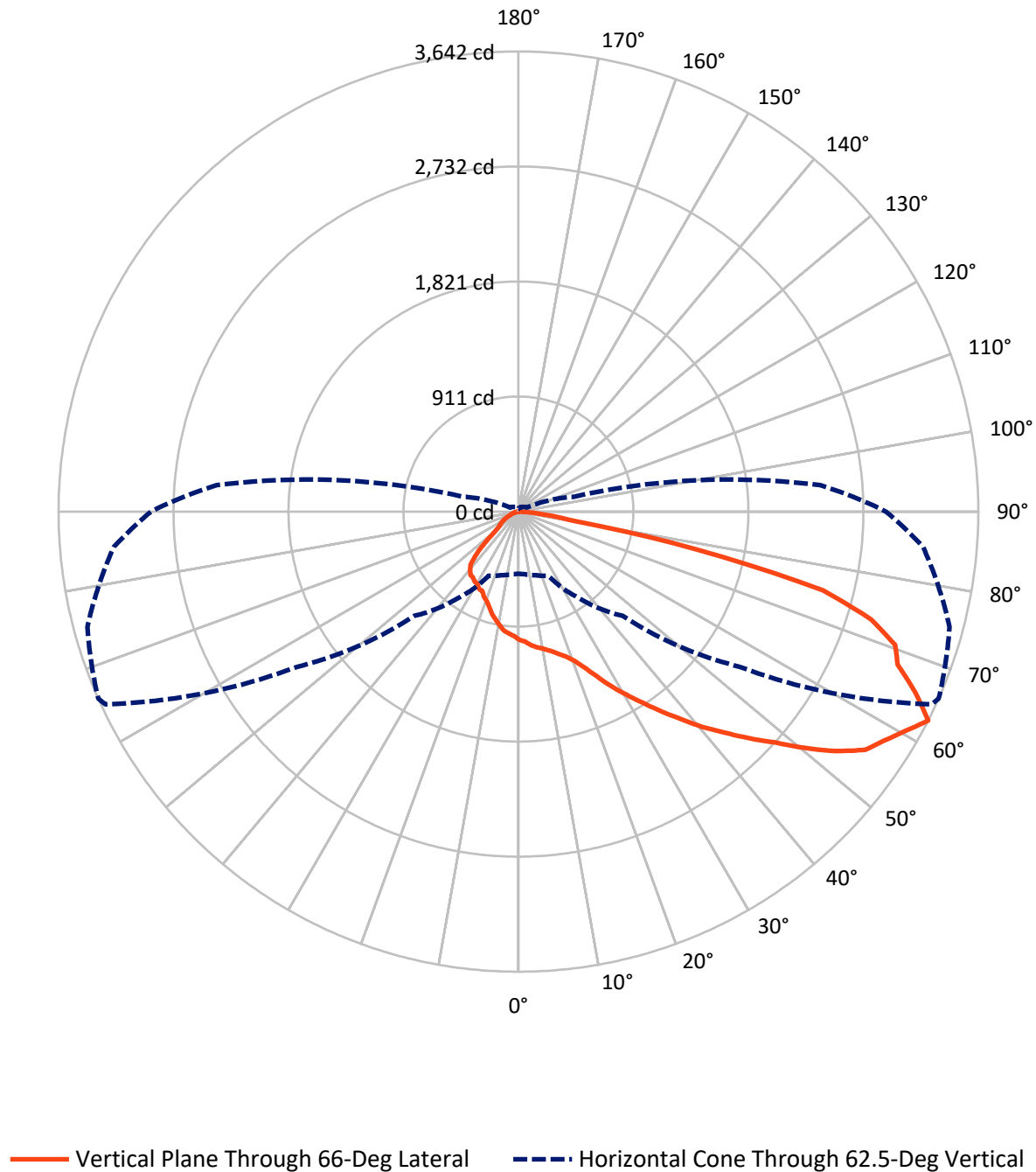


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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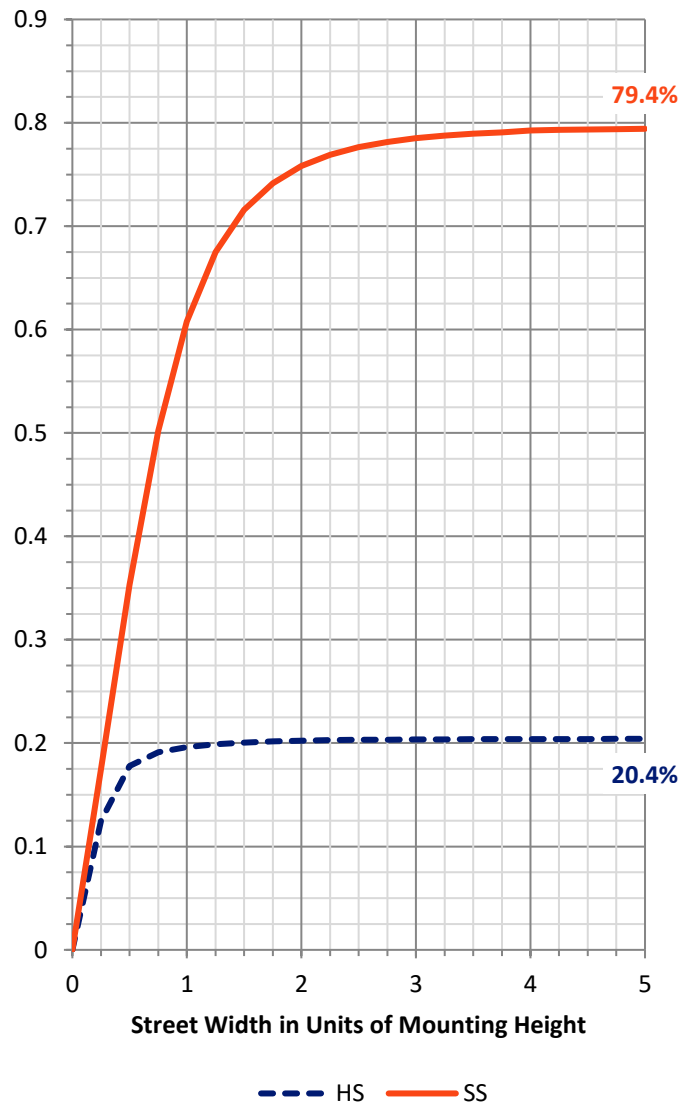
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1042.6	0.0	1042.6
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	4004.4	0.0	4004.4
	% Fixture	79.3	0.0	79.3
Total	Lumens	5047.0	0.0	5047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	1.9
10°-20°	273.2	5.4
20°-30°	448.2	8.9
30°-40°	659.5	13.1
40°-50°	869.8	17.2
50°-60°	1012.5	20.1
60°-70°	1006.1	19.9
70°-80°	622.4	12.3
80°-90°	59.5	1.2
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°	5047.0	100.0
0°-180°	5047.0	100.0

Coefficient of Utilization



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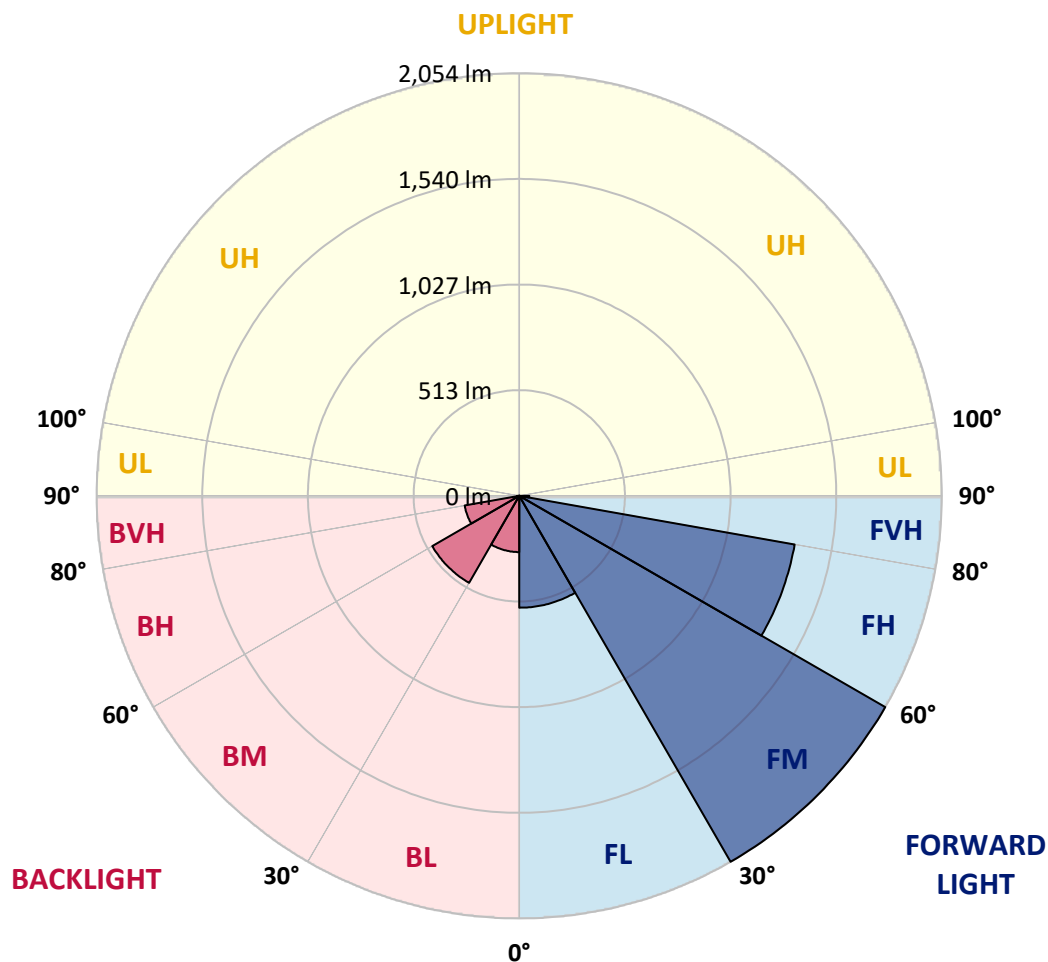
CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-U0-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.8	10.8			
FM	(30°-60°)	2053.6	40.7			
FH	(60°-80°)	1358.9	26.9			G1/1800
FVH	(80°-90°)	48.1	1.0			G1/100
BL	(0°-30°)	273.4	5.4	B1/500		
BM	(30°-60°)	488.2	9.7	B1/1000		
BH	(60°-80°)	269.5	5.3	B1/500		G1/500
BVH	(80°-90°)	11.4	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6
2.5°	1072.7	1072.7	1070.8	1057.5	1051.8	1044.2	1038.5	1032.7	1030.8	1025.1	1015.6
5°	1135.5	1133.6	1133.6	1122.1	1110.7	1095.5	1080.3	1065.1	1063.2	1048.0	1027.0
7.5°	1171.6	1171.6	1167.8	1160.2	1152.6	1143.1	1120.2	1087.9	1086.0	1065.1	1036.6
10°	1181.1	1183.0	1190.6	1171.6	1165.9	1156.4	1145.0	1110.7	1105.0	1074.6	1028.9
12.5°	1215.3	1215.3	1213.4	1196.3	1190.6	1183.0	1164.0	1137.4	1131.7	1093.6	1030.8
15°	1257.2	1259.1	1253.4	1238.2	1230.6	1221.0	1196.3	1167.8	1165.9	1116.4	1046.1
17.5°	1278.1	1278.1	1281.9	1261.0	1262.9	1259.1	1247.7	1207.7	1205.8	1160.2	1072.7
20°	1285.7	1287.6	1289.5	1289.5	1291.4	1287.6	1299.0	1264.8	1259.1	1207.7	1108.8
22.5°	1319.9	1323.7	1333.3	1327.5	1337.1	1342.8	1346.6	1348.5	1340.9	1287.6	1169.7
25°	1335.2	1344.7	1358.0	1378.9	1394.1	1405.5	1434.1	1447.4	1445.5	1399.8	1270.5
27.5°	1312.3	1323.7	1369.4	1405.5	1458.8	1489.2	1542.5	1559.6	1565.3	1523.4	1378.9
30°	1342.8	1346.6	1367.5	1413.1	1479.7	1571.0	1643.3	1681.3	1681.3	1649.0	1485.4
32.5°	1295.2	1306.6	1367.5	1451.2	1553.9	1652.8	1721.2	1803.0	1803.0	1787.8	1637.6
35°	1289.5	1295.2	1331.4	1424.5	1555.8	1736.5	1827.8	1924.8	1938.1	1940.0	1787.8
37.5°	1236.3	1247.7	1312.3	1432.2	1612.8	1787.8	1915.2	2065.5	2080.7	2101.6	1913.3
40°	1177.3	1181.1	1238.2	1363.7	1599.5	1854.4	1998.9	2223.4	2240.5	2269.0	2080.7
42.5°	1089.8	1105.0	1200.1	1337.1	1593.8	1875.3	2092.1	2371.7	2390.7	2430.7	2219.6
45°	1011.8	1017.5	1087.9	1240.1	1531.1	1905.7	2164.4	2546.7	2558.1	2582.8	2335.6
47.5°	949.1	952.9	1023.2	1154.5	1472.1	1898.1	2234.8	2704.5	2731.2	2769.2	2472.5
50°	760.8	781.7	956.7	1084.1	1369.4	1884.8	2289.9	2902.4	2942.3	2957.5	2630.4
52.5°	648.6	652.4	743.7	1013.7	1262.9	1827.8	2343.2	3104.0	3149.6	3107.8	2820.6
55°	601.0	604.8	646.7	873.0	1173.5	1717.4	2383.1	3298.0	3330.3	3227.6	2963.2
57.5°	570.6	578.2	597.2	709.4	1067.0	1533.0	2390.7	3404.5	3417.8	3322.7	3035.5
60°	528.7	528.7	566.8	620.0	951.0	1335.2	2328.0	3457.7	3522.4	3431.1	3168.6
62.5°	492.6	496.4	521.1	561.1	836.9	1167.8	2143.5	3609.9	3642.2	3533.8	3216.2
65°	450.8	454.6	477.4	517.3	760.8	1074.6	2044.6	3549.0	3453.9	3507.2	3275.1
67.5°	403.2	405.1	427.9	464.1	639.0	990.9	1806.8	3317.0	3239.0	3381.6	3111.6
70°	355.7	355.7	374.7	403.2	521.1	869.2	1493.0	3105.9	3164.8	3172.4	2949.9
72.5°	296.7	298.6	317.6	342.3	418.4	726.5	1181.1	2894.7	2921.4	2820.6	2594.2
75°	213.0	220.6	241.5	266.3	330.9	576.3	838.8	2352.7	2491.5	2670.3	2229.1
77.5°	32.3	32.3	39.9	60.9	108.4	289.1	388.0	1299.0	1441.7	2234.8	1947.6
80°	26.6	26.6	28.5	39.9	62.8	161.7	125.5	407.0	437.4	1027.0	1097.4
82.5°	13.3	13.3	20.9	28.5	38.0	47.5	53.3	195.9	226.3	350.0	437.4
85°	7.6	7.6	9.5	13.3	15.2	15.2	17.1	93.2	97.0	190.2	197.8
87.5°	1.9	1.9	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6
2.5°	1011.8	1006.1	994.7	985.2	979.5	968.1	958.6	951.0	947.2	956.7	958.6
5°	1013.7	1000.4	979.5	966.2	951.0	931.9	909.1	895.8	890.1	892.0	897.7
7.5°	1017.5	998.5	973.8	945.3	905.3	867.3	840.7	825.4	817.8	827.3	827.3
10°	1006.1	985.2	951.0	907.2	855.9	817.8	787.4	760.8	751.3	755.1	757.0
12.5°	1006.1	977.6	920.5	867.3	819.7	757.0	711.3	686.6	677.1	679.0	682.8
15°	1011.8	973.8	893.9	829.2	758.9	692.3	652.4	621.9	612.4	602.9	606.7
17.5°	1030.8	968.1	880.6	777.9	699.9	637.1	582.0	547.8	540.1	540.1	542.1
20°	1049.9	975.7	857.8	739.9	646.7	568.7	511.6	486.9	469.8	462.2	469.8
22.5°	1089.8	1002.3	842.6	715.1	591.5	517.3	464.1	408.9	378.5	365.2	369.0
25°	1162.1	1049.9	854.0	671.4	561.1	469.8	395.6	329.0	287.2	273.9	277.7
27.5°	1274.3	1127.8	867.3	667.6	505.9	422.2	321.4	249.2	216.8	203.5	207.3
30°	1384.6	1234.4	911.0	629.5	485.0	346.2	243.4	192.1	159.8	146.4	150.3
32.5°	1479.7	1337.1	966.2	620.0	429.8	260.6	182.6	142.6	117.9	106.5	108.4
35°	1620.4	1424.5	1013.7	591.5	365.2	195.9	133.1	102.7	89.4	85.6	85.6
37.5°	1746.0	1527.3	1059.4	582.0	273.9	146.4	95.1	83.7	81.8	76.1	76.1
40°	1877.2	1635.7	1080.3	547.8	199.7	102.7	78.0	78.0	76.1	70.4	70.4
42.5°	2031.3	1746.0	1099.3	507.8	142.6	78.0	72.3	74.2	72.3	66.6	64.7
45°	2141.6	1814.4	1105.0	407.0	98.9	74.2	68.5	70.4	68.5	64.7	62.8
47.5°	2242.4	1913.3	1080.3	285.3	79.9	70.4	66.6	66.6	66.6	60.9	59.0
50°	2347.0	1995.1	1059.4	154.1	78.0	68.5	62.8	60.9	62.8	59.0	57.1
52.5°	2485.8	2057.9	1004.2	104.6	76.1	66.6	60.9	57.1	59.0	55.2	57.1
55°	2670.3	2223.4	903.4	98.9	76.1	64.7	59.0	53.3	53.3	51.4	51.4
57.5°	2754.0	2286.1	741.8	95.1	74.2	64.7	55.2	49.5	45.6	43.7	41.8
60°	2856.7	2377.4	572.5	87.5	68.5	60.9	49.5	43.7	38.0	36.1	36.1
62.5°	2910.0	2398.3	452.7	78.0	62.8	53.3	43.7	36.1	30.4	26.6	26.6
65°	2940.4	2386.9	315.7	70.4	55.2	47.5	38.0	30.4	22.8	20.9	19.0
67.5°	2837.7	2318.5	184.5	60.9	47.5	41.8	32.3	24.7	19.0	17.1	15.2
70°	2632.3	2109.2	116.0	53.3	41.8	36.1	28.5	20.9	15.2	13.3	13.3
72.5°	2411.7	1700.3	79.9	41.8	32.3	28.5	20.9	17.1	13.3	9.5	9.5
75°	2170.1	1475.9	59.0	30.4	22.8	20.9	17.1	13.3	11.4	7.6	7.6
77.5°	1538.7	977.6	47.5	22.8	15.2	13.3	11.4	9.5	7.6	7.6	5.7
80°	909.1	477.4	36.1	15.2	11.4	9.5	7.6	7.6	5.7	5.7	5.7
82.5°	340.4	182.6	24.7	11.4	7.6	7.6	5.7	5.7	3.8	3.8	3.8
85°	123.6	45.6	11.4	5.7	5.7	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
90°	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)