

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: P842562

Luminaire Tested: **ARCH4-60-750-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842562
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: ARCH4-60-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 520mA 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: 7884 lumens
Efficiency: N/A
Efficacy: 125.1 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

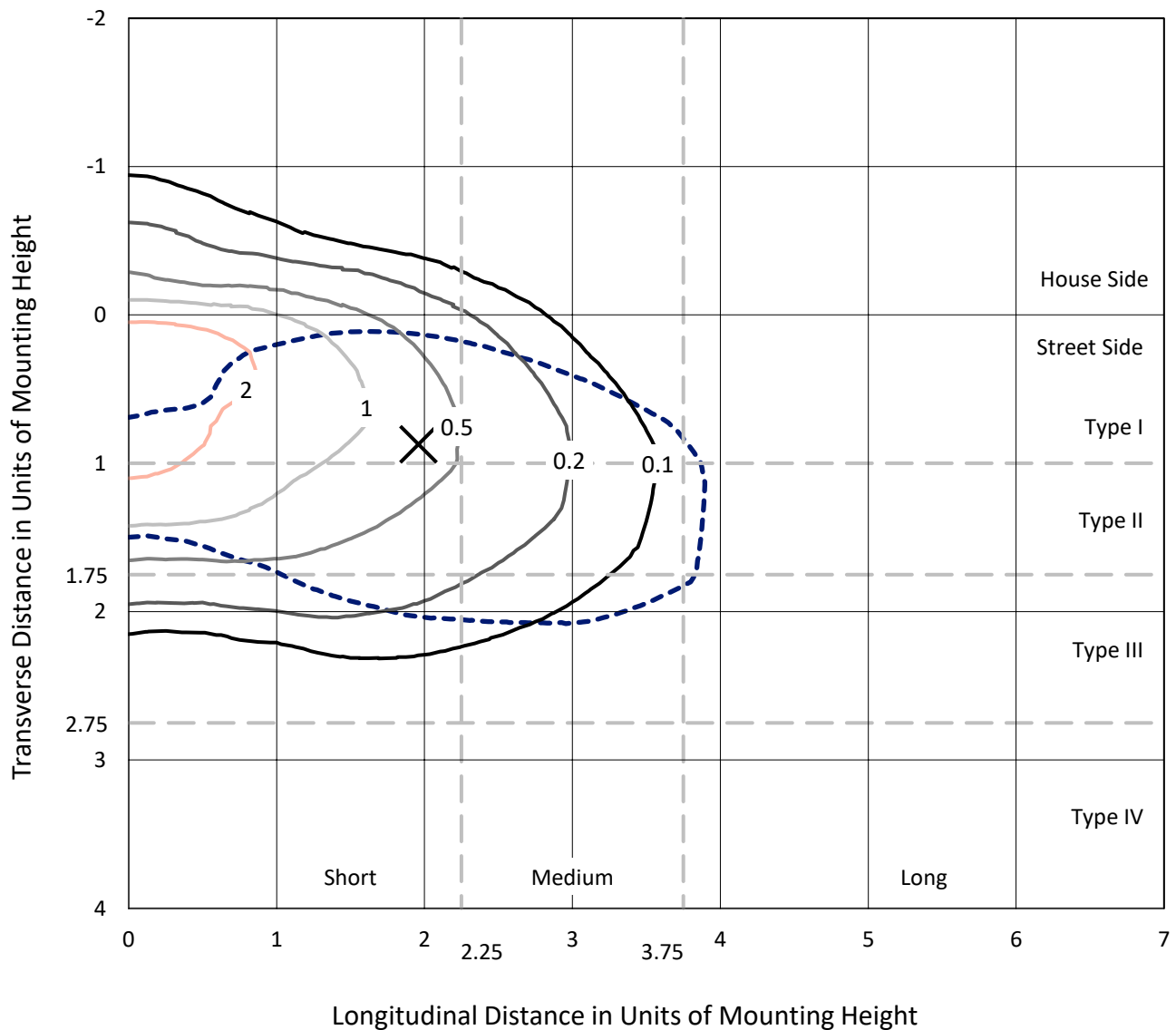


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



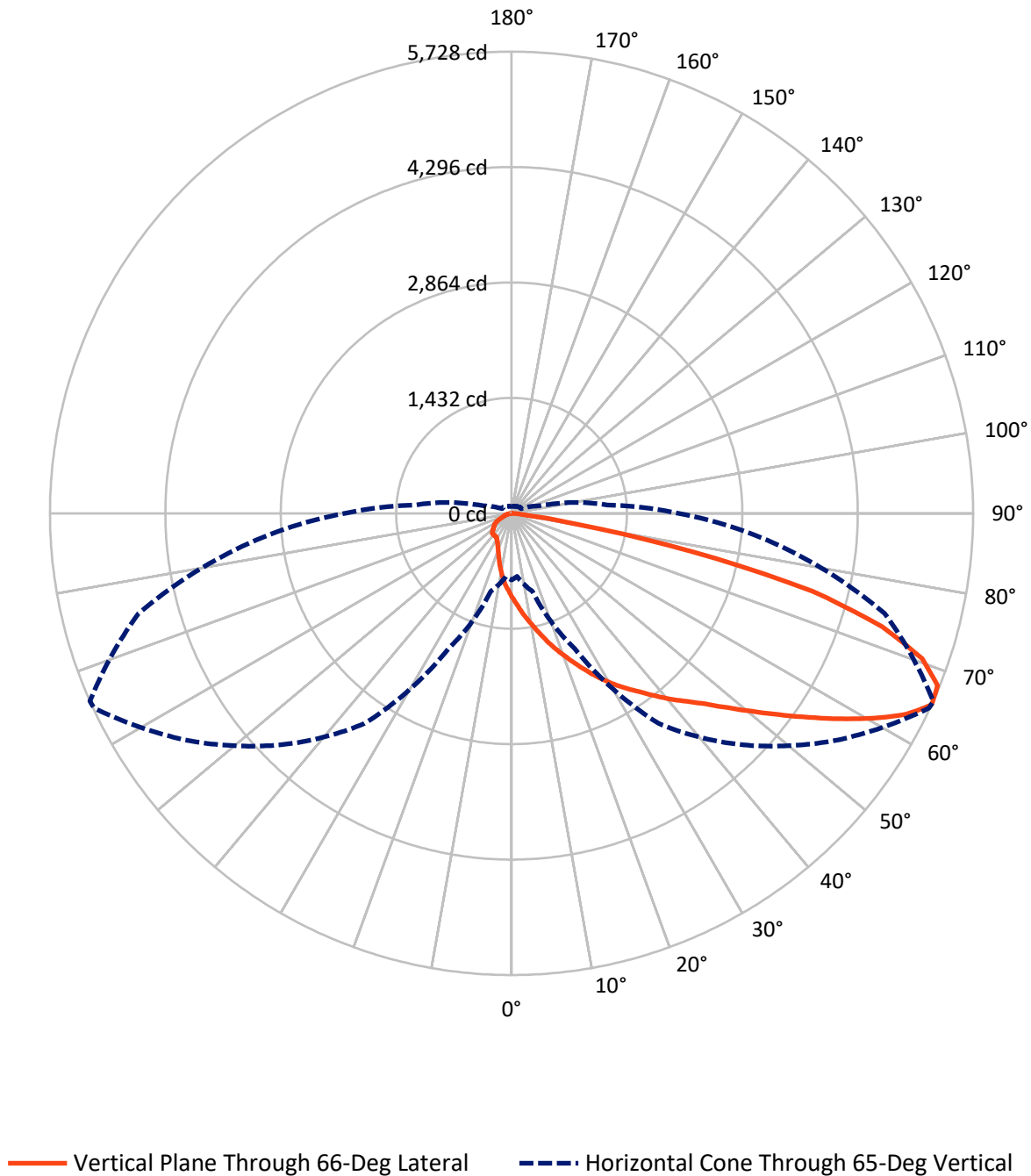
Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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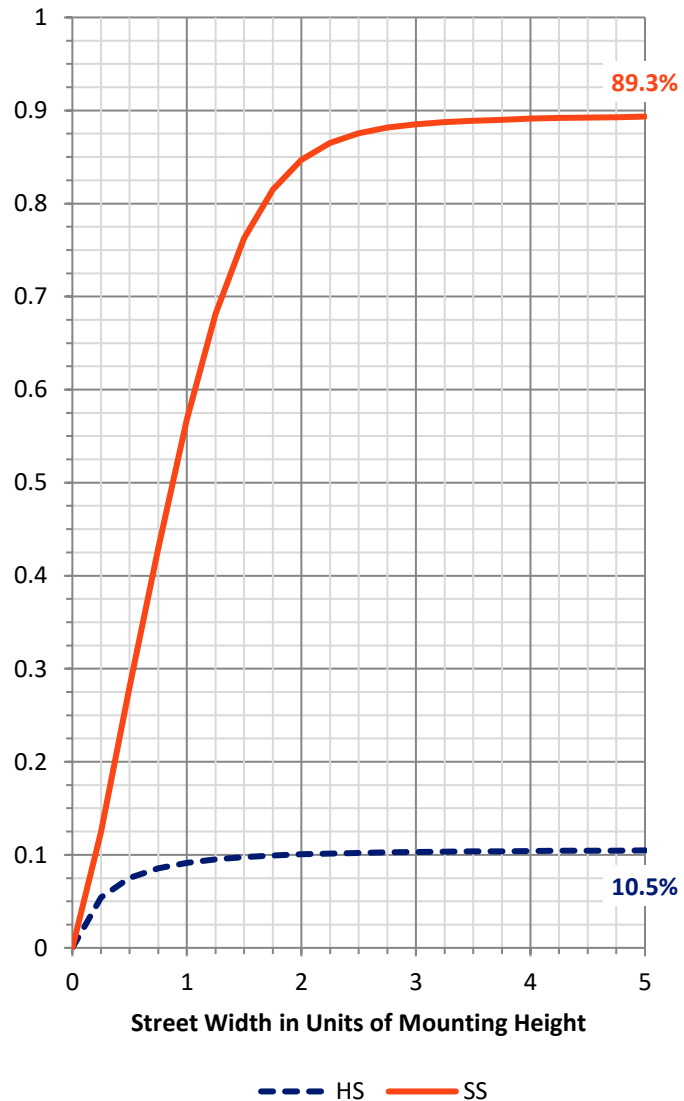
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	833.9	0.0	833.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7050.1	0.0	7050.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	7884.0	0.0	7884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	1.3
10°-20°	335.7	4.3
20°-30°	607.3	7.7
30°-40°	949.7	12.0
40°-50°	1440.6	18.3
50°-60°	1830.4	23.2
60°-70°	1710.3	21.7
70°-80°	850.0	10.8
80°-90°	57.1	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°	7884.0	100.0
0°-180°	7884.0	100.0

Coefficient of Utilization



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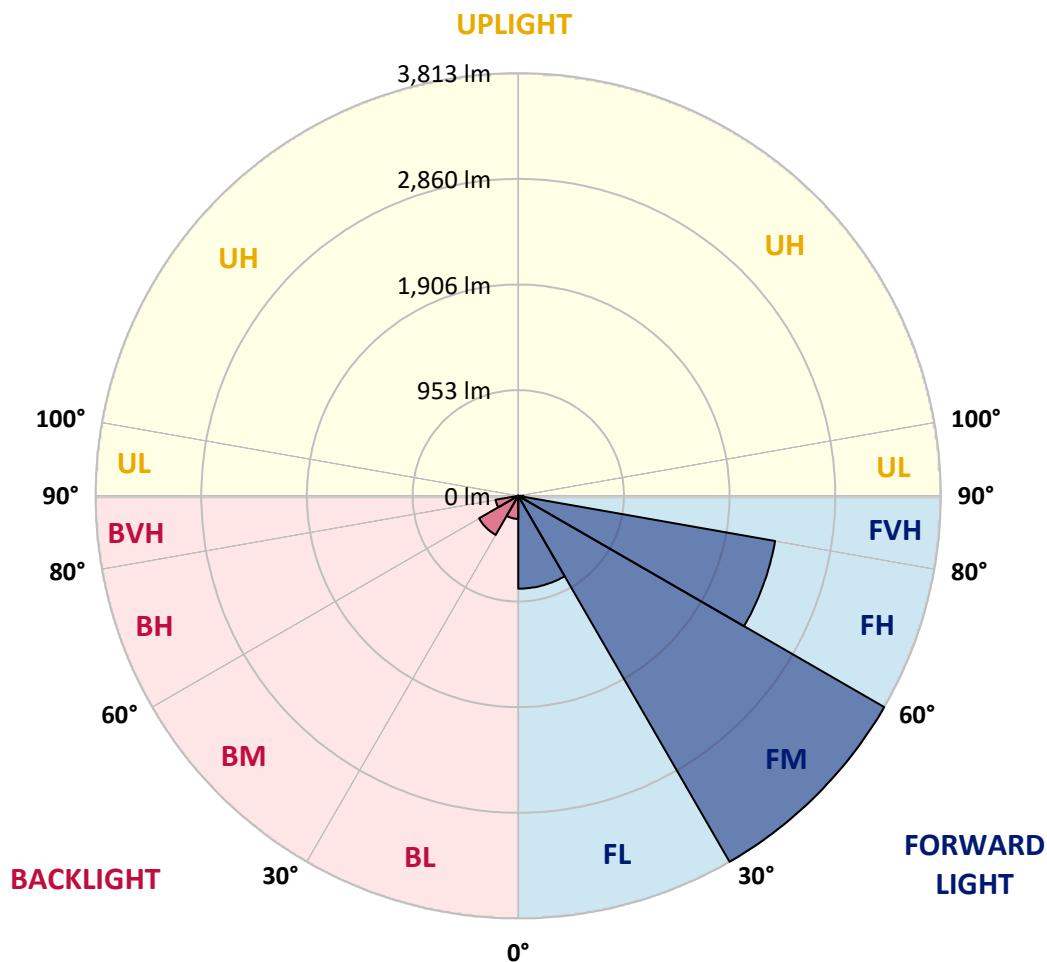
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	837.7	10.6			
FM	(30°-60°)	3812.8	48.4			
FH	(60°-80°)	2352.6	29.8			G2/5000
FVH	(80°-90°)	47.0	0.6			G1/100
BL	(0°-30°)	208.3	2.6	B1/500		
BM	(30°-60°)	407.9	5.2	B1/1000		
BH	(60°-80°)	207.7	2.6	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			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°	45°	55°	65°	66°	75°	85°
0°	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4
2.5°	1218.7	1228.6	1233.6	1235.2	1197.2	1180.7	1164.1	1126.1	1117.8	1096.3	1068.2
5°	1433.6	1446.9	1443.6	1437.0	1390.7	1337.7	1294.7	1223.6	1212.1	1160.8	1098.0
7.5°	1645.3	1656.9	1653.6	1628.8	1577.5	1503.1	1432.0	1327.8	1311.3	1228.6	1127.7
10°	1822.2	1832.2	1830.5	1805.7	1744.5	1653.6	1567.6	1428.7	1408.8	1291.4	1152.5
12.5°	1967.8	1981.0	1979.3	1962.8	1908.2	1809.0	1711.4	1544.4	1519.6	1367.5	1187.3
15°	2081.8	2098.4	2098.4	2091.8	2053.7	1971.1	1860.3	1671.8	1642.0	1455.1	1230.3
17.5°	2151.3	2164.5	2176.1	2187.7	2161.2	2098.4	1997.5	1799.1	1767.7	1541.1	1274.9
20°	2187.7	2200.9	2209.2	2234.0	2238.9	2207.5	2128.1	1924.8	1891.7	1638.7	1326.2
22.5°	2247.2	2258.8	2260.4	2281.9	2291.9	2300.1	2250.5	2048.8	2022.3	1746.2	1384.0
25°	2346.4	2359.6	2354.7	2364.6	2366.3	2376.2	2371.2	2191.0	2164.5	1868.5	1453.5
27.5°	2473.7	2490.3	2487.0	2477.1	2462.2	2453.9	2475.4	2334.8	2310.0	1990.9	1524.6
30°	2611.0	2630.8	2625.9	2606.0	2566.3	2531.6	2561.4	2470.4	2447.3	2116.6	1604.0
32.5°	2749.9	2773.0	2771.4	2738.3	2670.5	2611.0	2655.6	2597.8	2581.2	2252.2	1690.0
35°	2840.8	2870.6	2867.3	2847.5	2759.8	2708.6	2763.1	2728.4	2716.8	2417.5	1814.0
37.5°	2988.0	3019.4	2991.3	2941.7	2840.8	2814.4	2880.5	2875.6	2867.3	2592.8	1944.6
40°	3345.2	3391.5	3317.1	3113.7	2948.3	2925.2	3019.4	3039.3	3031.0	2766.4	2062.0
42.5°	3718.9	3788.3	3672.6	3391.5	3143.4	3059.1	3171.6	3199.7	3189.7	2915.2	2167.8
45°	3945.4	3975.2	3859.4	3641.2	3489.0	3221.2	3333.6	3379.9	3371.6	3093.8	2303.4
47.5°	4130.6	4119.0	3986.8	3839.6	3867.7	3449.4	3517.1	3608.1	3601.5	3290.6	2452.2
50°	4170.3	4143.9	4090.9	3998.3	4072.7	3680.9	3710.6	3867.7	3861.1	3508.9	2602.7
52.5°	3890.9	3856.1	4000.0	4077.7	4052.9	3849.5	3923.9	4152.1	4148.8	3745.3	2746.6
55°	3193.0	3164.9	3551.9	3953.7	4031.4	3968.6	4160.4	4448.1	4466.3	3996.7	2877.2
57.5°	2511.8	2482.0	2862.3	3642.8	3952.0	4077.7	4436.5	4787.1	4810.2	4269.5	3001.2
60°	2002.5	1957.8	2248.9	3153.4	3803.2	4162.0	4702.8	5159.1	5162.5	4519.2	3077.3
62.5°	1360.9	1311.3	1633.7	2533.3	3553.5	4175.3	4907.8	5479.9	5493.2	4706.1	3090.5
65°	826.8	785.4	1003.7	1850.3	3184.8	4062.8	4911.1	5716.4	5728.0	4792.1	3011.2
67.5°	479.5	463.0	573.8	1152.5	2573.0	3760.2	4704.4	5680.0	5701.5	4755.7	2830.9
70°	279.5	277.8	319.1	570.5	1815.6	3160.0	4243.1	5374.1	5405.5	4565.5	2554.8
72.5°	205.0	208.4	224.9	305.9	1051.7	2275.3	3593.2	4759.0	4806.9	4193.5	2161.2
75°	162.1	163.7	178.6	208.4	552.3	1286.5	2692.0	3819.8	3857.8	3530.4	1688.3
77.5°	120.7	124.0	135.6	147.2	256.3	590.3	1514.7	2353.0	2290.2	1938.0	815.2
80°	87.6	95.9	100.9	105.8	135.6	228.2	454.7	820.2	813.6	846.6	385.3
82.5°	56.2	62.8	67.8	71.1	81.0	109.1	135.6	183.5	198.4	329.1	153.8
85°	24.8	28.1	31.4	38.0	34.7	38.0	56.2	36.4	31.4	49.6	28.1
87.5°	0.0	0.0	5.0	8.3	6.6	3.3	9.9	6.6	5.0	5.0	5.0
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°	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4	1043.4
2.5°	1053.3	1035.1	997.1	960.7	939.2	911.1	886.3	863.2	861.5	854.9	843.3
5°	1066.6	1031.8	960.7	892.9	841.7	787.1	740.8	704.4	691.2	681.3	668.0
7.5°	1079.8	1025.2	919.4	820.2	739.1	663.1	608.5	558.9	544.0	530.8	522.5
10°	1084.7	1013.6	871.4	739.1	633.3	552.3	494.4	458.0	444.8	438.2	433.2
12.5°	1099.6	1007.0	826.8	663.1	540.7	466.3	425.0	403.5	398.5	393.6	388.6
15°	1119.5	1007.0	782.1	588.7	468.0	408.4	383.6	368.7	365.4	363.8	360.5
17.5°	1141.0	1007.0	739.1	525.8	415.0	370.4	352.2	343.9	342.3	340.6	339.0
20°	1170.7	1008.7	692.8	471.3	377.0	342.3	327.4	317.5	315.8	314.2	314.2
22.5°	1200.5	1012.0	648.2	429.9	352.2	320.8	302.6	292.7	289.4	289.4	289.4
25°	1238.5	1021.9	606.9	395.2	330.7	301.0	277.8	269.5	267.9	267.9	266.2
27.5°	1283.2	1033.5	570.5	368.7	309.2	277.8	254.7	246.4	243.1	243.1	241.4
30°	1331.1	1045.1	540.7	348.9	287.7	254.7	233.2	223.2	219.9	221.6	219.9
32.5°	1384.0	1061.6	517.6	335.7	267.9	234.8	215.0	203.4	201.7	201.7	200.1
35°	1473.3	1107.9	514.3	329.1	251.3	219.9	200.1	188.5	186.9	186.9	185.2
37.5°	1569.2	1160.8	529.1	325.8	238.1	206.7	188.5	176.9	175.3	175.3	175.3
40°	1650.3	1200.5	545.7	325.8	229.8	195.1	178.6	168.7	168.7	168.7	168.7
42.5°	1704.8	1203.8	542.4	325.8	223.2	186.9	172.0	162.1	162.1	163.7	162.1
45°	1785.9	1220.3	529.1	320.8	218.3	180.2	165.4	157.1	155.4	157.1	157.1
47.5°	1881.8	1250.1	515.9	301.0	216.6	173.6	160.4	150.5	148.8	150.5	148.8
50°	1972.7	1276.6	509.3	274.5	213.3	167.0	153.8	143.9	142.2	143.9	142.2
52.5°	2048.8	1288.1	497.7	256.3	205.0	160.4	147.2	137.2	133.9	135.6	135.6
55°	2110.0	1284.8	481.2	241.4	190.2	153.8	138.9	130.6	125.7	125.7	124.0
57.5°	2166.2	1286.5	466.3	226.5	173.6	143.9	132.3	122.4	115.8	114.1	112.4
60°	2187.7	1278.2	439.9	206.7	157.1	135.6	124.0	112.4	105.8	104.2	102.5
62.5°	2157.9	1248.4	405.1	172.0	142.2	125.7	115.8	104.2	97.6	95.9	94.3
65°	2073.6	1192.2	352.2	135.6	129.0	114.1	105.8	97.6	89.3	86.0	84.3
67.5°	1929.7	1111.2	286.1	109.1	114.1	104.2	99.2	89.3	79.4	76.1	74.4
70°	1724.7	1003.7	215.0	92.6	100.9	92.6	89.3	79.4	71.1	67.8	66.1
72.5°	1437.0	830.1	150.5	79.4	87.6	81.0	77.7	71.1	62.8	57.9	57.9
75°	1086.4	595.3	99.2	67.8	72.8	69.5	64.5	59.5	54.6	51.3	49.6
77.5°	468.0	231.5	61.2	51.3	59.5	57.9	51.3	48.0	46.3	43.0	43.0
80°	201.7	94.3	38.0	38.0	43.0	41.3	39.7	36.4	36.4	34.7	33.1
82.5°	74.4	38.0	23.2	28.1	31.4	28.1	28.1	28.1	28.1	26.5	26.5
85°	18.2	11.6	11.6	16.5	18.2	16.5	18.2	16.5	16.5	16.5	14.9
87.5°	5.0	5.0	6.6	6.6	6.6	6.6	6.6	5.0	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)