

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: P842380

Luminaire Tested: **ARCH4-40-727-U-T2U-HSS**

Issue Date: 5/27/2024

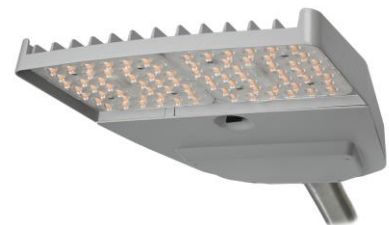
Test Information

Test Method: LM-79-08
Report Number: P842380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5153 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.8
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



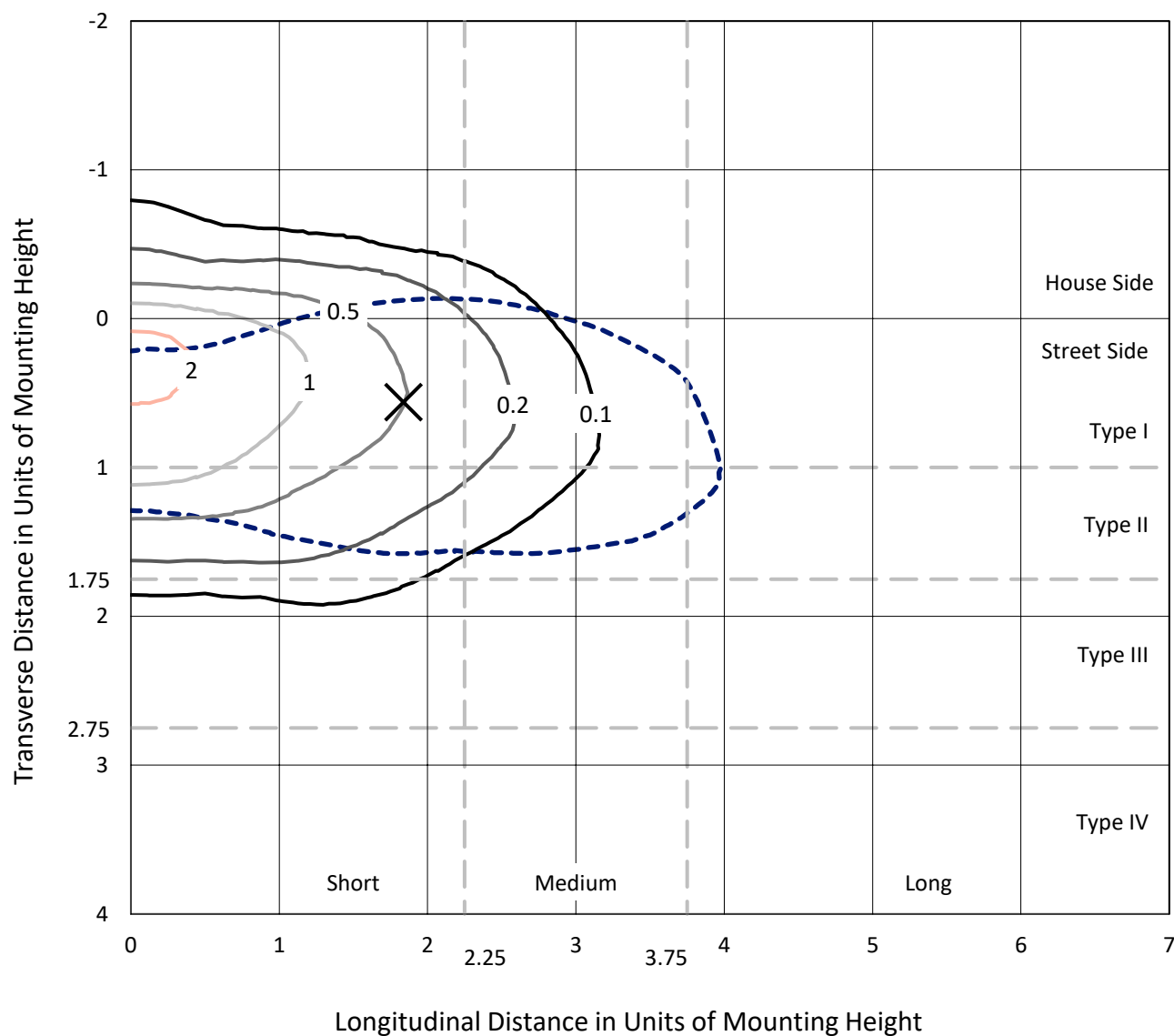
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

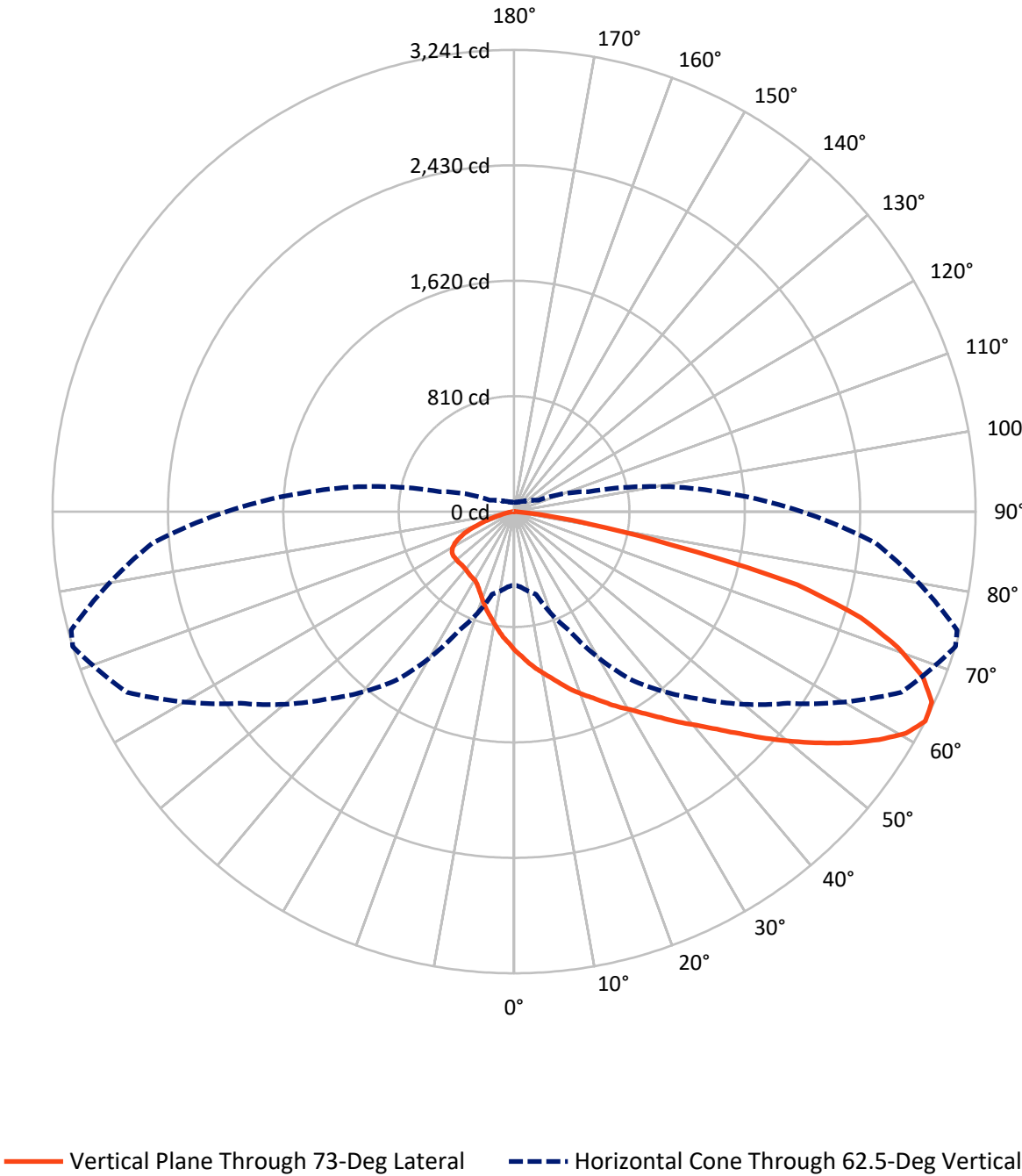


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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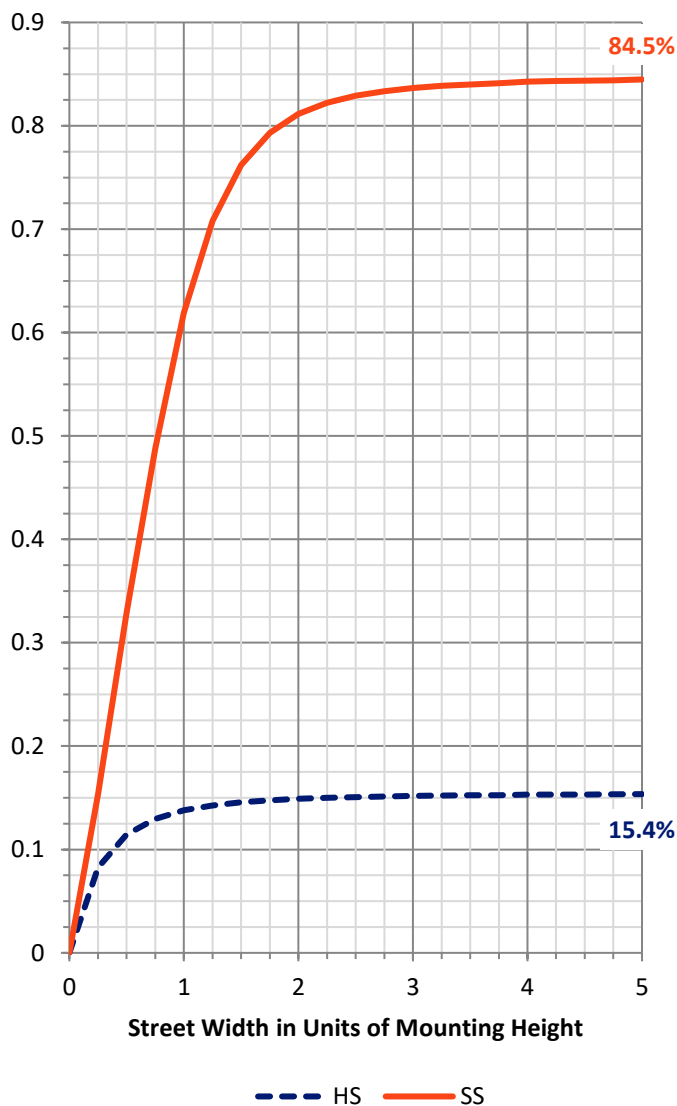
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.8	0.0	798.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4354.2	0.0	4354.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	5153.0	0.0	5153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.8
10°-20°	284.4	5.5
20°-30°	473.5	9.2
30°-40°	714.4	13.9
40°-50°	998.5	19.4
50°-60°	1102.9	21.4
60°-70°	960.8	18.6
70°-80°	485.3	9.4
80°-90°	39.0	0.8
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°	5153.0	100.0
0°-180°	5153.0	100.0

Coefficient of Utilization



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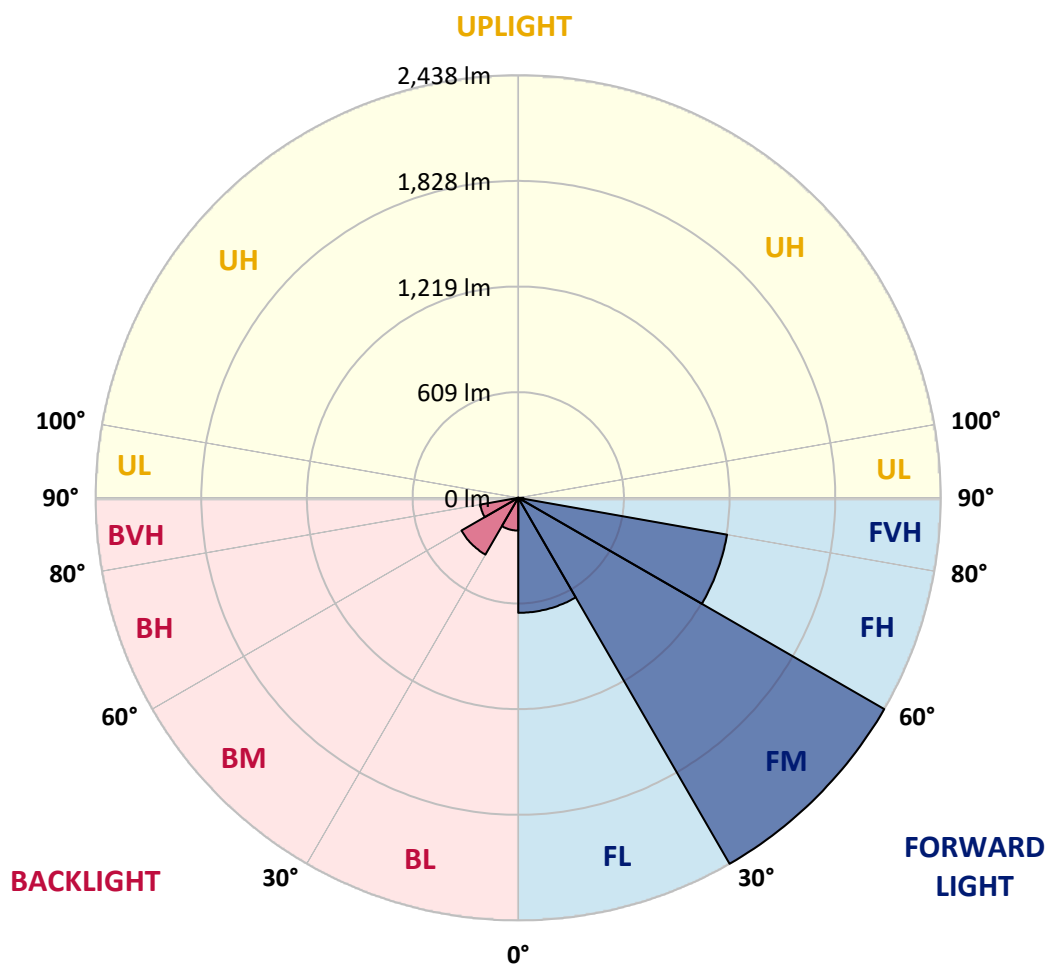
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	663.4	12.9			
FM	(30°-60°)	2437.6	47.3			
FH	(60°-80°)	1223.2	23.7			G1/1800
FVH	(80°-90°)	30.1	0.6			G1/100
BL	(0°-30°)	188.8	3.7	B1/500		
BM	(30°-60°)	378.2	7.3	B1/1000		
BH	(60°-80°)	223.0	4.3	B1/500		G1/500
BVH	(80°-90°)	8.8	0.2			G0/10
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°	73°	75°	85°
0°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7
2.5°	1110.5	1122.8	1116.1	1120.6	1098.1	1083.5	1066.7	1034.1	1016.2	1013.9	992.6
5°	1273.3	1286.8	1275.5	1272.2	1232.9	1199.2	1161.0	1103.7	1065.6	1058.8	1011.7
7.5°	1436.1	1448.4	1435.0	1424.9	1372.1	1312.6	1256.4	1172.2	1112.7	1101.5	1027.4
10°	1550.6	1561.8	1551.7	1541.6	1486.6	1426.0	1346.3	1236.2	1155.4	1137.4	1037.5
12.5°	1637.1	1643.8	1639.3	1630.3	1578.7	1513.6	1437.2	1308.1	1203.7	1181.2	1053.2
15°	1707.8	1719.0	1713.4	1706.7	1657.3	1592.2	1519.2	1383.3	1259.8	1231.7	1076.8
17.5°	1755.0	1762.8	1764.0	1764.0	1720.2	1656.2	1585.4	1451.8	1315.9	1280.0	1099.2
20°	1776.3	1785.3	1790.9	1799.9	1764.0	1708.9	1637.1	1510.2	1368.7	1328.3	1120.6
22.5°	1786.4	1794.3	1808.9	1829.1	1799.9	1753.8	1687.6	1564.1	1421.5	1378.8	1145.3
25°	1794.3	1804.4	1825.7	1863.9	1843.7	1804.4	1747.1	1625.8	1484.4	1440.6	1181.2
27.5°	1815.6	1828.0	1848.2	1894.2	1869.5	1850.4	1810.0	1692.1	1550.6	1505.7	1225.0
30°	1889.7	1899.8	1898.7	1927.9	1897.6	1892.0	1863.9	1756.1	1614.6	1569.7	1276.6
32.5°	2024.4	2034.6	2009.8	1998.6	1932.4	1933.5	1922.3	1824.6	1691.0	1644.9	1336.2
35°	2169.3	2180.5	2148.0	2128.9	2017.7	1985.1	1990.8	1909.9	1776.3	1730.3	1410.3
37.5°	2298.4	2311.9	2283.8	2255.7	2143.5	2068.2	2067.1	2005.4	1874.0	1826.8	1492.2
40°	2369.2	2384.9	2401.7	2386.0	2268.1	2185.0	2149.1	2103.0	1970.6	1922.3	1580.9
42.5°	2402.8	2446.6	2476.9	2466.8	2370.3	2286.1	2243.4	2205.2	2088.4	2041.3	1686.5
45°	2308.5	2309.6	2373.6	2428.7	2410.7	2354.6	2346.7	2319.7	2223.2	2178.3	1805.5
47.5°	2190.6	2181.6	2226.6	2324.2	2374.8	2389.4	2435.4	2446.6	2377.0	2332.1	1926.8
50°	1907.7	1913.3	2059.3	2199.6	2298.4	2392.7	2498.3	2576.9	2535.3	2492.7	2054.8
52.5°	1551.7	1565.2	1732.5	2041.3	2197.4	2359.0	2535.3	2707.1	2697.0	2656.6	2182.8
55°	1244.1	1265.4	1442.8	1777.4	2068.2	2283.8	2551.0	2826.1	2864.3	2827.3	2308.5
57.5°	951.0	973.5	1122.8	1466.4	1903.2	2161.4	2539.8	2930.6	3020.4	2996.8	2424.2
60°	716.4	738.8	834.3	1189.1	1696.6	2024.4	2483.7	2999.1	3160.7	3136.0	2508.4
62.5°	513.1	531.1	601.8	925.2	1445.1	1861.6	2345.6	3000.2	3240.5	3220.3	2548.8
65°	369.4	369.4	426.7	660.2	1209.3	1666.3	2136.7	2862.1	3223.6	3218.0	2520.7
67.5°	266.1	268.4	314.4	461.5	964.5	1429.4	1866.1	2616.2	3093.4	3121.4	2419.7
70°	188.6	194.2	215.6	322.2	728.7	1128.4	1576.4	2293.9	2858.7	2908.1	2224.3
72.5°	146.0	149.3	163.9	224.6	532.2	838.7	1256.4	1934.6	2545.4	2601.6	1958.2
75°	112.3	115.7	126.9	165.1	381.8	588.4	892.6	1501.2	2052.5	2152.4	1573.1
77.5°	82.0	86.5	94.3	120.1	222.3	373.9	541.2	844.4	1132.9	1180.1	824.2
80°	38.2	43.8	55.0	77.5	120.1	176.3	192.0	325.6	544.6	569.3	446.9
82.5°	21.3	26.9	31.4	47.2	60.6	62.9	65.1	82.0	205.5	226.8	187.5
85°	10.1	13.5	14.6	20.2	20.2	18.0	21.3	15.7	33.7	40.4	39.3
87.5°	0.0	1.1	2.2	5.6	4.5	3.4	3.4	3.4	3.4	4.5	3.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7
2.5°	982.5	967.9	934.2	905.0	885.9	869.1	846.6	836.5	818.5	821.9	811.8
5°	988.1	961.1	901.6	846.6	806.2	770.3	731.0	708.5	683.8	681.6	673.7
7.5°	991.5	949.9	864.6	787.1	725.3	670.3	617.6	588.4	558.0	551.3	544.6
10°	988.1	933.1	826.4	725.3	643.4	574.9	515.4	478.3	446.9	439.0	432.3
12.5°	991.5	924.1	790.5	668.1	570.4	492.9	425.5	387.4	358.2	350.3	345.8
15°	999.3	918.5	760.1	616.4	505.3	418.8	352.6	320.0	296.4	288.6	286.3
17.5°	1006.0	912.9	727.6	565.9	440.1	353.7	296.4	269.5	249.3	241.4	239.2
20°	1015.0	905.0	695.0	517.6	382.9	302.0	251.5	227.9	212.2	206.6	205.5
22.5°	1022.9	899.4	664.7	469.3	330.1	260.5	217.8	198.7	187.5	181.9	181.9
25°	1043.1	901.6	638.9	424.4	290.8	227.9	192.0	177.4	168.4	165.1	165.1
27.5°	1066.7	910.6	618.7	386.3	257.1	203.2	174.0	161.7	157.2	152.7	153.8
30°	1100.4	928.6	605.2	354.8	232.4	184.1	159.4	150.5	146.0	144.8	144.8
32.5°	1143.0	957.8	604.1	334.6	214.5	169.5	149.3	141.5	139.2	138.1	138.1
35°	1193.6	983.6	597.3	325.6	203.2	159.4	141.5	135.9	134.7	134.7	134.7
37.5°	1254.2	1026.3	592.8	313.3	197.6	153.8	135.9	131.4	131.4	131.4	131.4
40°	1317.1	1061.1	586.1	302.0	195.4	150.5	132.5	126.9	126.9	126.9	126.9
42.5°	1392.3	1111.6	583.9	296.4	192.0	148.2	128.0	121.3	122.4	122.4	123.5
45°	1483.2	1168.9	582.7	290.8	190.9	146.0	123.5	115.7	116.8	115.7	115.7
47.5°	1575.3	1235.1	586.1	287.4	189.8	143.7	120.1	110.0	110.0	108.9	108.9
50°	1671.9	1295.7	588.4	284.1	187.5	139.2	114.5	105.5	103.3	101.1	102.2
52.5°	1762.8	1351.9	589.5	278.5	180.8	132.5	110.0	99.9	96.6	93.2	94.3
55°	1853.8	1405.8	591.7	271.7	171.8	125.8	104.4	94.3	89.8	85.3	85.3
57.5°	1935.7	1452.9	586.1	254.9	161.7	119.0	98.8	87.6	80.8	76.4	76.4
60°	1991.9	1486.6	569.3	230.2	148.2	111.2	93.2	80.8	73.0	69.6	69.6
62.5°	2018.8	1492.2	539.0	189.8	131.4	103.3	86.5	74.1	67.4	65.1	65.1
65°	1993.0	1467.5	491.8	142.6	113.4	94.3	79.7	68.5	61.8	56.1	56.1
67.5°	1903.2	1397.9	426.7	107.8	96.6	85.3	73.0	62.9	55.0	50.5	50.5
70°	1722.4	1253.1	330.1	86.5	82.0	74.1	66.2	56.1	49.4	43.8	43.8
72.5°	1485.5	1062.2	232.4	69.6	69.6	62.9	56.1	49.4	42.7	38.2	38.2
75°	1139.7	786.0	156.1	56.1	57.3	52.8	46.0	40.4	35.9	32.6	32.6
77.5°	622.0	388.5	95.4	41.5	42.7	40.4	35.9	32.6	30.3	26.9	26.9
80°	302.0	170.7	55.0	29.2	30.3	29.2	26.9	23.6	23.6	21.3	21.3
82.5°	126.9	64.0	29.2	20.2	20.2	18.0	16.8	16.8	16.8	15.7	15.7
85°	31.4	12.4	12.4	11.2	11.2	11.2	10.1	10.1	10.1	7.9	9.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	3.4	1.1	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

(END OF REPORT)