

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: P842537

Luminaire Tested: **ARCH4-60-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7659 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

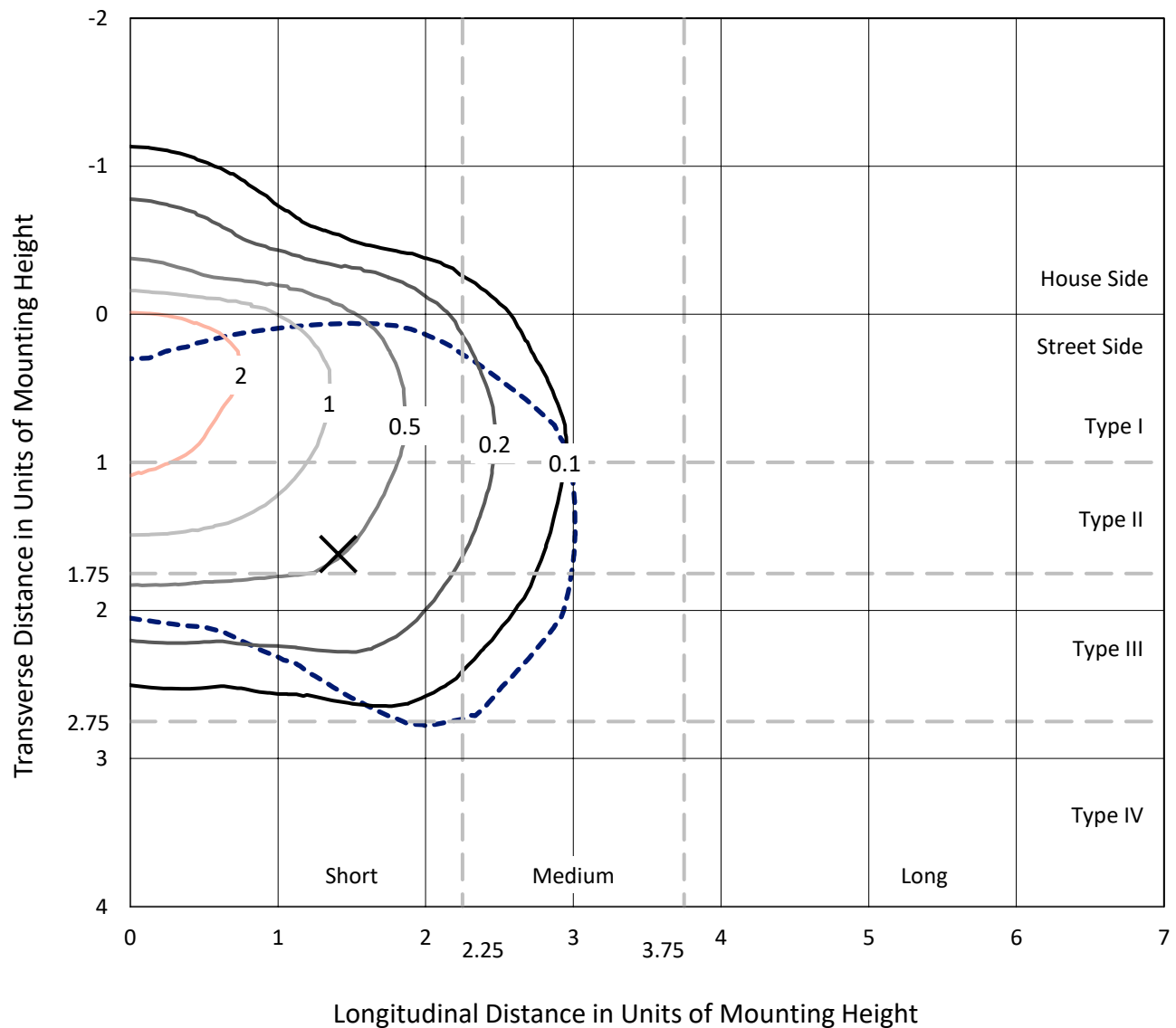
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

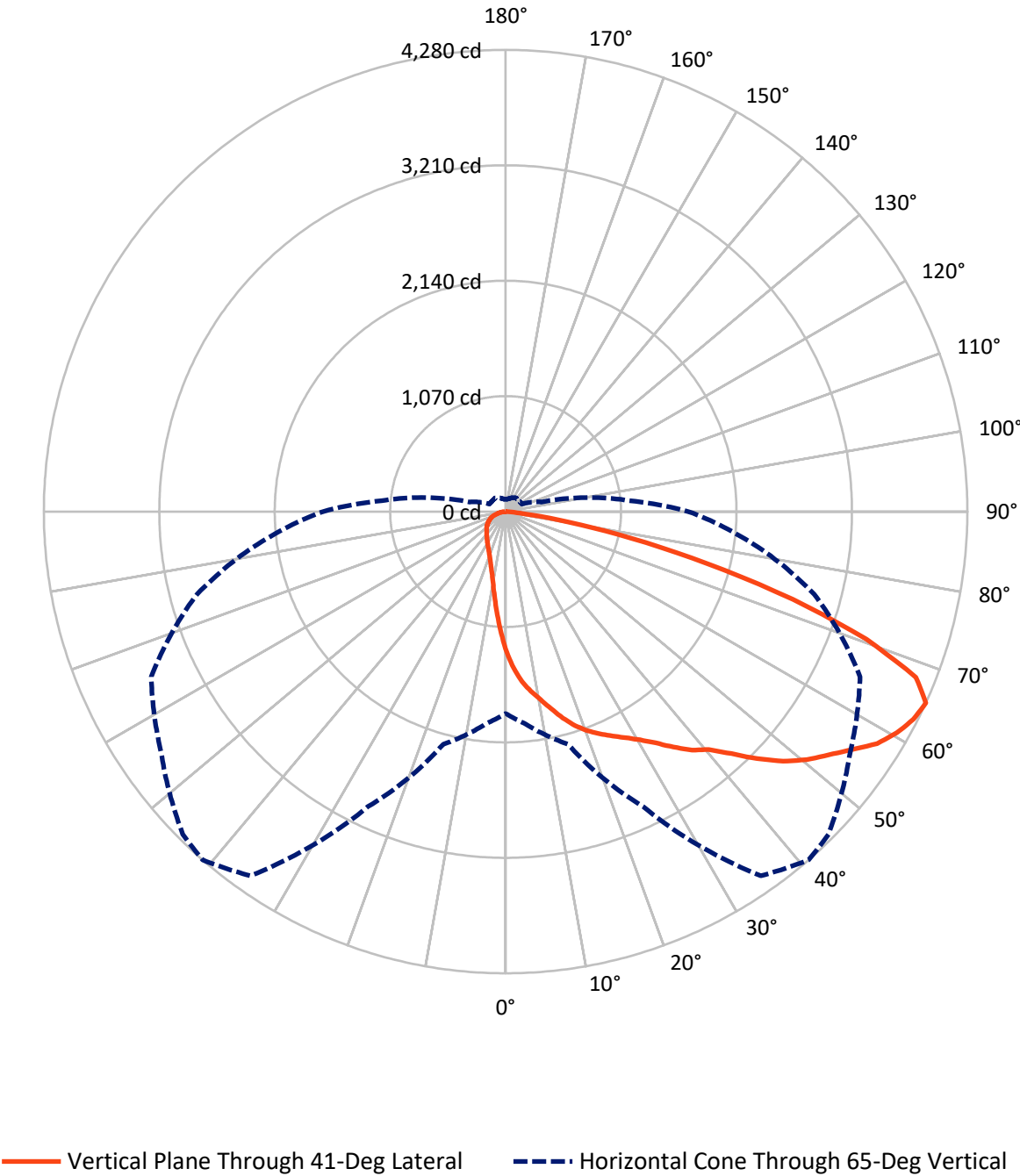
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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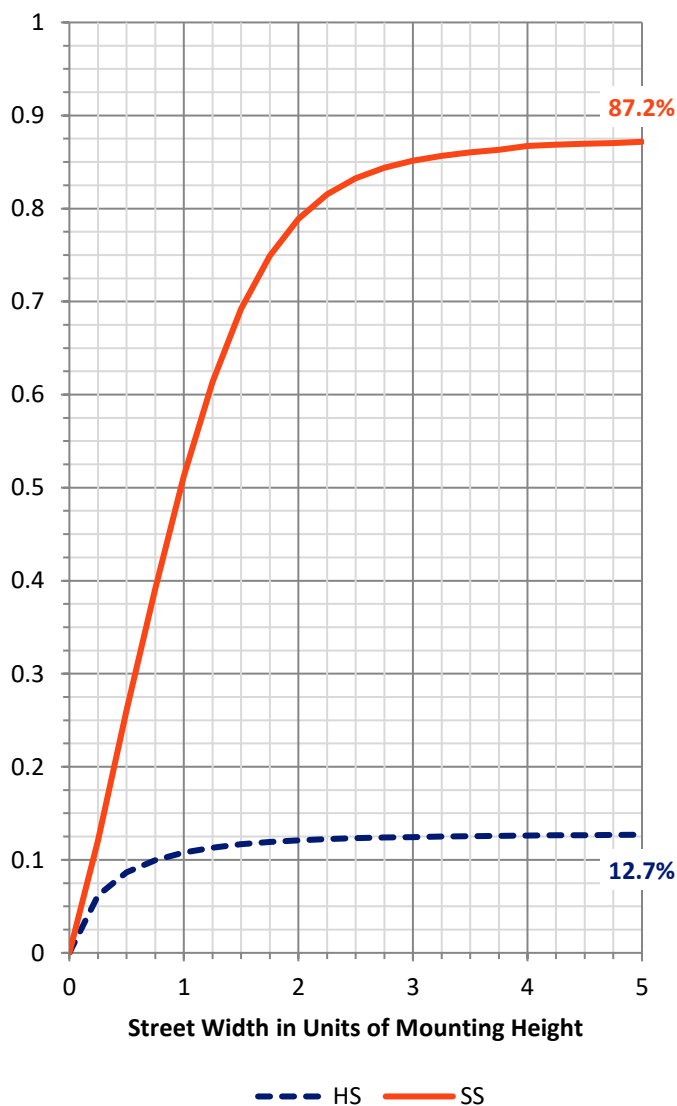
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	983.3	0.0	983.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6675.7	0.0	6675.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	7659.0	0.0	7659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	1.6
10°-20°	364.6	4.8
20°-30°	627.3	8.2
30°-40°	951.4	12.4
40°-50°	1393.8	18.2
50°-60°	1760.0	23.0
60°-70°	1650.3	21.5
70°-80°	735.6	9.6
80°-90°	54.5	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°	7659.0	100.0
0°-180°	7659.0	100.0

Coefficient of Utilization



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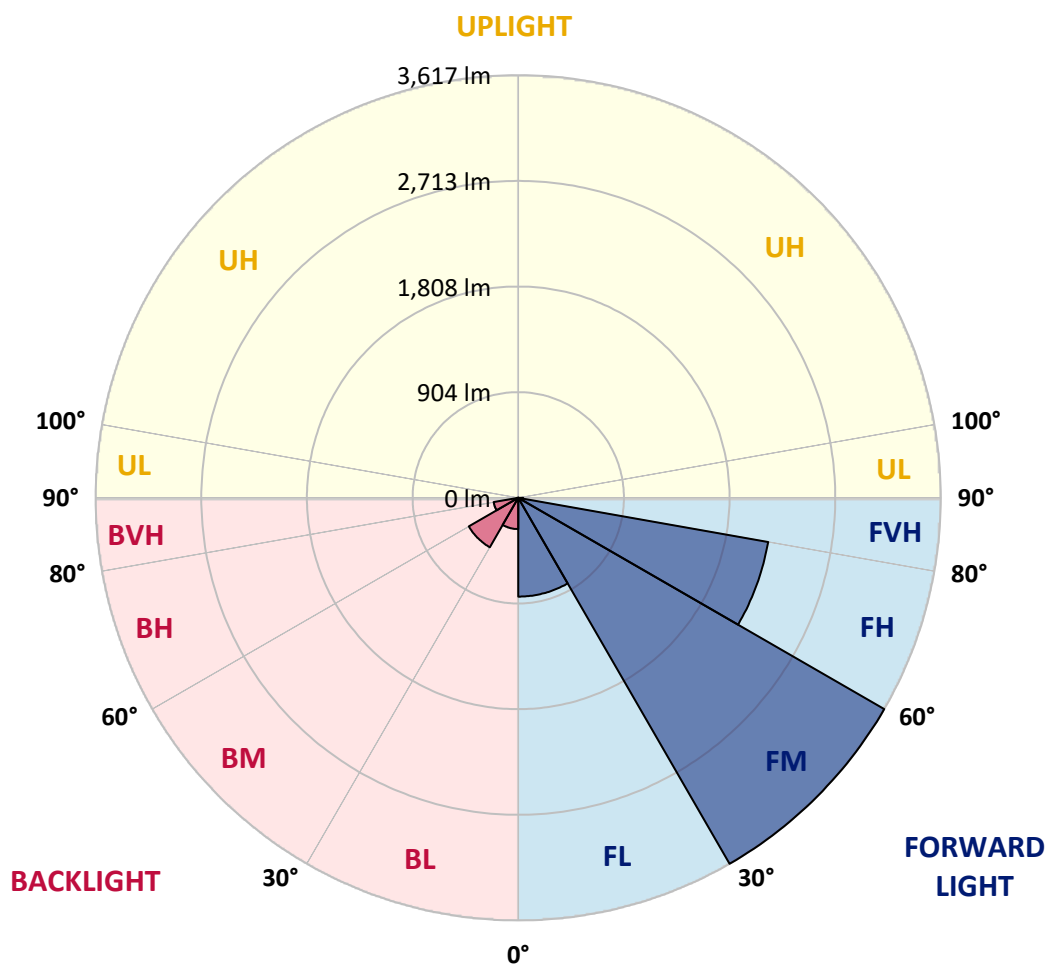
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	845.8	11.0			
FM	(30°-60°)	3616.9	47.2			
FH	(60°-80°)	2172.3	28.4			G2/5000
FVH	(80°-90°)	40.7	0.5			G1/100
BL	(0°-30°)	267.6	3.5	B1/500		
BM	(30°-60°)	488.3	6.4	B1/1000		
BH	(60°-80°)	213.6	2.8	B1/500		G1/500
BVH	(80°-90°)	13.8	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1505.3	1500.5	1497.3	1479.5	1479.5	1455.3	1456.9	1434.3	1406.8	1363.2	1316.4
5°	1647.5	1641.0	1632.9	1615.2	1608.7	1584.5	1581.2	1548.9	1502.1	1426.2	1342.2
7.5°	1771.8	1765.4	1754.1	1728.2	1710.5	1681.4	1673.3	1631.3	1579.6	1486.0	1368.0
10°	1884.9	1880.1	1865.5	1833.2	1809.0	1773.5	1758.9	1702.4	1637.8	1534.4	1389.0
12.5°	1999.6	1993.1	1973.7	1946.3	1917.2	1875.2	1857.4	1784.8	1702.4	1587.7	1419.7
15°	2106.2	2096.5	2081.9	2052.9	2027.0	1986.7	1967.3	1881.7	1781.5	1647.5	1460.1
17.5°	2175.6	2167.6	2154.6	2138.5	2117.5	2086.8	2067.4	1983.4	1860.7	1705.6	1502.1
20°	2217.6	2214.4	2209.5	2199.9	2190.2	2169.2	2154.6	2075.5	1946.3	1762.1	1542.5
22.5°	2249.9	2246.7	2245.1	2245.1	2246.7	2238.6	2228.9	2161.1	2028.6	1821.9	1579.6
25°	2300.0	2298.4	2295.1	2291.9	2303.2	2304.8	2301.6	2254.8	2132.0	1901.0	1626.5
27.5°	2369.4	2364.6	2358.1	2354.9	2366.2	2374.3	2380.8	2348.5	2241.8	1981.8	1679.8
30°	2476.0	2461.5	2445.4	2434.1	2442.1	2455.1	2469.6	2450.2	2354.9	2081.9	1734.7
32.5°	2602.0	2584.3	2547.1	2526.1	2547.1	2556.8	2568.1	2558.4	2472.8	2190.2	1789.6
35°	2755.5	2734.5	2695.7	2665.0	2702.2	2681.2	2676.3	2666.6	2584.3	2296.8	1851.0
37.5°	3010.7	2980.0	2918.6	2850.8	2850.8	2805.5	2787.8	2758.7	2684.4	2392.1	1910.7
40°	3306.2	3265.9	3186.7	3086.6	2994.5	2900.8	2889.5	2868.5	2802.3	2501.9	1978.6
42.5°	3630.9	3553.4	3443.5	3322.4	3173.8	3067.2	3041.4	2981.6	2917.0	2613.3	2046.4
45°	3991.1	3829.6	3669.7	3608.3	3362.8	3265.9	3217.4	3109.2	3036.5	2729.6	2117.5
47.5°	4049.2	3923.2	3816.6	3806.9	3538.8	3458.1	3403.2	3248.1	3165.7	2854.0	2191.8
50°	4016.9	3941.0	3952.3	3913.5	3668.0	3614.7	3572.7	3396.7	3293.3	2973.5	2259.6
52.5°	3881.2	3923.2	3987.8	3916.8	3790.8	3747.2	3726.2	3556.6	3412.8	3083.4	2321.0
55°	3719.7	3748.8	3887.7	3974.9	3932.9	3894.2	3874.8	3742.3	3530.8	3175.4	2377.5
57.5°	3483.9	3471.0	3624.4	3965.2	4081.5	4058.9	4037.9	3924.9	3640.6	3241.6	2413.1
60°	3130.2	3102.7	3296.6	3771.4	4130.0	4165.5	4155.8	4046.0	3724.6	3240.0	2398.5
62.5°	2518.0	2585.9	2854.0	3454.8	4151.0	4241.4	4223.7	4055.7	3752.0	3146.3	2306.5
65°	1872.0	1968.9	2232.2	3018.7	4121.9	4280.2	4231.7	3897.4	3624.4	2960.6	2104.6
67.5°	1348.7	1434.3	1626.5	2484.1	3842.5	4102.5	4046.0	3639.0	3330.5	2697.3	1825.1
70°	922.3	983.6	1114.5	1809.0	3280.4	3546.9	3511.4	3252.9	2866.9	2384.0	1482.7
72.5°	650.9	676.8	760.7	1193.6	2492.2	2782.9	2740.9	2676.3	2303.2	1981.8	1153.2
75°	487.8	503.9	549.2	772.0	1681.4	1928.5	1889.7	1926.9	1720.2	1500.5	839.9
77.5°	184.1	200.3	311.7	492.6	994.9	1183.9	1145.2	1167.8	956.2	757.5	418.3
80°	50.1	53.3	103.4	234.2	452.2	589.5	536.2	460.3	355.3	348.9	221.3
82.5°	21.0	24.2	46.8	126.0	161.5	161.5	135.7	168.0	135.7	163.1	106.6
85°	8.1	9.7	11.3	32.3	21.0	22.6	24.2	32.3	27.5	33.9	24.2
87.5°	0.0	0.0	0.0	1.6	1.6	3.2	1.6	3.2	4.8	4.8	4.8
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°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1297.0	1279.2	1253.4	1211.4	1167.8	1143.5	1112.8	1108.0	1075.7	1072.5	1059.5
5°	1305.1	1267.9	1201.7	1120.9	1041.8	980.4	935.2	911.0	864.1	864.1	851.2
7.5°	1311.5	1253.4	1146.8	1027.2	919.0	836.7	775.3	749.4	707.4	704.2	694.5
10°	1313.1	1235.6	1087.0	932.0	799.5	715.5	655.8	626.7	589.5	586.3	579.8
12.5°	1326.1	1225.9	1033.7	849.6	713.9	623.5	565.3	541.1	512.0	508.8	502.3
15°	1347.0	1225.9	988.5	780.1	638.0	554.0	503.9	481.3	460.3	457.1	453.9
17.5°	1368.0	1222.7	943.3	715.5	575.0	499.1	455.5	437.7	421.6	419.9	416.7
20°	1387.4	1221.1	898.0	660.6	526.5	453.9	419.9	403.8	390.9	390.9	389.3
22.5°	1406.8	1217.8	854.4	608.9	484.5	419.9	390.9	373.1	363.4	363.4	361.8
25°	1435.9	1217.8	814.0	565.3	450.6	394.1	365.0	352.1	344.0	342.4	342.4
27.5°	1469.8	1227.5	778.5	526.5	421.6	368.3	345.6	332.7	323.0	319.8	321.4
30°	1506.9	1235.6	746.2	492.6	394.1	348.9	324.6	311.7	302.0	298.8	300.4
32.5°	1544.1	1245.3	717.1	461.9	366.6	331.1	306.9	292.3	282.7	281.0	281.0
35°	1584.5	1255.0	688.1	436.1	344.0	313.3	290.7	274.6	268.1	264.9	266.5
37.5°	1624.9	1271.1	660.6	411.9	327.9	297.2	276.2	260.0	255.2	253.6	253.6
40°	1673.3	1295.4	649.3	395.7	313.3	282.7	264.9	248.7	243.9	243.9	243.9
42.5°	1713.7	1314.7	639.6	377.9	302.0	269.7	253.6	240.7	237.4	235.8	237.4
45°	1754.1	1332.5	626.7	361.8	287.5	256.8	243.9	231.0	227.7	227.7	227.7
47.5°	1794.4	1342.2	608.9	345.6	274.6	245.5	234.2	222.9	219.7	219.7	219.7
50°	1826.8	1350.3	583.1	327.9	260.0	235.8	224.5	213.2	210.0	210.0	210.0
52.5°	1859.1	1351.9	555.6	306.9	245.5	224.5	214.8	203.5	200.3	198.7	198.7
55°	1888.1	1350.3	523.3	282.7	229.4	211.6	203.5	193.8	187.4	180.9	184.1
57.5°	1909.1	1348.7	486.2	258.4	213.2	198.7	195.4	182.5	169.6	153.4	156.7
60°	1901.0	1330.9	445.8	227.7	195.4	185.7	185.7	168.0	145.4	137.3	138.9
62.5°	1849.4	1280.8	403.8	195.4	177.7	172.8	171.2	151.8	134.1	126.0	127.6
65°	1694.3	1154.8	342.4	166.4	159.9	158.3	158.3	140.5	124.4	114.7	116.3
67.5°	1458.5	969.1	279.4	140.5	142.1	145.4	145.4	129.2	113.1	103.4	105.0
70°	1169.4	757.5	222.9	121.1	122.8	127.6	130.8	116.3	101.8	92.1	92.1
72.5°	880.3	575.0	179.3	101.8	109.8	109.8	114.7	103.4	88.8	79.1	80.8
75°	638.0	411.9	142.1	85.6	95.3	93.7	93.7	87.2	75.9	69.5	69.5
77.5°	302.0	216.4	113.1	61.4	74.3	72.7	74.3	69.5	64.6	58.1	59.8
80°	148.6	106.6	72.7	43.6	51.7	53.3	58.1	54.9	53.3	48.5	48.5
82.5°	71.1	42.0	33.9	30.7	35.5	37.1	40.4	40.4	42.0	38.8	38.8
85°	19.4	11.3	14.5	19.4	22.6	24.2	27.5	29.1	29.1	27.5	29.1
87.5°	4.8	4.8	6.5	9.7	11.3	12.9	14.5	14.5	6.5	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)