

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: P841113

Luminaire Tested: **ARCH4-130-740-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841113
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: ARCH4-130-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1080mA 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: 15677 lumens
Efficiency: N/A
Efficacy: 118.8 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): 132
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

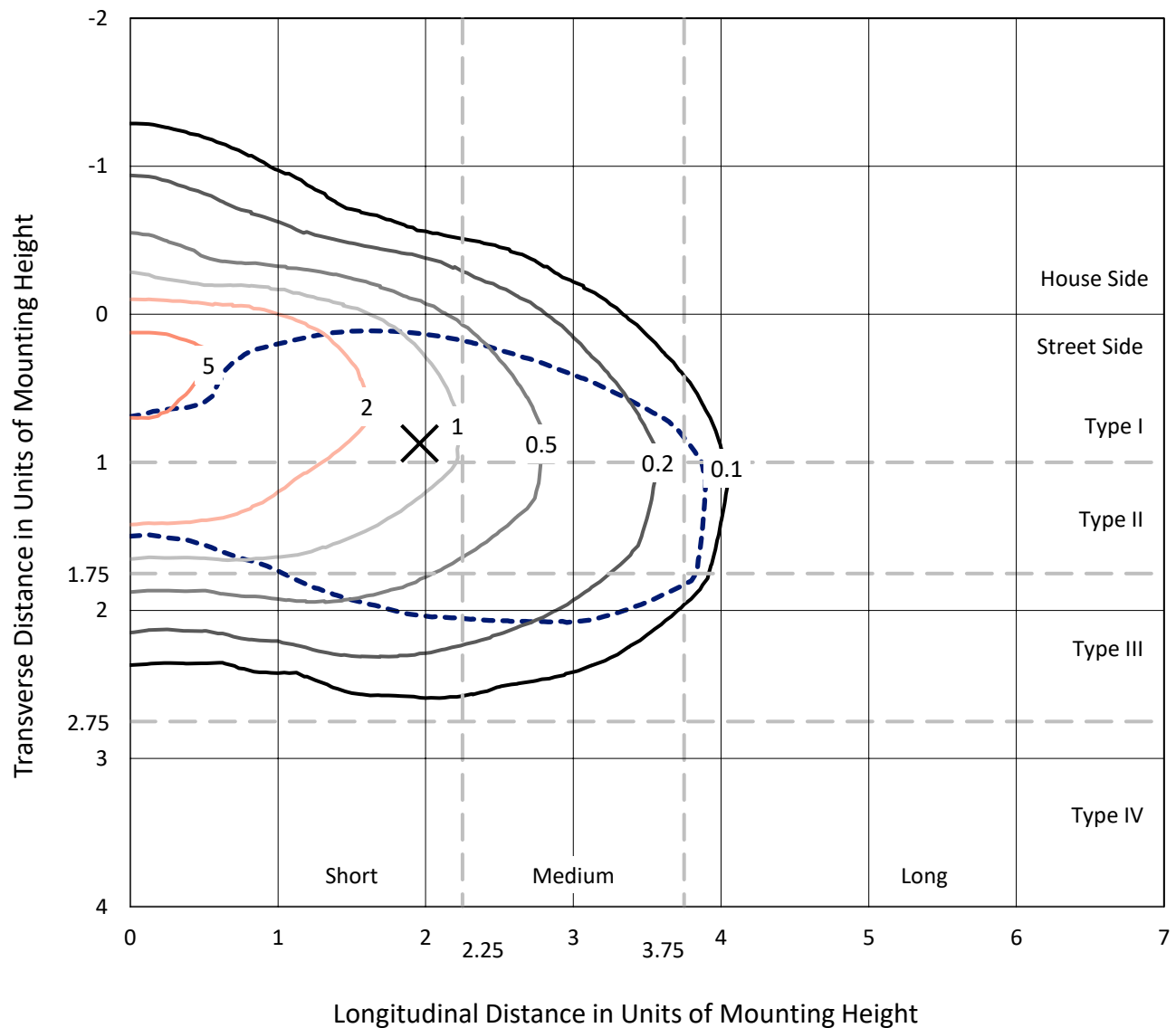


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Iso-Footcandle Lines of Horizontal Illumination

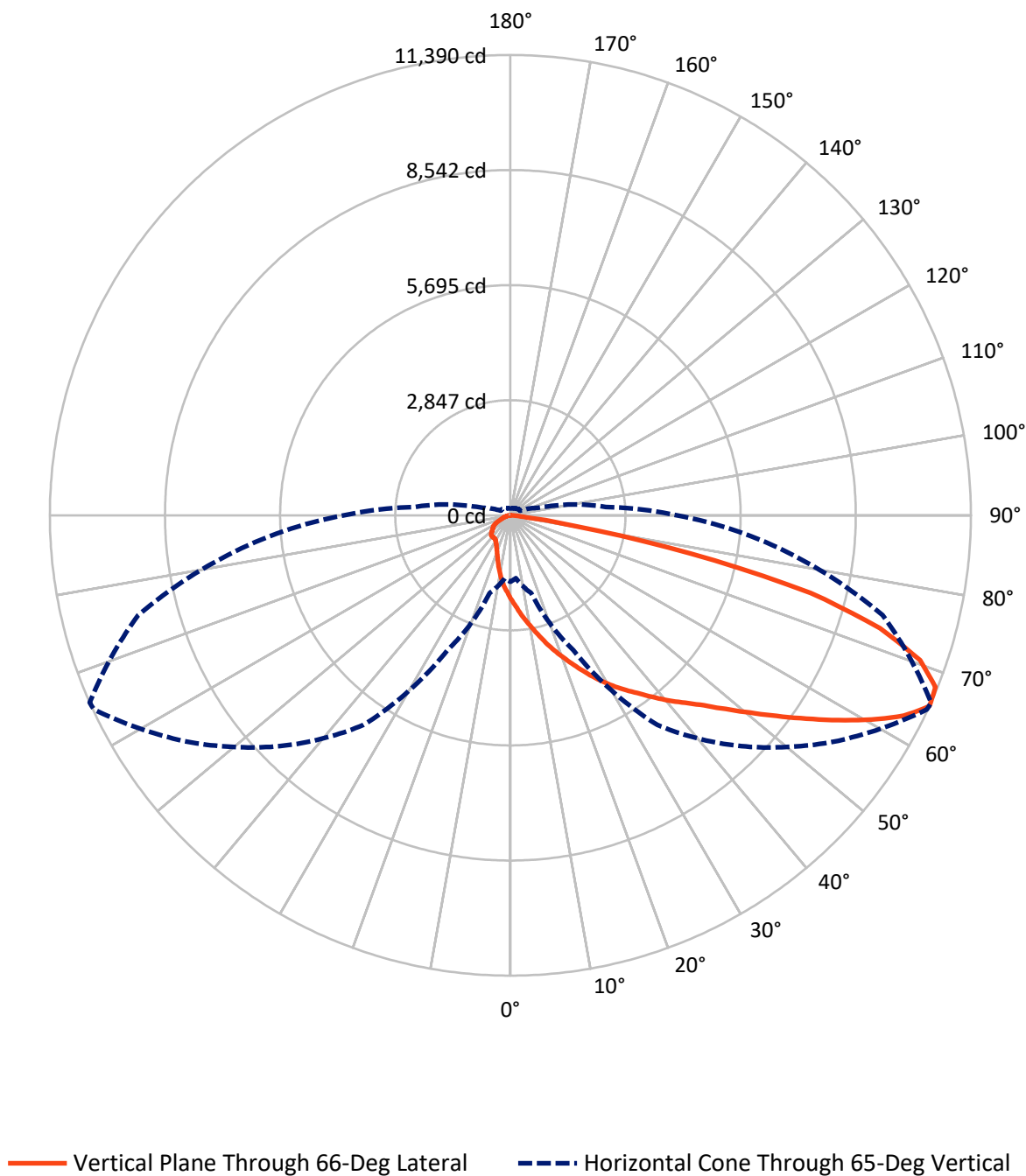
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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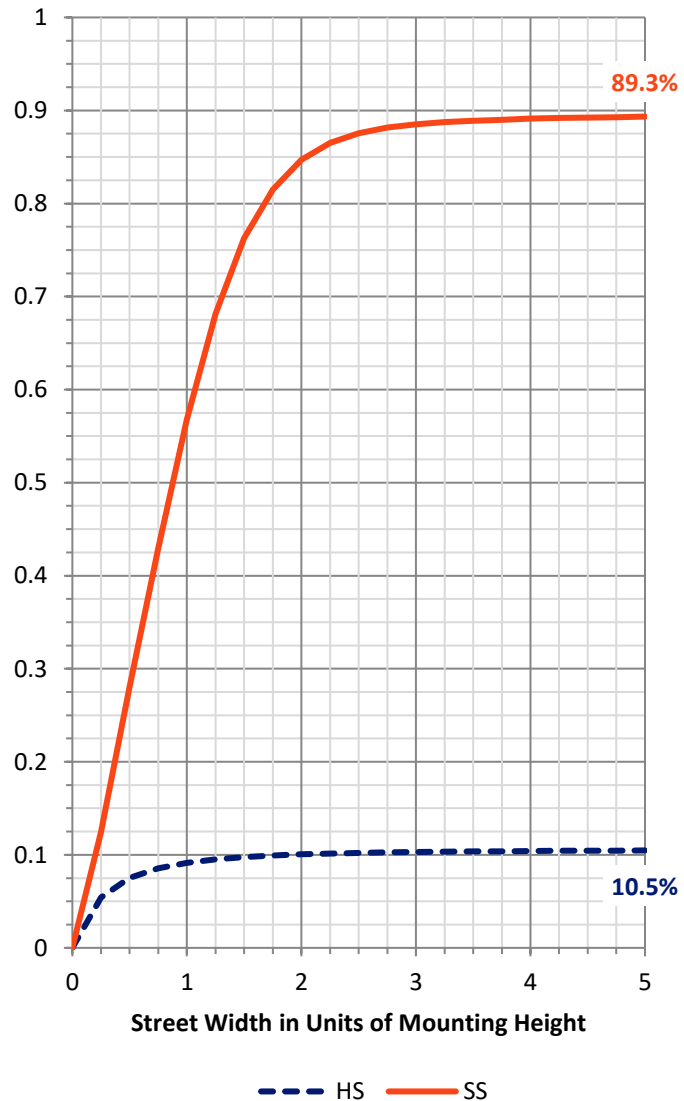
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1658.2	0.0	1658.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	14018.8	0.0	14018.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	15677.0	0.0	15677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	1.3
10°-20°	667.4	4.3
20°-30°	1207.6	7.7
30°-40°	1888.4	12.0
40°-50°	2864.6	18.3
50°-60°	3639.6	23.2
60°-70°	3400.8	21.7
70°-80°	1690.2	10.8
80°-90°	113.6	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°	15677.0	100.0
0°-180°	15677.0	100.0

Coefficient of Utilization



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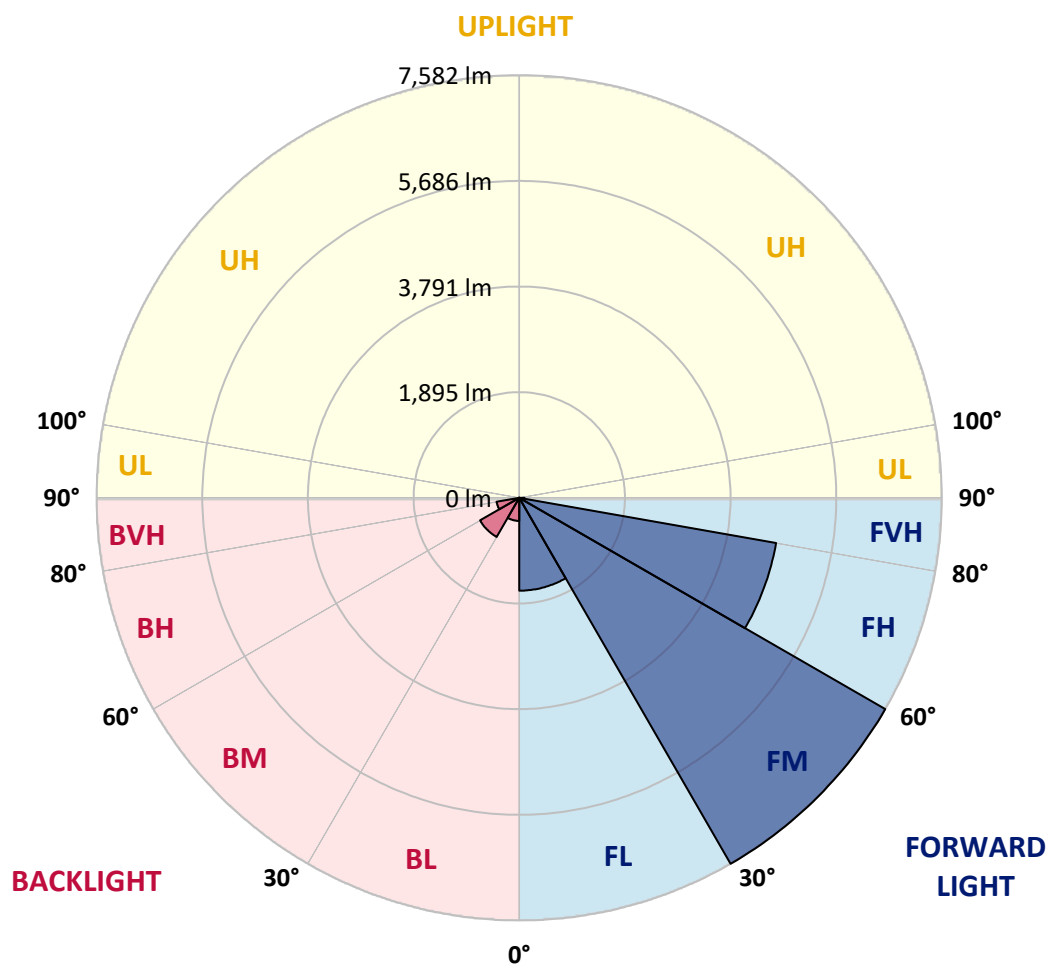
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1665.7	10.6			
FM	(30°-60°)	7581.6	48.4			
FH	(60°-80°)	4678.1	29.8			G2/5000
FVH	(80°-90°)	93.5	0.6			G1/100
BL	(0°-30°)	414.1	2.6	B1/500		
BM	(30°-60°)	811.0	5.2	B1/1000		
BH	(60°-80°)	412.9	2.6	B1/500		G1/500
BVH	(80°-90°)	20.1	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°	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8
2.5°	2423.3	2443.0	2452.9	2456.2	2380.6	2347.7	2314.8	2239.2	2222.7	2180.0	2124.1
5°	2850.7	2877.1	2870.5	2857.3	2765.3	2660.0	2574.5	2433.2	2410.1	2308.2	2183.3
7.5°	3271.6	3294.6	3288.1	3238.7	3136.8	2988.8	2847.5	2640.3	2607.4	2443.0	2242.5
10°	3623.4	3643.2	3639.9	3590.6	3468.9	3288.1	3117.1	2840.9	2801.4	2568.0	2291.8
12.5°	3912.8	3939.1	3935.8	3902.9	3794.4	3597.1	3403.1	3071.0	3021.7	2719.2	2360.8
15°	4139.7	4172.5	4172.5	4159.4	4083.8	3919.4	3699.1	3324.2	3265.0	2893.5	2446.3
17.5°	4277.8	4304.1	4327.1	4350.1	4297.5	4172.5	3972.0	3577.4	3514.9	3064.5	2535.1
20°	4350.1	4376.4	4392.8	4442.2	4452.0	4389.6	4231.7	3827.3	3761.5	3258.5	2637.0
22.5°	4468.5	4491.5	4494.8	4537.5	4557.2	4573.7	4475.0	4073.9	4021.3	3472.2	2752.1
25°	4665.8	4692.1	4682.2	4701.9	4705.2	4724.9	4715.1	4356.7	4304.1	3715.5	2890.2
27.5°	4918.9	4951.8	4945.2	4925.5	4895.9	4879.5	4922.2	4642.7	4593.4	3958.8	3031.6
30°	5191.8	5231.3	5221.4	5182.0	5103.1	5034.0	5093.2	4912.4	4866.3	4208.7	3189.4
32.5°	5468.0	5514.1	5510.8	5445.0	5310.2	5191.8	5280.6	5165.5	5132.7	4478.3	3360.4
35°	5648.9	5708.1	5701.5	5662.0	5487.8	5385.8	5494.3	5425.3	5402.3	4807.1	3607.0
37.5°	5941.5	6004.0	5948.1	5849.5	5648.9	5596.3	5727.8	5717.9	5701.5	5155.7	3866.8
40°	6651.7	6743.8	6595.8	6191.4	5862.6	5816.6	6004.0	6043.5	6027.0	5500.9	4100.2
42.5°	7394.8	7532.9	7302.8	6743.8	6250.6	6082.9	6306.5	6362.4	6342.7	5796.8	4310.6
45°	7845.3	7904.5	7674.3	7240.3	6937.8	6405.1	6628.7	6720.8	6704.4	6152.0	4580.3
47.5°	8213.6	8190.6	7927.5	7634.9	7690.8	6858.9	6993.7	7174.5	7161.4	6543.2	4876.2
50°	8292.5	8239.9	8134.7	7950.5	8098.5	7319.2	7378.4	7690.8	7677.6	6977.3	5175.4
52.5°	7736.8	7667.8	7953.8	8108.4	8059.0	7654.6	7802.6	8256.3	8249.7	7447.5	5461.5
55°	6349.2	6293.3	7062.7	7861.7	8016.3	7891.3	8272.8	8844.9	8881.0	7947.2	5721.2
57.5°	4994.6	4935.4	5691.6	7243.6	7858.5	8108.4	8821.9	9518.9	9565.0	8489.8	5967.8
60°	3981.8	3893.1	4471.8	6270.3	7562.5	8276.0	9351.2	10258.7	10265.3	8986.3	6119.1
62.5°	2706.1	2607.4	3248.6	5037.3	7066.0	8302.3	9759.0	10896.6	10922.9	9357.8	6145.4
65°	1644.0	1561.8	1995.9	3679.3	6332.8	8078.8	9765.5	11366.8	11389.8	9528.8	5987.6
67.5°	953.5	920.7	1141.0	2291.8	5116.2	7477.0	9354.5	11294.5	11337.2	9456.5	5629.2
70°	555.7	552.4	634.6	1134.4	3610.3	6283.5	8437.2	10686.2	10748.7	9078.3	5080.1
72.5°	407.7	414.3	447.2	608.3	2091.2	4524.4	7145.0	9463.0	9558.4	8338.5	4297.5
75°	322.2	325.5	355.1	414.3	1098.2	2558.1	5353.0	7595.4	7671.0	7020.0	3357.1
77.5°	240.0	246.6	269.6	292.6	509.6	1173.8	3011.9	4678.9	4554.0	3853.6	1621.0
80°	174.3	190.7	200.6	210.4	269.6	453.8	904.2	1630.9	1617.7	1683.5	766.1
82.5°	111.8	124.9	134.8	141.4	161.1	217.0	269.6	365.0	394.6	654.3	305.8
85°	49.3	55.9	62.5	75.6	69.0	75.6	111.8	72.3	62.5	98.6	55.9
87.5°	0.0	0.0	9.9	16.4	13.2	6.6	19.7	13.2	9.9	9.9	9.9
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°	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8
2.5°	2094.5	2058.3	1982.7	1910.4	1867.6	1811.7	1762.4	1716.4	1713.1	1699.9	1676.9
5°	2120.8	2051.7	1910.4	1775.6	1673.6	1565.1	1473.1	1400.7	1374.4	1354.7	1328.4
7.5°	2147.1	2038.6	1828.2	1630.9	1469.8	1318.5	1210.0	1111.4	1081.8	1055.5	1039.0
10°	2157.0	2015.6	1732.8	1469.8	1259.3	1098.2	983.1	910.8	884.5	871.3	861.5
12.5°	2186.6	2002.4	1644.0	1318.5	1075.2	927.2	845.0	802.3	792.4	782.6	772.7
15°	2226.0	2002.4	1555.3	1170.5	930.5	812.2	762.8	733.2	726.7	723.4	716.8
17.5°	2268.8	2002.4	1469.8	1045.6	825.3	736.5	700.4	683.9	680.6	677.3	674.1
20°	2327.9	2005.7	1377.7	937.1	749.7	680.6	651.0	631.3	628.0	624.7	624.7
22.5°	2387.1	2012.3	1288.9	854.9	700.4	637.9	601.7	582.0	575.4	575.4	575.4
25°	2462.8	2032.0	1206.7	785.8	657.6	598.4	552.4	536.0	532.7	532.7	529.4
27.5°	2551.5	2055.0	1134.4	733.2	614.9	552.4	506.4	489.9	483.3	483.3	480.1
30°	2646.9	2078.1	1075.2	693.8	572.1	506.4	463.6	443.9	437.3	440.6	437.3
32.5°	2752.1	2110.9	1029.2	667.5	532.7	466.9	427.4	404.4	401.1	401.1	397.9
35°	2929.7	2203.0	1022.6	654.3	499.8	437.3	397.9	374.8	371.6	371.6	368.3
37.5°	3120.4	2308.2	1052.2	647.7	473.5	411.0	374.8	351.8	348.5	348.5	348.5
40°	3281.5	2387.1	1085.1	647.7	457.0	388.0	355.1	335.4	335.4	335.4	335.4
42.5°	3390.0	2393.7	1078.5	647.7	443.9	371.6	342.0	322.2	322.2	325.5	322.2
45°	3551.1	2426.6	1052.2	637.9	434.0	358.4	328.8	312.4	309.1	312.4	312.4
47.5°	3741.8	2485.8	1025.9	598.4	430.7	345.2	318.9	299.2	295.9	299.2	295.9
50°	3922.7	2538.4	1012.7	545.8	424.2	332.1	305.8	286.1	282.8	286.1	282.8
52.5°	4073.9	2561.4	989.7	509.6	407.7	318.9	292.6	272.9	266.3	269.6	269.6
55°	4195.6	2554.8	956.8	480.1	378.1	305.8	276.2	259.8	249.9	249.9	246.6
57.5°	4307.4	2558.1	927.2	450.5	345.2	286.1	263.0	243.3	230.2	226.9	223.6
60°	4350.1	2541.7	874.6	411.0	312.4	269.6	246.6	223.6	210.4	207.1	203.9
62.5°	4290.9	2482.5	805.6	342.0	282.8	249.9	230.2	207.1	194.0	190.7	187.4
65°	4123.2	2370.7	700.4	269.6	256.5	226.9	210.4	194.0	177.6	171.0	167.7
67.5°	3837.2	2209.6	568.8	217.0	226.9	207.1	197.3	177.6	157.8	151.3	148.0
70°	3429.4	1995.9	427.4	184.1	200.6	184.1	177.6	157.8	141.4	134.8	131.5
72.5°	2857.3	1650.6	299.2	157.8	174.3	161.1	154.5	141.4	124.9	115.1	115.1
75°	2160.3	1183.7	197.3	134.8	144.7	138.1	128.2	118.4	108.5	101.9	98.6
77.5°	930.5	460.3	121.7	101.9	118.4	115.1	101.9	95.4	92.1	85.5	85.5
80°	401.1	187.4	75.6	75.6	85.5	82.2	78.9	72.3	72.3	69.0	65.8
82.5°	148.0	75.6	46.0	55.9	62.5	55.9	55.9	55.9	55.9	52.6	52.6
85°	36.2	23.0	23.0	32.9	36.2	32.9	36.2	32.9	32.9	32.9	29.6
87.5°	9.9	9.9	13.2	13.2	13.2	13.2	13.2	9.9	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)