

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: P842382

Luminaire Tested: **ARCH4-40-727-U-T3-HSS**

Issue Date: 5/27/2024

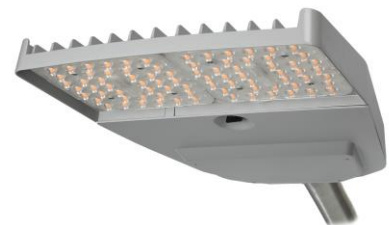
Test Information

Test Method: LM-79-08
Report Number: P842382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4994 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - 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



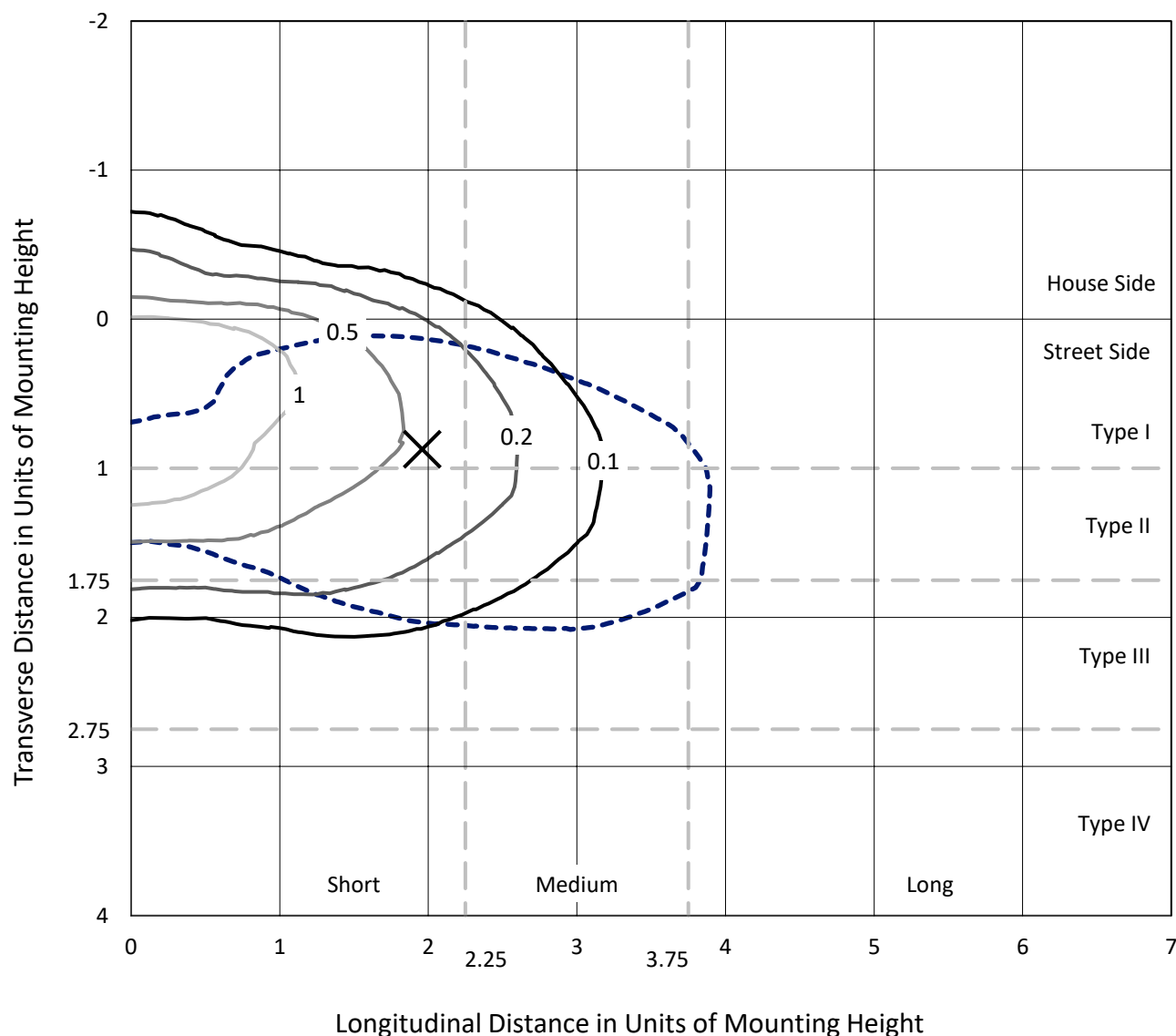
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



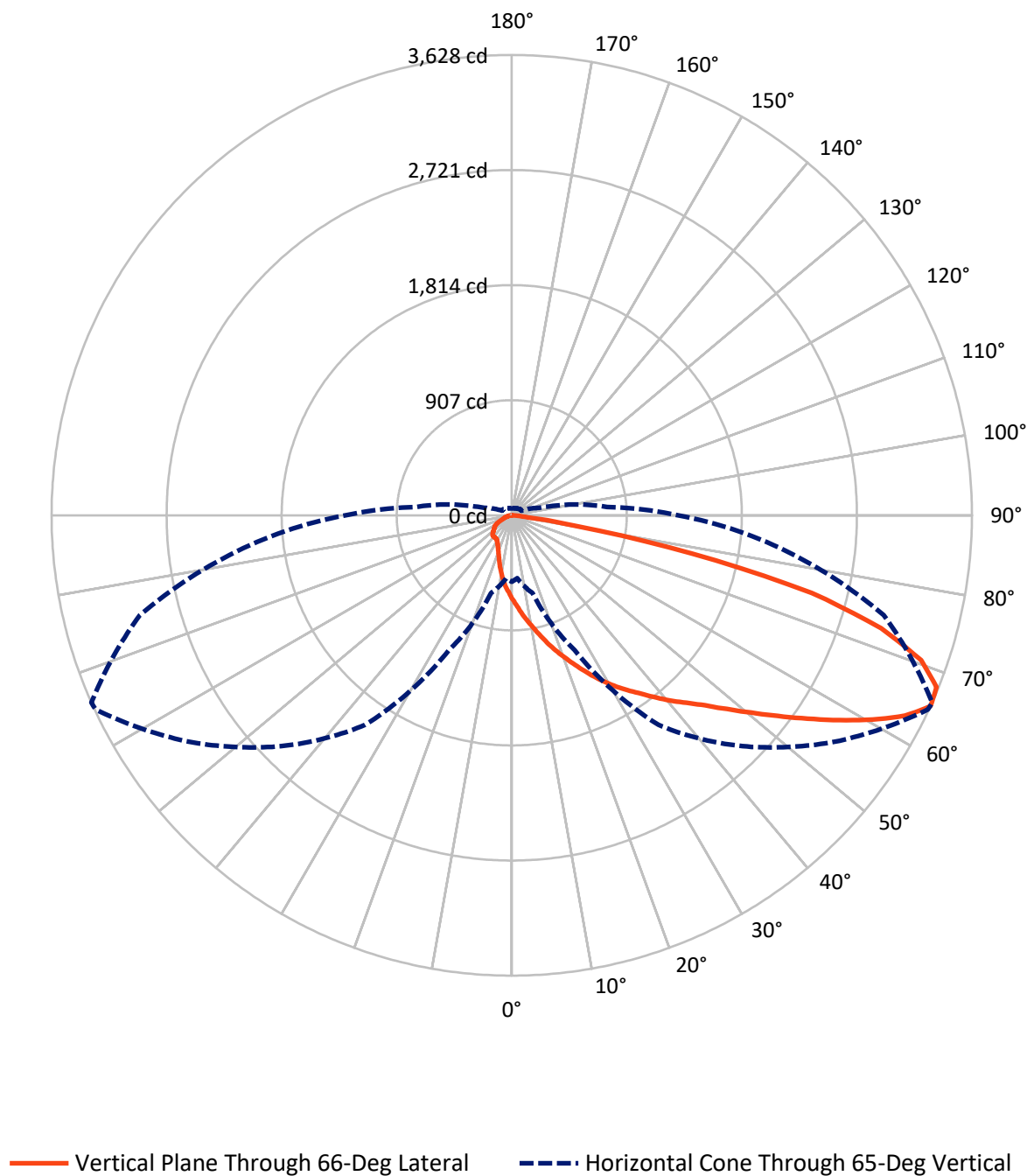
Based on 25 foot mounting height. Maximum calculated value = 1.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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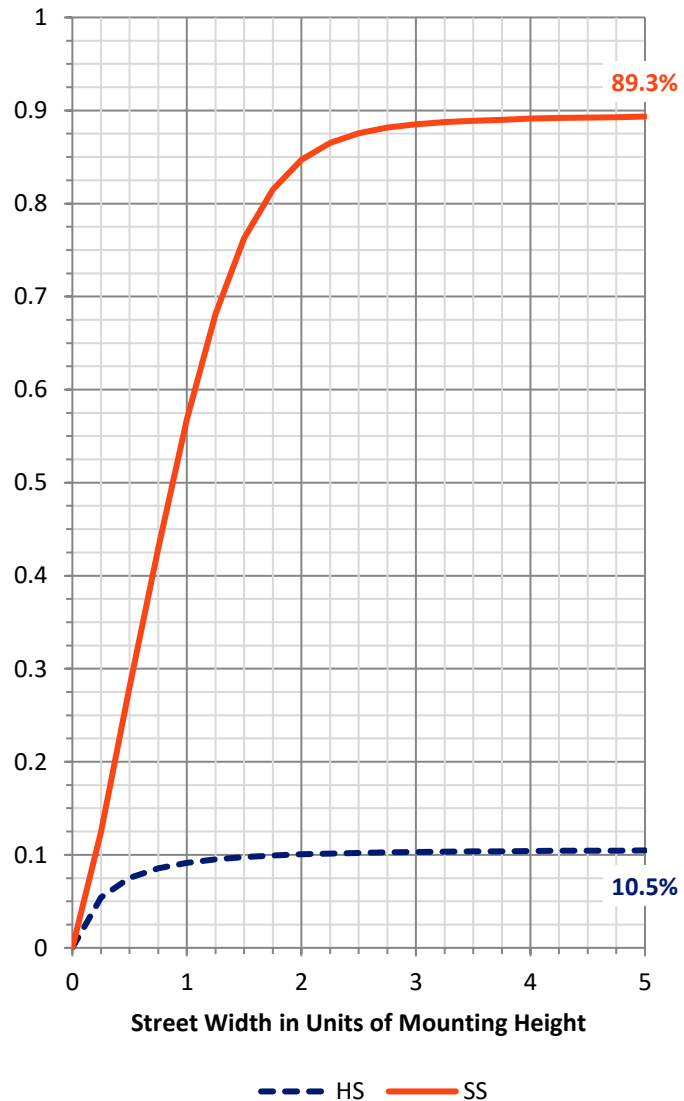
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	528.2	0.0	528.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4465.8	0.0	4465.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	4994.0	0.0	4994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.3
10°-20°	212.6	4.3
20°-30°	384.7	7.7
30°-40°	601.5	12.0
40°-50°	912.5	18.3
50°-60°	1159.4	23.2
60°-70°	1083.4	21.7
70°-80°	538.4	10.8
80°-90°	36.2	0.7
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°	4994.0	100.0
0°-180°	4994.0	100.0

Coefficient of Utilization



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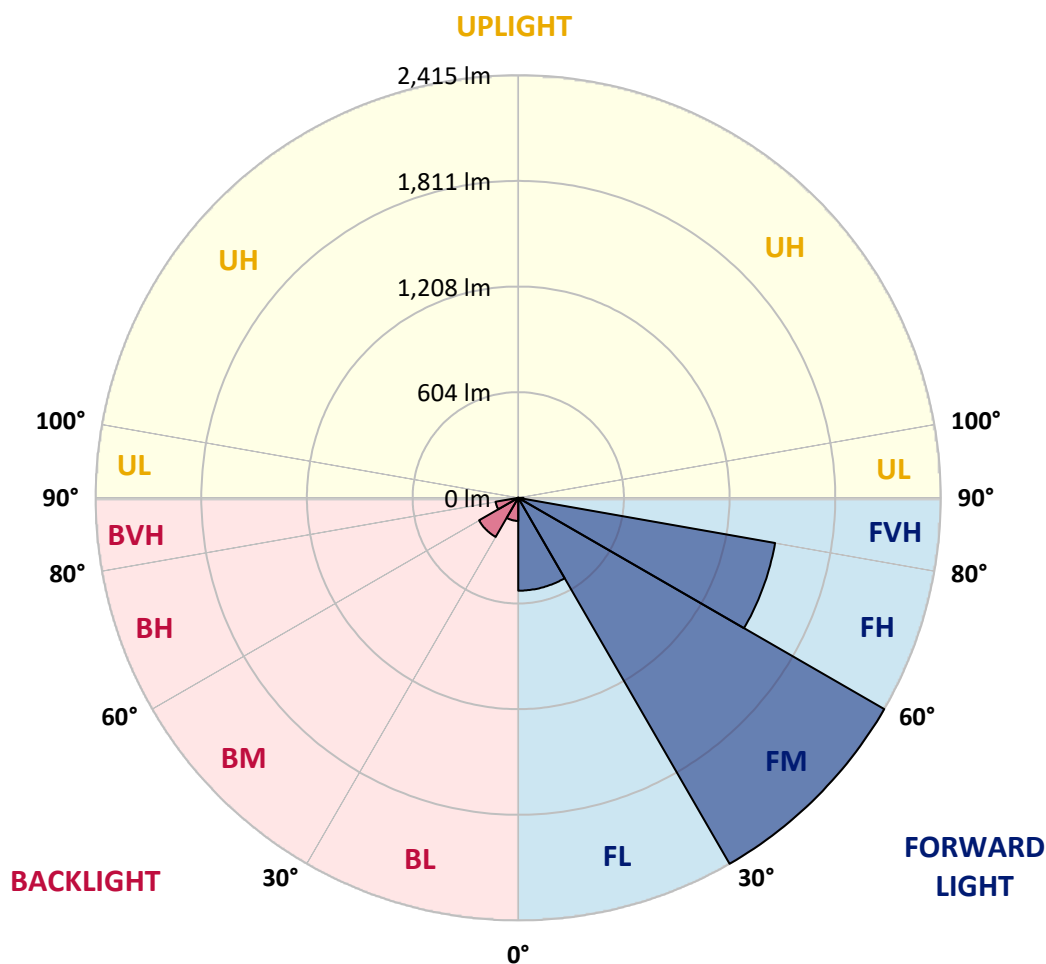
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.6	10.6			
FM	(30°-60°)	2415.2	48.4			
FH	(60°-80°)	1490.2	29.8			G1/1800
FVH	(80°-90°)	29.8	0.6			G1/100
BL	(0°-30°)	131.9	2.6	B1/500		
BM	(30°-60°)	258.4	5.2	B1/1000		
BH	(60°-80°)	131.5	2.6	B1/500		G1/500
BVH	(80°-90°)	6.4	0.1			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9
2.5°	772.0	778.2	781.4	782.4	758.3	747.9	737.4	713.3	708.1	694.4	676.6
5°	908.1	916.5	914.4	910.2	880.9	847.4	820.1	775.1	767.8	735.3	695.5
7.5°	1042.2	1049.5	1047.4	1031.7	999.2	952.1	907.1	841.1	830.6	778.2	714.3
10°	1154.3	1160.6	1159.5	1143.8	1105.0	1047.4	993.0	905.0	892.4	818.0	730.1
12.5°	1246.4	1254.8	1253.8	1243.3	1208.7	1145.9	1084.1	978.3	962.6	866.2	752.1
15°	1318.7	1329.2	1329.2	1325.0	1300.9	1248.5	1178.4	1059.0	1040.1	921.7	779.3
17.5°	1362.7	1371.1	1378.4	1385.8	1369.0	1329.2	1265.3	1139.6	1119.7	976.2	807.6
20°	1385.8	1394.1	1399.4	1415.1	1418.2	1398.3	1348.0	1219.2	1198.3	1038.0	840.0
22.5°	1423.5	1430.8	1431.8	1445.5	1451.7	1457.0	1425.6	1297.8	1281.0	1106.1	876.7
25°	1486.3	1494.7	1491.5	1497.8	1498.9	1505.2	1502.0	1387.8	1371.1	1183.6	920.7
27.5°	1567.0	1577.4	1575.3	1569.1	1559.6	1554.4	1568.0	1479.0	1463.3	1261.1	965.7
30°	1653.9	1666.5	1663.3	1650.8	1625.6	1603.6	1622.5	1564.9	1550.2	1340.7	1016.0
32.5°	1741.9	1756.5	1755.5	1734.5	1691.6	1653.9	1682.2	1645.5	1635.0	1426.6	1070.5
35°	1799.5	1818.3	1816.2	1803.7	1748.2	1715.7	1750.3	1728.3	1720.9	1531.3	1149.0
37.5°	1892.7	1912.6	1894.8	1863.4	1799.5	1782.7	1824.6	1821.5	1816.2	1642.4	1231.8
40°	2119.0	2148.3	2101.1	1972.3	1867.6	1852.9	1912.6	1925.2	1919.9	1752.4	1306.1
42.5°	2355.7	2399.7	2326.3	2148.3	1991.2	1937.7	2009.0	2026.8	2020.5	1846.6	1373.2
45°	2499.2	2518.0	2444.7	2306.4	2210.1	2040.4	2111.6	2140.9	2135.7	1959.7	1459.1
47.5°	2616.5	2609.1	2525.4	2432.1	2449.9	2184.9	2227.9	2285.5	2281.3	2084.4	1553.3
50°	2641.6	2624.9	2591.3	2532.7	2579.8	2331.6	2350.4	2449.9	2445.7	2222.6	1648.7
52.5°	2464.6	2442.6	2533.7	2583.0	2567.3	2438.4	2485.6	2630.1	2628.0	2372.4	1739.8
55°	2022.6	2004.8	2249.9	2504.4	2553.6	2513.8	2635.3	2817.6	2829.1	2531.6	1822.5
57.5°	1591.0	1572.2	1813.1	2307.5	2503.4	2583.0	2810.3	3032.3	3047.0	2704.5	1901.1
60°	1268.4	1240.2	1424.5	1997.4	2409.1	2636.4	2978.9	3268.0	3270.1	2862.6	1949.3
62.5°	862.0	830.6	1034.9	1604.7	2250.9	2644.8	3108.8	3471.2	3479.6	2981.0	1957.6
65°	523.7	497.5	635.8	1172.1	2017.4	2573.5	3110.9	3621.0	3628.3	3035.5	1907.4
67.5°	303.8	293.3	363.5	730.1	1629.8	2381.9	2979.9	3597.9	3611.5	3012.4	1793.2
70°	177.0	176.0	202.2	361.4	1150.1	2001.6	2687.7	3404.1	3424.0	2892.0	1618.3
72.5°	129.9	132.0	142.5	193.8	666.2	1441.3	2276.1	3014.5	3044.9	2656.3	1369.0
75°	102.6	103.7	113.1	132.0	349.8	814.9	1705.2	2419.6	2443.7	2236.3	1069.4
77.5°	76.5	78.6	85.9	93.2	162.4	373.9	959.4	1490.5	1450.7	1227.6	516.4
80°	55.5	60.8	63.9	67.0	85.9	144.5	288.0	519.5	515.3	536.3	244.1
82.5°	35.6	39.8	42.9	45.0	51.3	69.1	85.9	116.3	125.7	208.4	97.4
85°	15.7	17.8	19.9	24.1	22.0	24.1	35.6	23.0	19.9	31.4	17.8
87.5°	0.0	0.0	3.1	5.2	4.2	2.1	6.3	4.2	3.1	3.1	3.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9
2.5°	667.2	655.7	631.6	608.6	594.9	577.1	561.4	546.8	545.7	541.5	534.2
5°	675.6	653.6	608.6	565.6	533.1	498.6	469.2	446.2	437.8	431.5	423.2
7.5°	684.0	649.4	582.4	519.5	468.2	420.0	385.5	354.0	344.6	336.2	331.0
10°	687.1	642.1	552.0	468.2	401.2	349.8	313.2	290.1	281.8	277.6	274.4
12.5°	696.5	637.9	523.7	420.0	342.5	295.4	269.2	255.6	252.4	249.3	246.1
15°	709.1	637.9	495.4	372.9	296.4	258.7	243.0	233.6	231.5	230.4	228.3
17.5°	722.7	637.9	468.2	333.1	262.9	234.6	223.1	217.9	216.8	215.8	214.7
20°	741.6	638.9	438.9	298.5	238.8	216.8	207.4	201.1	200.1	199.0	199.0
22.5°	760.4	641.0	410.6	272.3	223.1	203.2	191.7	185.4	183.3	183.3	183.3
25°	784.5	647.3	384.4	250.3	209.5	190.6	176.0	170.7	169.7	169.7	168.6
27.5°	812.8	654.6	361.4	233.6	195.9	176.0	161.3	156.1	154.0	154.0	152.9
30°	843.2	662.0	342.5	221.0	182.3	161.3	147.7	141.4	139.3	140.4	139.3
32.5°	876.7	672.5	327.8	212.6	169.7	148.7	136.2	128.8	127.8	127.8	126.7
35°	933.3	701.8	325.8	208.4	159.2	139.3	126.7	119.4	118.4	118.4	117.3
37.5°	994.0	735.3	335.2	206.3	150.8	130.9	119.4	112.1	111.0	111.0	111.0
40°	1045.3	760.4	345.7	206.3	145.6	123.6	113.1	106.8	106.8	106.8	106.8
42.5°	1079.9	762.5	343.6	206.3	141.4	118.4	108.9	102.6	102.6	103.7	102.6
45°	1131.2	773.0	335.2	203.2	138.3	114.2	104.7	99.5	98.5	99.5	99.5
47.5°	1192.0	791.9	326.8	190.6	137.2	110.0	101.6	95.3	94.3	95.3	94.3
50°	1249.6	808.6	322.6	173.9	135.1	105.8	97.4	91.1	90.1	91.1	90.1
52.5°	1297.8	815.9	315.3	162.4	129.9	101.6	93.2	86.9	84.8	85.9	85.9
55°	1336.5	813.9	304.8	152.9	120.5	97.4	88.0	82.7	79.6	79.6	78.6
57.5°	1372.1	814.9	295.4	143.5	110.0	91.1	83.8	77.5	73.3	72.3	71.2
60°	1385.8	809.7	278.6	130.9	99.5	85.9	78.6	71.2	67.0	66.0	64.9
62.5°	1366.9	790.8	256.6	108.9	90.1	79.6	73.3	66.0	61.8	60.8	59.7
65°	1313.5	755.2	223.1	85.9	81.7	72.3	67.0	61.8	56.6	54.5	53.4
67.5°	1222.4	703.9	181.2	69.1	72.3	66.0	62.8	56.6	50.3	48.2	47.1
70°	1092.5	635.8	136.2	58.7	63.9	58.7	56.6	50.3	45.0	42.9	41.9
72.5°	910.2	525.8	95.3	50.3	55.5	51.3	49.2	45.0	39.8	36.7	36.7
75°	688.2	377.1	62.8	42.9	46.1	44.0	40.8	37.7	34.6	32.5	31.4
77.5°	296.4	146.6	38.8	32.5	37.7	36.7	32.5	30.4	29.3	27.2	27.2
80°	127.8	59.7	24.1	24.1	27.2	26.2	25.1	23.0	23.0	22.0	20.9
82.5°	47.1	24.1	14.7	17.8	19.9	17.8	17.8	17.8	17.8	16.8	16.8
85°	11.5	7.3	7.3	10.5	11.5	10.5	11.5	10.5	10.5	10.5	9.4
87.5°	3.1	3.1	4.2	4.2	4.2	4.2	4.2	3.1	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)