

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: P836136

Luminaire Tested: **ARCH3-140-750-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21606 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

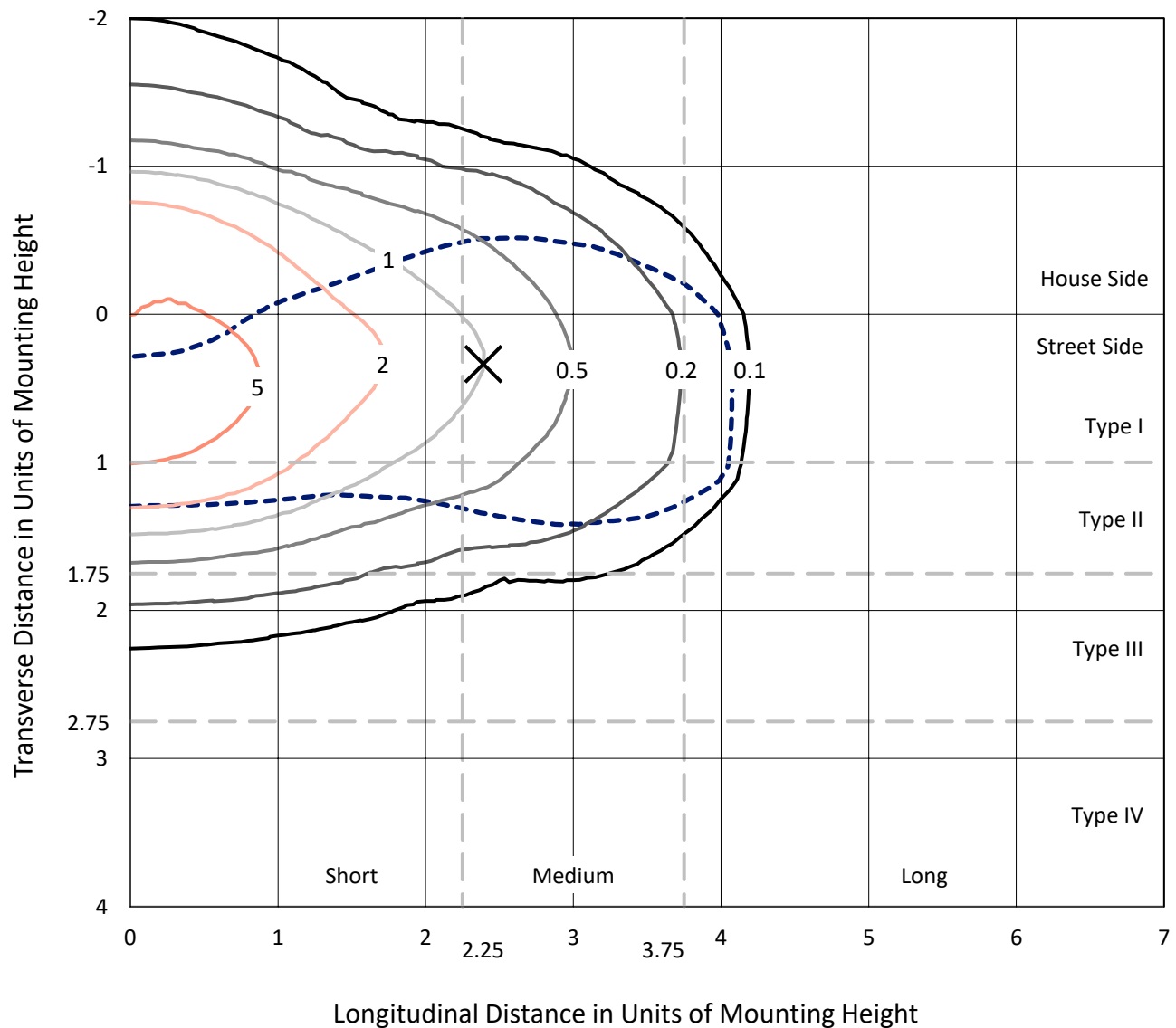
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

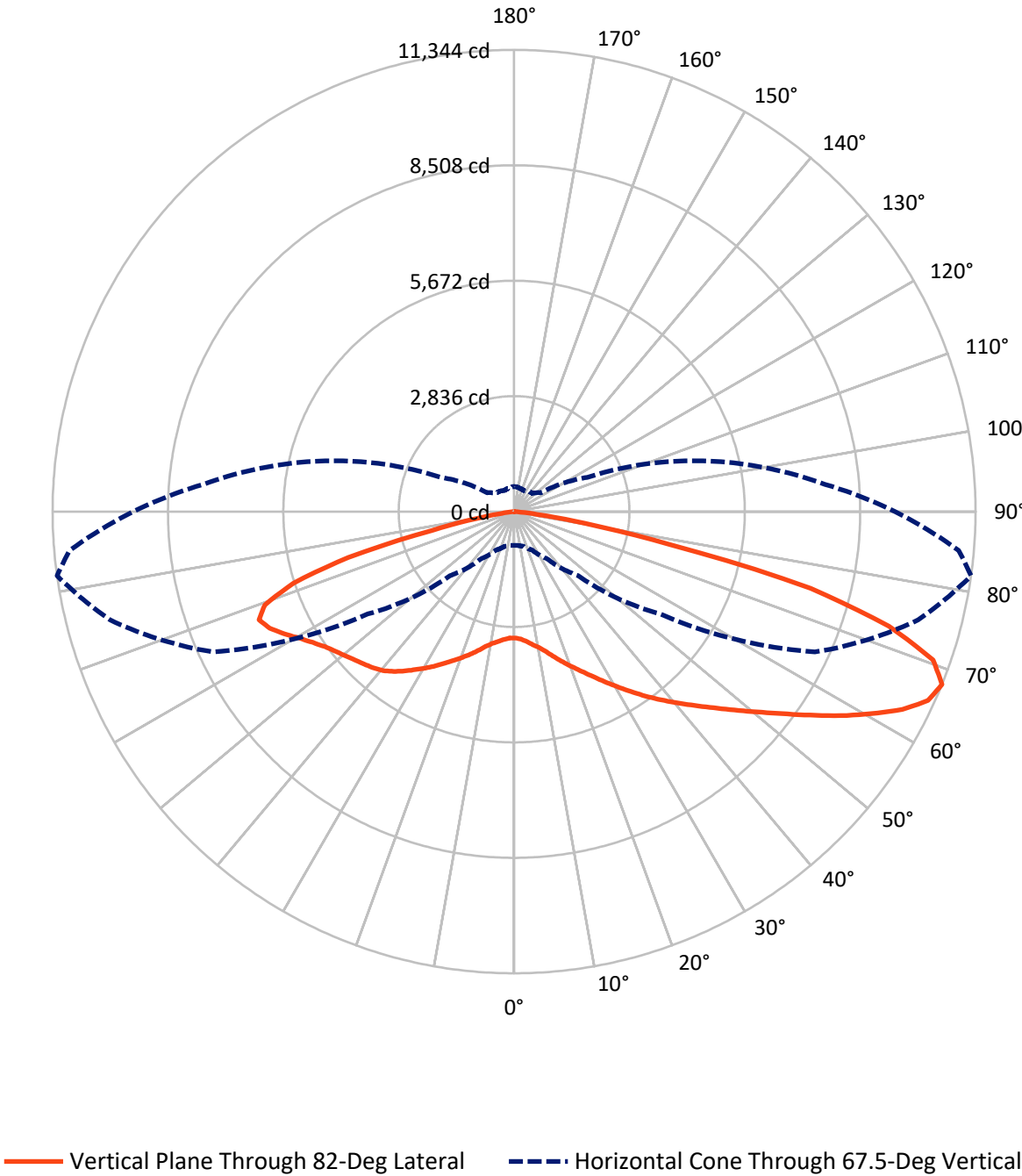
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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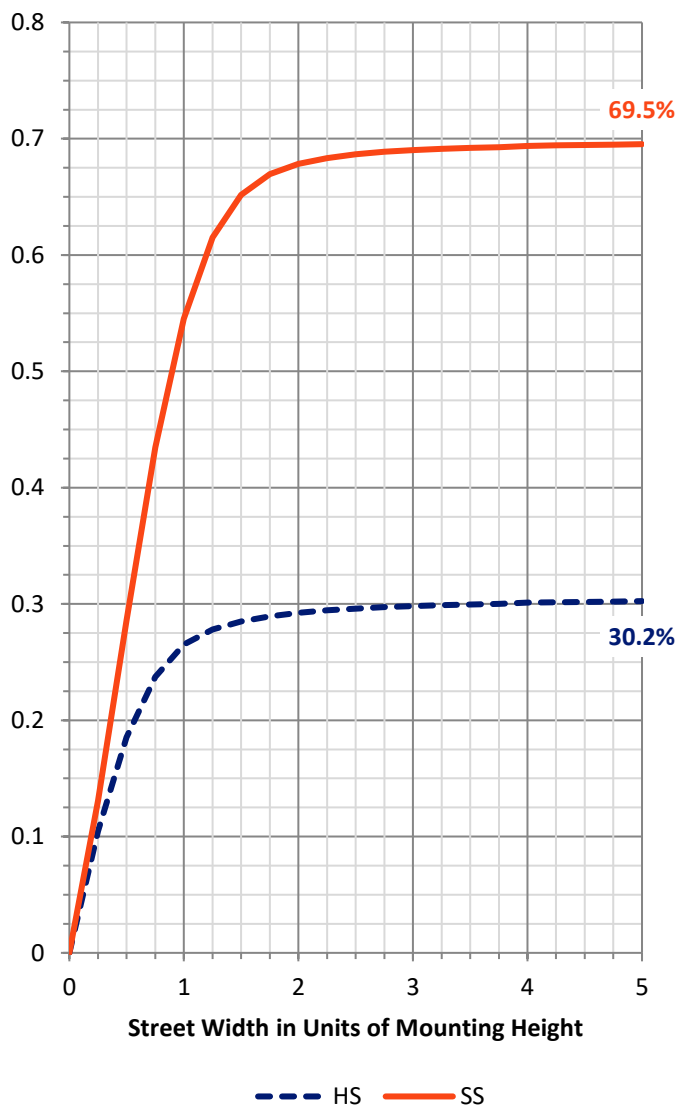
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6579.9	0.0	6579.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15026.1	0.0	15026.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	21606.0	0.0	21606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	1.5
10°-20°	1156.2	5.4
20°-30°	2323.6	10.8
30°-40°	3650.1	16.9
40°-50°	4446.5	20.6
50°-60°	4201.4	19.4
60°-70°	3469.4	16.1
70°-80°	1889.2	8.7
80°-90°	148.5	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°	21606.0	100.0
0°-180°	21606.0	100.0

Coefficient of Utilization



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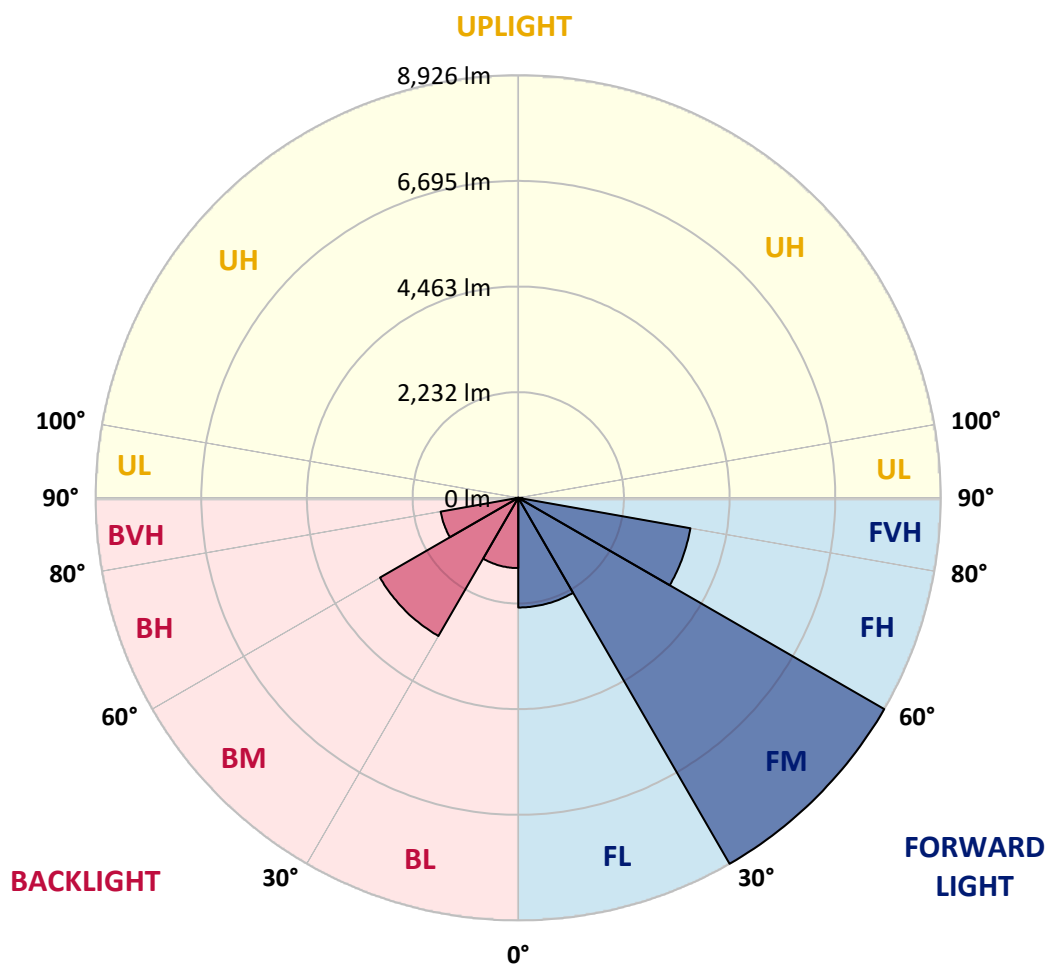
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2317.0	10.7			
FM	(30°-60°)	8926.4	41.3			
FH	(60°-80°)	3693.2	17.1			G2/5000
FVH	(80°-90°)	89.5	0.4			G1/100
BL	(0°-30°)	1483.8	6.9	B3/2500		
BM	(30°-60°)	3371.7	15.6	B3/5000		
BH	(60°-80°)	1665.4	7.7	B3/2500		G3/2500
BVH	(80°-90°)	59.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9
2.5°	3247.0	3247.0	3272.1	3272.1	3250.2	3215.7	3206.2	3168.6	3134.1	3134.1	3137.2
5°	3557.6	3554.5	3573.3	3548.2	3494.9	3425.8	3378.8	3297.2	3228.2	3206.2	3203.1
7.5°	3937.2	3934.1	3943.5	3902.7	3802.3	3689.4	3595.3	3463.5	3350.6	3303.5	3290.9
10°	4360.7	4357.6	4348.2	4279.2	4144.3	3968.6	3827.4	3645.5	3476.0	3400.8	3385.1
12.5°	4847.0	4840.7	4818.8	4718.4	4533.3	4307.4	4103.5	3868.2	3642.3	3538.8	3504.3
15°	5389.8	5380.3	5339.6	5217.2	4969.4	4683.9	4420.3	4119.2	3843.1	3708.2	3661.1
17.5°	5960.7	5960.7	5898.0	5716.0	5439.9	5085.4	4759.2	4376.4	4053.3	3887.0	3830.5
20°	6541.1	6538.0	6459.5	6239.9	5913.7	5505.8	5091.7	4671.3	4269.8	4069.0	4000.0
22.5°	7152.9	7146.6	7049.3	6798.4	6409.3	5948.2	5465.0	4963.1	4508.2	4266.6	4178.8
25°	7855.6	7846.2	7727.0	7419.5	6958.4	6437.6	5885.4	5305.0	4781.1	4486.2	4382.7
27.5°	8602.3	8589.7	8448.5	8090.9	7585.8	6958.4	6349.7	5700.3	5082.3	4730.9	4614.9
30°	9267.4	9257.9	9104.2	8737.2	8156.8	7476.0	6792.1	6095.6	5399.2	4991.3	4847.0
32.5°	9769.3	9769.3	9631.3	9270.5	8668.1	7971.7	7237.6	6469.0	5728.6	5270.5	5101.1
35°	10073.6	10083.0	9963.8	9675.2	9107.4	8439.1	7698.7	6908.2	6079.9	5568.6	5386.6
37.5°	10117.5	10148.9	10079.9	9885.4	9411.7	8828.1	8150.5	7331.7	6443.9	5869.7	5665.8
40°	9913.6	9935.6	9938.7	9863.4	9537.2	9107.4	8548.9	7780.3	6829.7	6186.6	5951.3
42.5°	9505.8	9521.5	9549.7	9571.7	9446.2	9229.7	8853.2	8197.6	7240.7	6509.7	6233.7
45°	8978.7	8975.6	9022.7	9116.8	9110.5	9160.7	9022.7	8577.2	7667.4	6876.8	6547.4
47.5°	8191.3	8175.6	8341.9	8555.2	8661.9	8897.2	9025.8	8875.2	8131.7	7281.5	6905.0
50°	6958.4	6942.7	7306.6	7808.5	8122.3	8479.9	8853.2	9054.0	8618.0	7736.4	7294.0
52.5°	5458.8	5443.1	5904.3	6782.7	7466.6	7987.4	8505.0	9094.8	9079.1	8244.6	7733.3
55°	4059.6	4047.0	4495.6	5446.2	6553.7	7416.4	8078.4	8988.1	9512.1	8828.1	8266.6
57.5°	2861.1	2854.9	3243.9	4031.3	5380.3	6719.9	7667.4	8781.1	9910.5	9461.9	8868.9
60°	2007.8	1998.4	2280.8	2889.4	4069.0	5669.0	7259.5	8505.0	10208.5	10086.2	9508.9
62.5°	1352.1	1345.9	1546.7	2054.9	2889.4	4363.9	6641.5	8319.9	10377.9	10713.6	10155.2
65°	1025.9	1022.7	1113.7	1392.9	2045.5	3134.1	5659.6	8298.0	10399.9	11184.2	10704.2
67.5°	828.2	831.4	881.6	1041.6	1414.9	2227.4	4389.0	8159.9	10283.8	11344.2	10970.9
70°	677.6	677.6	699.6	806.3	1044.7	1502.7	3065.1	7532.5	9960.7	10926.9	10654.0
72.5°	517.6	520.8	589.8	652.5	787.4	1054.1	1963.9	6233.7	9198.3	9634.4	9427.4
75°	411.0	407.8	448.6	536.5	611.8	752.9	1204.7	4470.5	7827.4	7529.3	7397.6
77.5°	294.9	291.8	323.1	398.4	464.3	533.3	718.4	2255.7	4257.2	3912.1	3814.9
80°	200.8	194.5	222.7	276.1	307.4	313.7	351.4	865.9	1857.2	1750.6	1728.6
82.5°	103.5	103.5	119.2	156.9	160.0	163.1	156.9	279.2	614.9	574.1	549.0
85°	40.8	40.8	43.9	53.3	53.3	56.5	56.5	72.2	65.9	62.7	59.6
87.5°	3.1	3.1	6.3	6.3	9.4	9.4	9.4	12.5	15.7	15.7	15.7
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°	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9
2.5°	3130.9	3118.4	3077.6	3068.2	3061.9	3052.5	3055.7	3033.7	3024.3	3027.4	3014.9
5°	3187.4	3165.5	3115.3	3093.3	3087.0	3077.6	3087.0	3071.3	3055.7	3061.9	3055.7
7.5°	3265.8	3234.5	3171.7	3149.8	3146.6	3137.2	3149.8	3137.2	3124.7	3130.9	3118.4
10°	3347.4	3306.6	3237.6	3215.7	3215.7	3212.5	3225.1	3206.2	3193.7	3196.8	3190.6
12.5°	3466.6	3413.3	3338.0	3319.2	3309.8	3319.2	3322.3	3297.2	3275.3	3278.4	3269.0
15°	3610.9	3551.3	3469.8	3441.5	3435.3	3432.1	3419.6	3388.2	3360.0	3356.8	3347.4
17.5°	3767.8	3692.5	3595.3	3567.0	3538.8	3529.4	3498.0	3457.2	3413.3	3413.3	3400.8
20°	3918.4	3833.7	3717.6	3676.8	3636.0	3598.4	3545.1	3479.2	3422.7	3413.3	3400.8
22.5°	4081.5	3981.1	3846.2	3786.6	3714.5	3639.2	3548.2	3460.4	3388.2	3372.5	3363.1
25°	4263.5	4138.0	3978.0	3890.2	3774.1	3658.0	3523.1	3410.2	3325.5	3300.4	3294.1
27.5°	4464.3	4313.7	4119.2	3990.5	3821.1	3639.2	3466.6	3331.7	3228.2	3196.8	3187.4
30°	4668.2	4489.4	4247.8	4059.6	3821.1	3579.6	3363.1	3206.2	3087.0	3043.1	3036.8
32.5°	4872.1	4671.3	4363.9	4097.2	3783.5	3479.2	3228.2	3043.1	2908.2	2854.9	2867.4
35°	5116.8	4872.1	4470.5	4112.9	3720.7	3356.8	3074.5	2858.0	2720.0	2672.9	2682.3
37.5°	5370.9	5072.9	4555.2	4100.4	3632.9	3218.8	2901.9	2691.7	2519.2	2437.6	2447.0
40°	5590.5	5254.8	4614.9	4056.4	3520.0	3061.9	2732.5	2456.4	2218.0	2139.6	2130.2
42.5°	5797.6	5389.8	4646.2	3990.5	3391.3	2880.0	2491.0	2136.4	1898.0	1800.8	1803.9
45°	6014.1	5521.5	4633.7	3902.7	3231.3	2666.6	2180.4	1822.7	1612.5	1524.7	1527.8
47.5°	6261.9	5662.7	4621.1	3808.6	3036.8	2390.6	1882.3	1546.7	1364.7	1301.9	1295.7
50°	6525.4	5819.5	4605.4	3692.5	2820.4	2083.1	1587.4	1289.4	1135.7	1094.9	1085.5
52.5°	6823.5	5989.0	4596.0	3554.5	2560.0	1756.8	1323.9	1063.5	960.0	931.8	928.6
55°	7181.1	6186.6	4608.6	3388.2	2246.3	1449.4	1101.2	916.1	847.1	831.4	828.2
57.5°	7617.2	6440.7	4646.2	3193.7	1916.8	1182.7	938.0	825.1	781.2	768.6	768.6
60°	8090.9	6729.3	4715.2	2974.1	1587.4	975.7	831.4	752.9	734.1	749.8	749.8
62.5°	8602.3	7068.2	4837.6	2707.4	1280.0	825.1	746.7	693.3	680.8	712.1	715.3
65°	9076.0	7397.6	4916.0	2387.4	1016.5	715.3	680.8	633.7	640.0	671.4	668.2
67.5°	9367.7	7670.5	4806.2	1985.9	806.3	633.7	611.8	571.0	586.7	611.8	614.9
70°	9188.9	7516.8	4263.5	1499.6	630.6	552.2	536.5	511.4	523.9	555.3	567.8
72.5°	8313.6	6732.5	3316.0	1013.3	508.2	464.3	470.6	458.0	473.7	502.0	530.2
75°	6748.2	5088.6	2224.3	649.4	401.6	395.3	404.7	395.3	401.6	429.8	445.5
77.5°	3523.1	2481.5	1107.4	404.7	298.0	307.4	323.1	326.3	345.1	351.4	357.6
80°	1643.9	1116.9	461.2	225.9	197.6	216.5	247.8	251.0	257.3	266.7	269.8
82.5°	536.5	335.7	213.3	122.4	112.9	122.4	160.0	191.4	194.5	213.3	213.3
85°	56.5	34.5	47.1	50.2	43.9	53.3	72.2	69.0	31.4	18.8	18.8
87.5°	15.7	12.5	15.7	15.7	12.5	12.5	9.4	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)