

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: P836040

Luminaire Tested: **ARCH3-130-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13347 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132.6
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



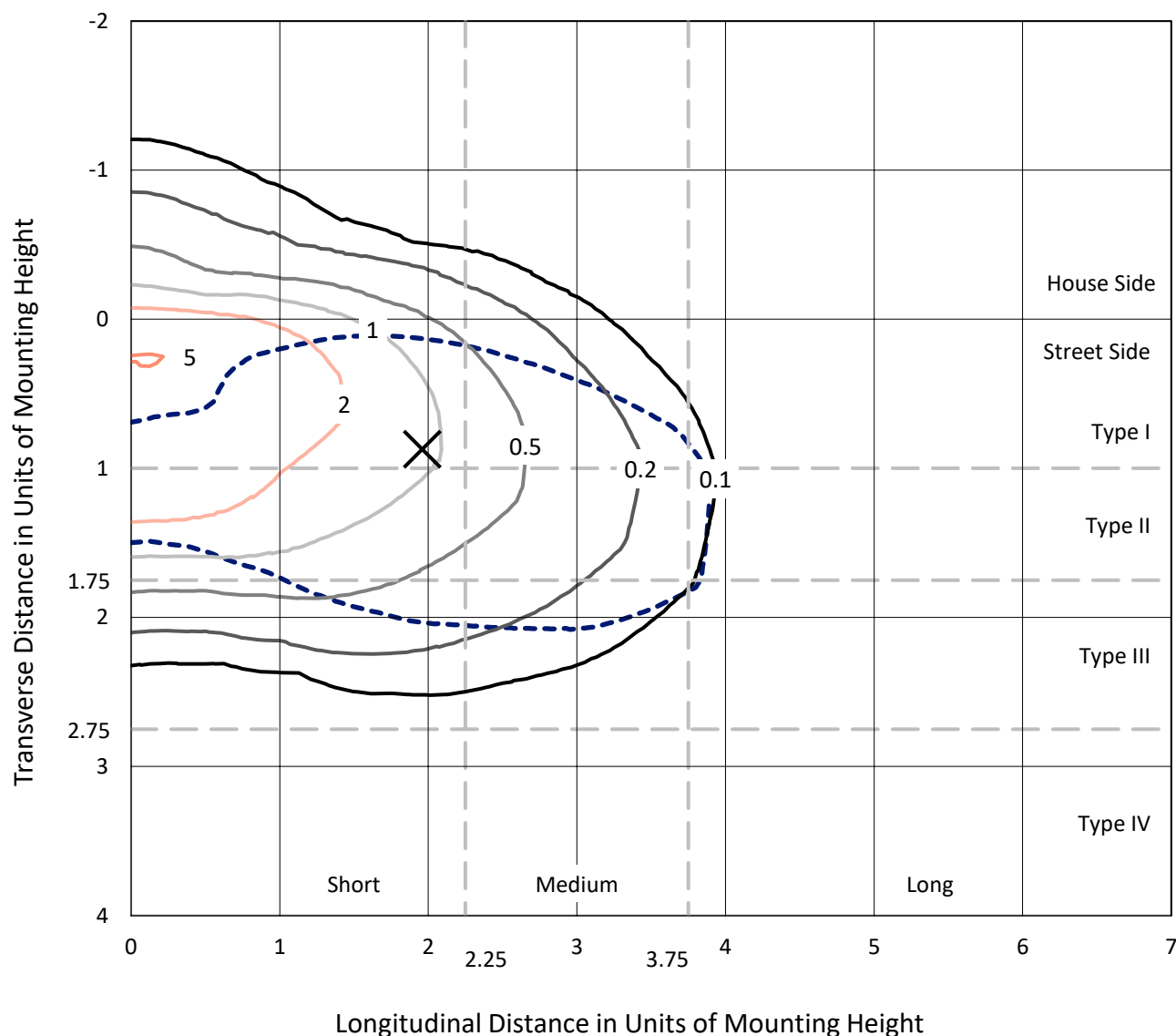
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

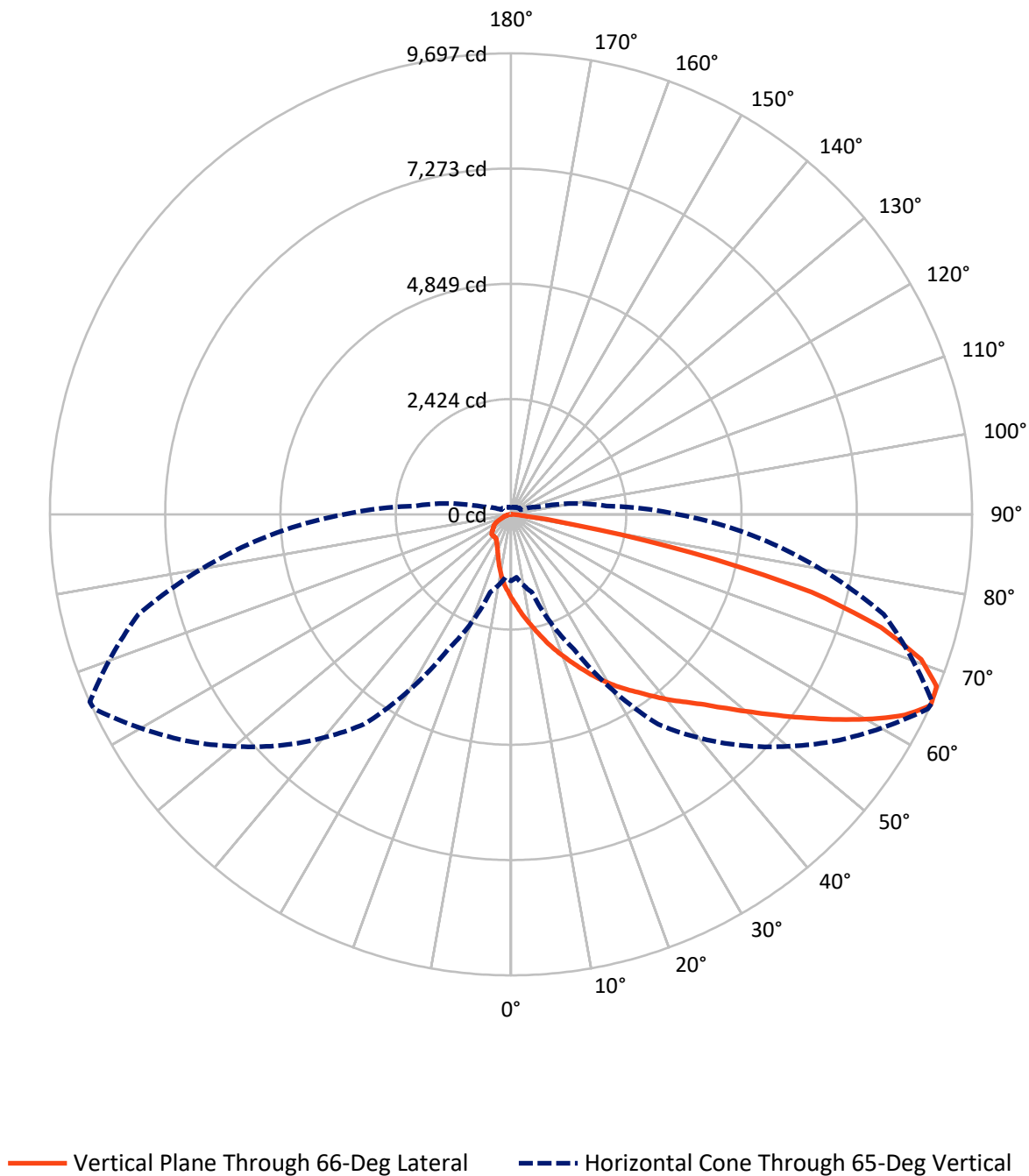


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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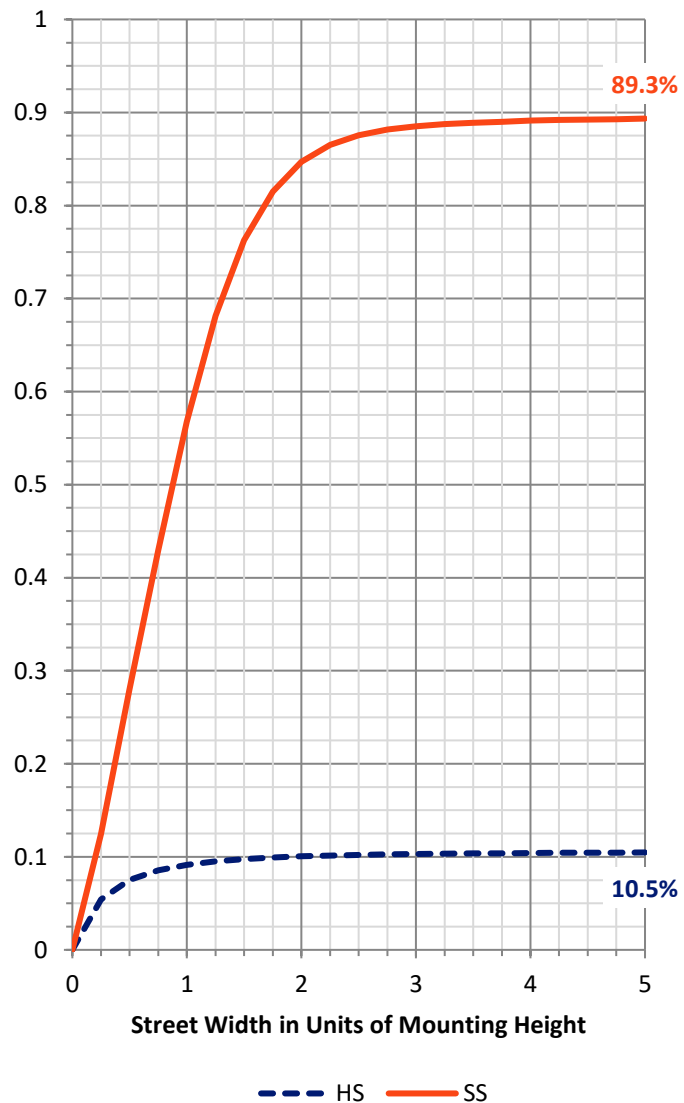
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1411.8	0.0	1411.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	11935.2	0.0	11935.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	13347.0	0.0	13347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	1.3
10°-20°	568.2	4.3
20°-30°	1028.1	7.7
30°-40°	1607.7	12.0
40°-50°	2438.9	18.3
50°-60°	3098.7	23.2
60°-70°	2895.4	21.7
70°-80°	1439.0	10.8
80°-90°	96.7	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°	13347.0	100.0
0°-180°	13347.0	100.0

Coefficient of Utilization



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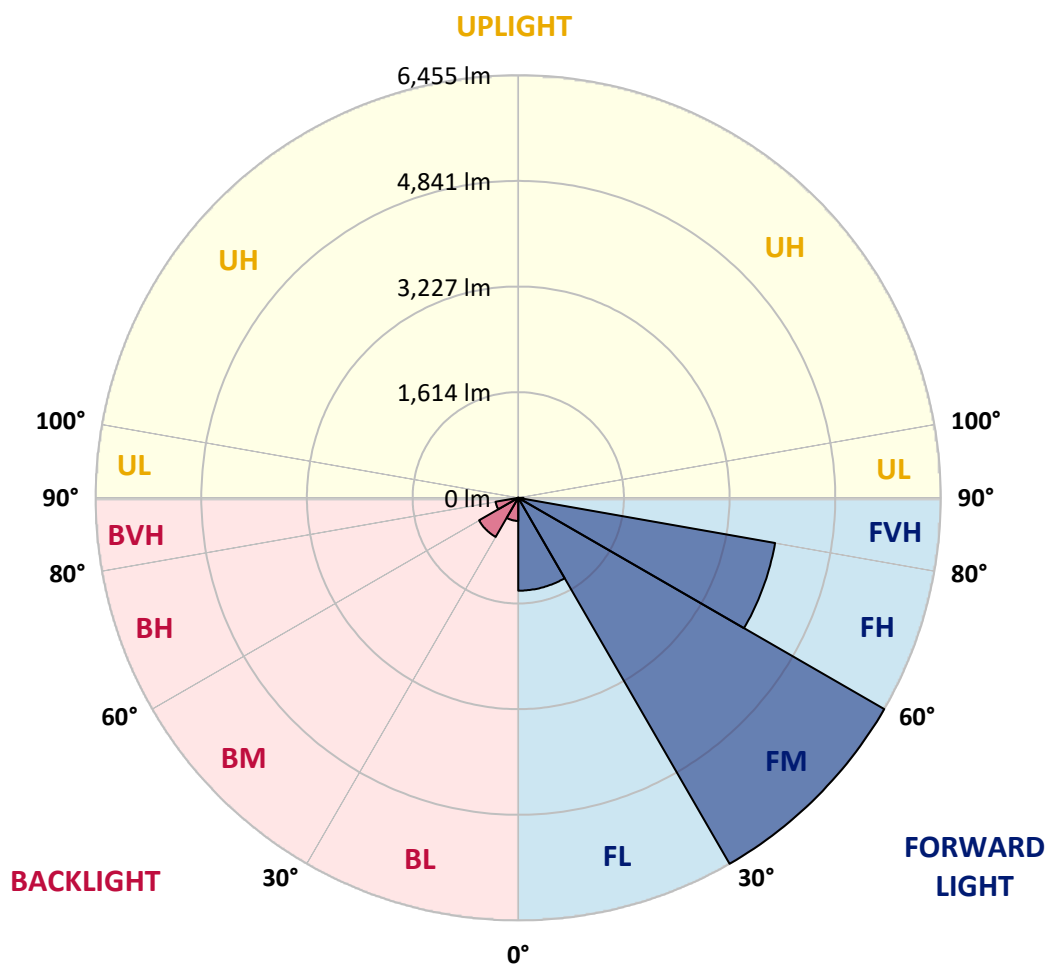
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1418.1	10.6			
FM	(30°-60°)	6454.8	48.4			
FH	(60°-80°)	3982.8	29.8			G2/5000
FVH	(80°-90°)	79.6	0.6			G1/100
BL	(0°-30°)	352.6	2.6	B1/500		
BM	(30°-60°)	690.5	5.2	B1/1000		
BH	(60°-80°)	351.6	2.6	B1/500		G1/500
BVH	(80°-90°)	17.1	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°	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4
2.5°	2063.1	2079.9	2088.3	2091.1	2026.7	1998.7	1970.8	1906.4	1892.4	1856.0	1808.4
5°	2427.1	2449.4	2443.8	2432.7	2354.3	2264.7	2191.9	2071.5	2051.9	1965.2	1858.8
7.5°	2785.4	2805.0	2799.4	2757.4	2670.6	2544.6	2424.3	2247.9	2219.9	2079.9	1909.2
10°	3084.9	3101.7	3098.9	3056.9	2953.3	2799.4	2653.8	2418.7	2385.1	2186.3	1951.2
12.5°	3331.2	3353.6	3350.8	3322.9	3230.5	3062.5	2897.3	2614.6	2572.6	2315.1	2009.9
15°	3524.4	3552.4	3552.4	3541.2	3476.8	3336.8	3149.3	2830.2	2779.8	2463.4	2082.7
17.5°	3642.0	3664.4	3684.0	3703.6	3658.8	3552.4	3381.6	3045.7	2992.5	2609.0	2158.3
20°	3703.6	3726.0	3740.0	3781.9	3790.3	3737.2	3602.8	3258.5	3202.5	2774.2	2245.1
22.5°	3804.3	3823.9	3826.7	3863.1	3879.9	3893.9	3809.9	3468.4	3423.6	2956.1	2343.1
25°	3972.3	3994.7	3986.3	4003.1	4005.9	4022.7	4014.3	3709.2	3664.4	3163.3	2460.6
27.5°	4187.9	4215.9	4210.3	4193.5	4168.3	4154.3	4190.7	3952.7	3910.7	3370.4	2581.0
30°	4420.2	4453.8	4445.4	4411.8	4344.6	4285.8	4336.2	4182.3	4143.1	3583.2	2715.4
32.5°	4655.4	4694.5	4691.7	4635.8	4521.0	4420.2	4495.8	4397.8	4369.8	3812.7	2861.0
35°	4809.3	4859.7	4854.1	4820.5	4672.1	4585.4	4677.7	4619.0	4599.4	4092.7	3070.9
37.5°	5058.5	5111.6	5064.1	4980.1	4809.3	4764.5	4876.5	4868.1	4854.1	4389.4	3292.1
40°	5663.1	5741.5	5615.5	5271.2	4991.3	4952.1	5111.6	5145.2	5131.2	4683.3	3490.8
42.5°	6295.8	6413.4	6217.4	5741.5	5321.6	5178.8	5369.2	5416.8	5400.0	4935.3	3670.0
45°	6679.3	6729.7	6533.7	6164.2	5906.7	5453.2	5643.5	5721.9	5707.9	5237.6	3899.5
47.5°	6992.8	6973.2	6749.3	6500.1	6547.7	5839.5	5954.3	6108.2	6097.0	5570.7	4151.5
50°	7060.0	7015.2	6925.6	6768.9	6894.8	6231.4	6281.8	6547.7	6536.5	5940.3	4406.2
52.5°	6586.9	6528.1	6771.7	6903.2	6861.3	6516.9	6642.9	7029.2	7023.6	6340.6	4649.8
55°	5405.6	5358.0	6013.0	6693.3	6824.9	6718.5	7043.2	7530.3	7561.1	6766.1	4870.9
57.5°	4252.2	4201.9	4845.7	6167.0	6690.5	6903.2	7510.7	8104.2	8143.4	7228.0	5080.9
60°	3390.0	3314.5	3807.1	5338.4	6438.6	7046.0	7961.4	8734.0	8739.6	7650.7	5209.6
62.5°	2303.9	2219.9	2765.8	4288.6	6015.8	7068.4	8308.5	9277.1	9299.5	7967.0	5232.0
65°	1399.7	1329.7	1699.2	3132.5	5391.6	6878.1	8314.1	9677.4	9697.0	8112.6	5097.7
67.5°	811.8	783.8	971.4	1951.2	4355.8	6365.8	7964.2	9615.8	9652.2	8051.0	4792.5
70°	473.1	470.3	540.3	965.8	3073.7	5349.6	7183.2	9098.0	9151.1	7729.1	4325.0
72.5°	347.1	352.7	380.7	517.9	1780.4	3851.9	6083.0	8056.6	8137.8	7099.2	3658.8
75°	274.3	277.1	302.3	352.7	935.0	2177.9	4557.4	6466.5	6530.9	5976.7	2858.2
77.5°	204.4	210.0	229.5	249.1	433.9	999.4	2564.2	3983.5	3877.1	3280.9	1380.1
80°	148.4	162.4	170.8	179.2	229.5	386.3	769.8	1388.5	1377.3	1433.3	652.3
82.5°	95.2	106.4	114.8	120.4	137.2	184.8	229.5	310.7	335.9	557.1	260.3
85°	42.0	47.6	53.2	64.4	58.8	64.4	95.2	61.6	53.2	84.0	47.6
87.5°	0.0	0.0	8.4	14.0	11.2	5.6	16.8	11.2	8.4	8.4	8.4
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°	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4
2.5°	1783.2	1752.4	1688.0	1626.4	1590.0	1542.5	1500.5	1461.3	1458.5	1447.3	1427.7
5°	1805.6	1746.8	1626.4	1511.7	1424.9	1332.5	1254.1	1192.5	1170.1	1153.3	1130.9
7.5°	1828.0	1735.6	1556.4	1388.5	1251.3	1122.5	1030.2	946.2	921.0	898.6	884.6
10°	1836.4	1716.0	1475.3	1251.3	1072.2	935.0	837.0	775.4	753.0	741.8	733.4
12.5°	1861.6	1704.8	1399.7	1122.5	915.4	789.4	719.4	683.0	674.6	666.2	657.9
15°	1895.2	1704.8	1324.1	996.6	792.2	691.4	649.5	624.3	618.7	615.9	610.3
17.5°	1931.6	1704.8	1251.3	890.2	702.6	627.1	596.3	582.3	579.5	576.7	573.9
20°	1982.0	1707.6	1172.9	797.8	638.3	579.5	554.3	537.5	534.7	531.9	531.9
22.5°	2032.3	1713.2	1097.4	727.8	596.3	543.1	512.3	495.5	489.9	489.9	489.9
25°	2096.7	1730.0	1027.4	669.0	559.9	509.5	470.3	456.3	453.5	453.5	450.7
27.5°	2172.3	1749.6	965.8	624.3	523.5	470.3	431.1	417.1	411.5	411.5	408.7
30°	2253.5	1769.2	915.4	590.7	487.1	431.1	394.7	377.9	372.3	375.1	372.3
32.5°	2343.1	1797.2	876.2	568.3	453.5	397.5	363.9	344.3	341.5	341.5	338.7
35°	2494.2	1875.6	870.6	557.1	425.5	372.3	338.7	319.1	316.3	316.3	313.5
37.5°	2656.6	1965.2	895.8	551.5	403.1	349.9	319.1	299.5	296.7	296.7	296.7
40°	2793.8	2032.3	923.8	551.5	389.1	330.3	302.3	285.5	285.5	285.5	285.5
42.5°	2886.2	2037.9	918.2	551.5	377.9	316.3	291.1	274.3	274.3	277.1	274.3
45°	3023.3	2065.9	895.8	543.1	369.5	305.1	279.9	265.9	263.1	265.9	265.9
47.5°	3185.7	2116.3	873.4	509.5	366.7	293.9	271.5	254.7	251.9	254.7	251.9
50°	3339.6	2161.1	862.2	464.7	361.1	282.7	260.3	243.5	240.7	243.5	240.7
52.5°	3468.4	2180.7	842.6	433.9	347.1	271.5	249.1	232.3	226.7	229.5	229.5
55°	3572.0	2175.1	814.6	408.7	321.9	260.3	235.1	221.2	212.8	212.8	210.0
57.5°	3667.2	2177.9	789.4	383.5	293.9	243.5	223.9	207.2	196.0	193.2	190.4
60°	3703.6	2163.9	744.6	349.9	265.9	229.5	210.0	190.4	179.2	176.4	173.6
62.5°	3653.2	2113.5	685.8	291.1	240.7	212.8	196.0	176.4	165.2	162.4	159.6
65°	3510.4	2018.3	596.3	229.5	218.4	193.2	179.2	165.2	151.2	145.6	142.8
67.5°	3266.9	1881.2	484.3	184.8	193.2	176.4	168.0	151.2	134.4	128.8	126.0
70°	2919.7	1699.2	363.9	156.8	170.8	156.8	151.2	134.4	120.4	114.8	112.0
72.5°	2432.7	1405.3	254.7	134.4	148.4	137.2	131.6	120.4	106.4	98.0	98.0
75°	1839.2	1007.8	168.0	114.8	123.2	117.6	109.2	100.8	92.4	86.8	84.0
77.5°	792.2	391.9	103.6	86.8	100.8	98.0	86.8	81.2	78.4	72.8	72.8
80°	341.5	159.6	64.4	64.4	72.8	70.0	67.2	61.6	61.6	58.8	56.0
82.5°	126.0	64.4	39.2	47.6	53.2	47.6	47.6	47.6	47.6	44.8	44.8
85°	30.8	19.6	19.6	28.0	30.8	28.0	30.8	28.0	28.0	28.0	25.2
87.5°	8.4	8.4	11.2	11.2	11.2	11.2	11.2	8.4	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)