

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: P842082

Luminaire Tested: **ARCH4-270-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33742 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 269
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



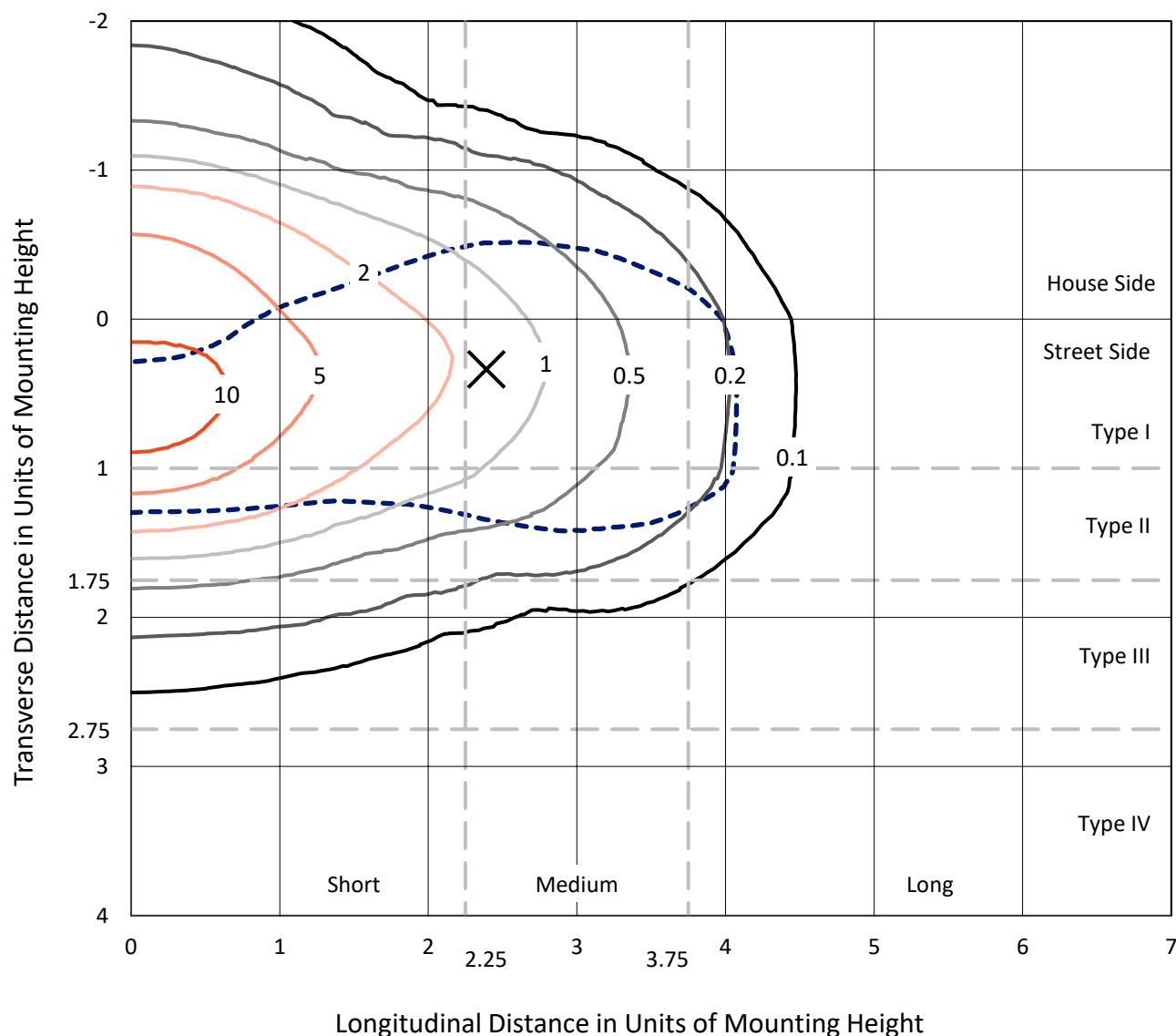
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

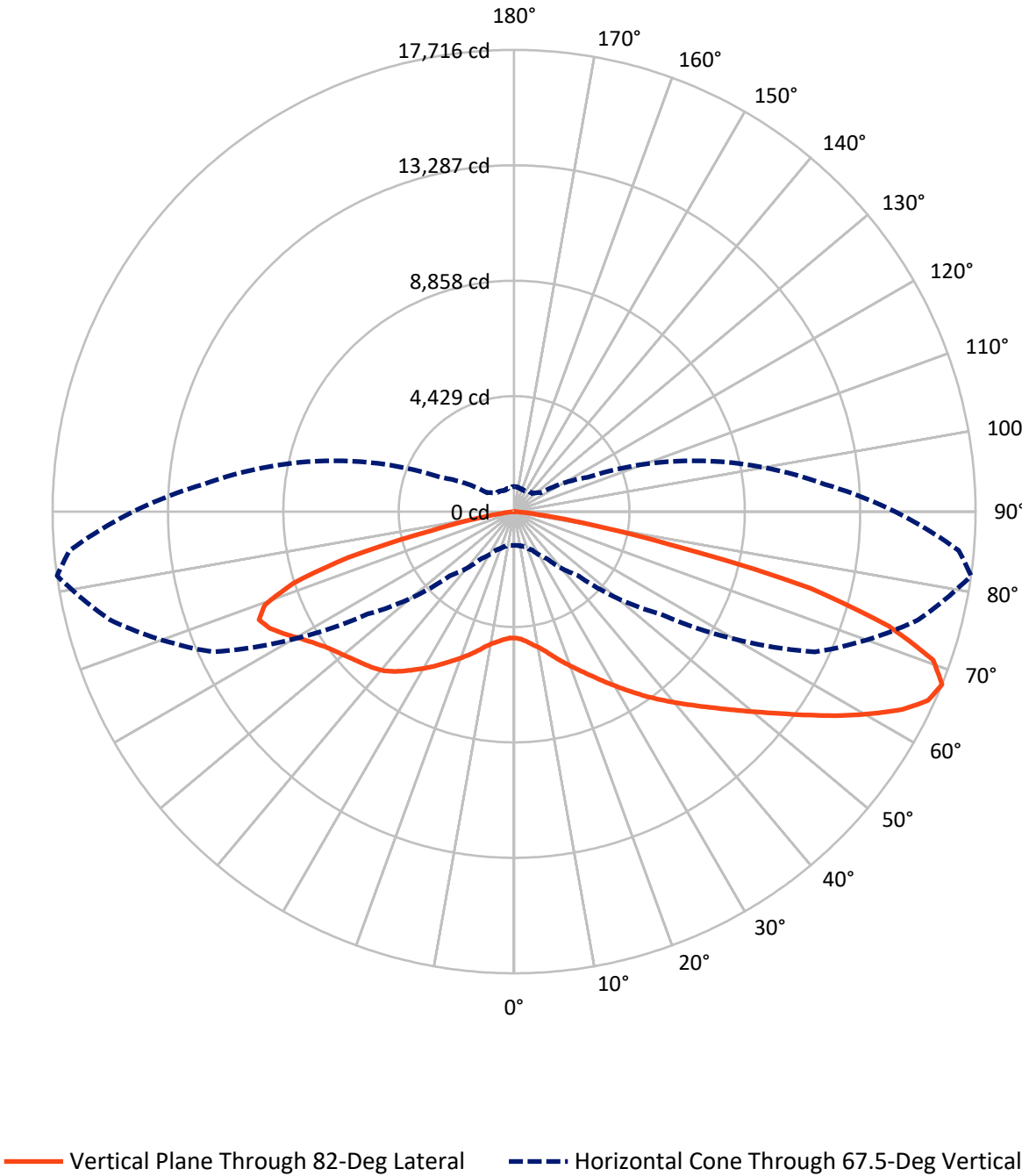
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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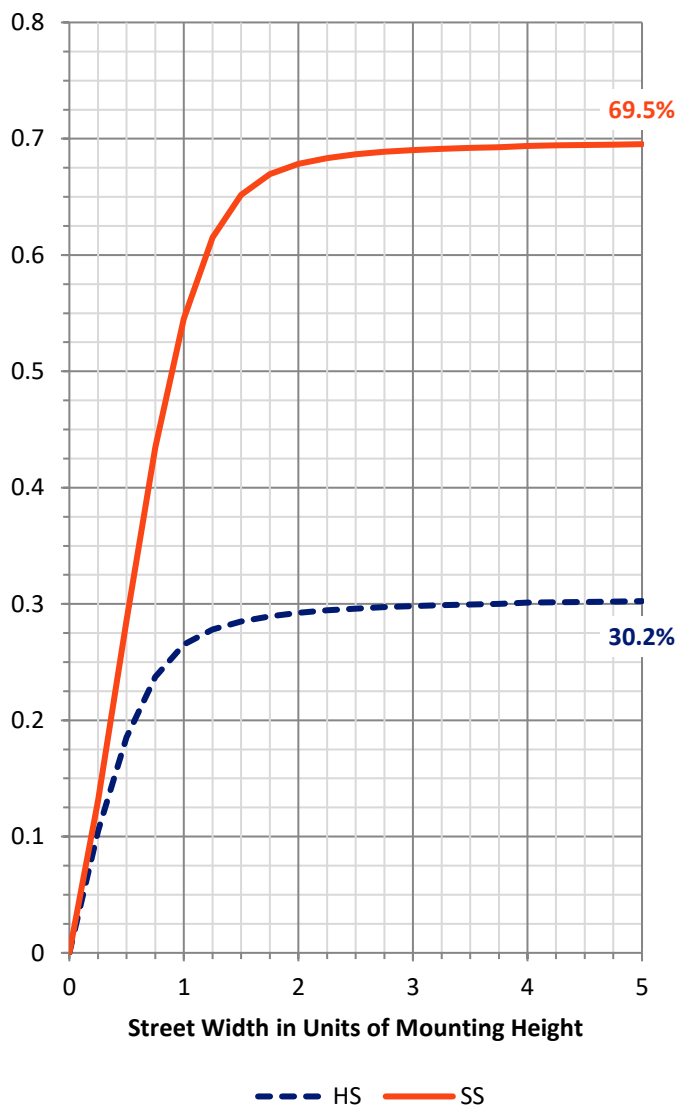
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10275.8	0.0	10275.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	23466.2	0.0	23466.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	33742.0	0.0	33742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.3	1.5
10°-20°	1805.6	5.4
20°-30°	3628.8	10.8
30°-40°	5700.3	16.9
40°-50°	6944.1	20.6
50°-60°	6561.3	19.4
60°-70°	5418.2	16.1
70°-80°	2950.4	8.7
80°-90°	232.0	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°	33742.0	100.0
0°-180°	33742.0	100.0

Coefficient of Utilization



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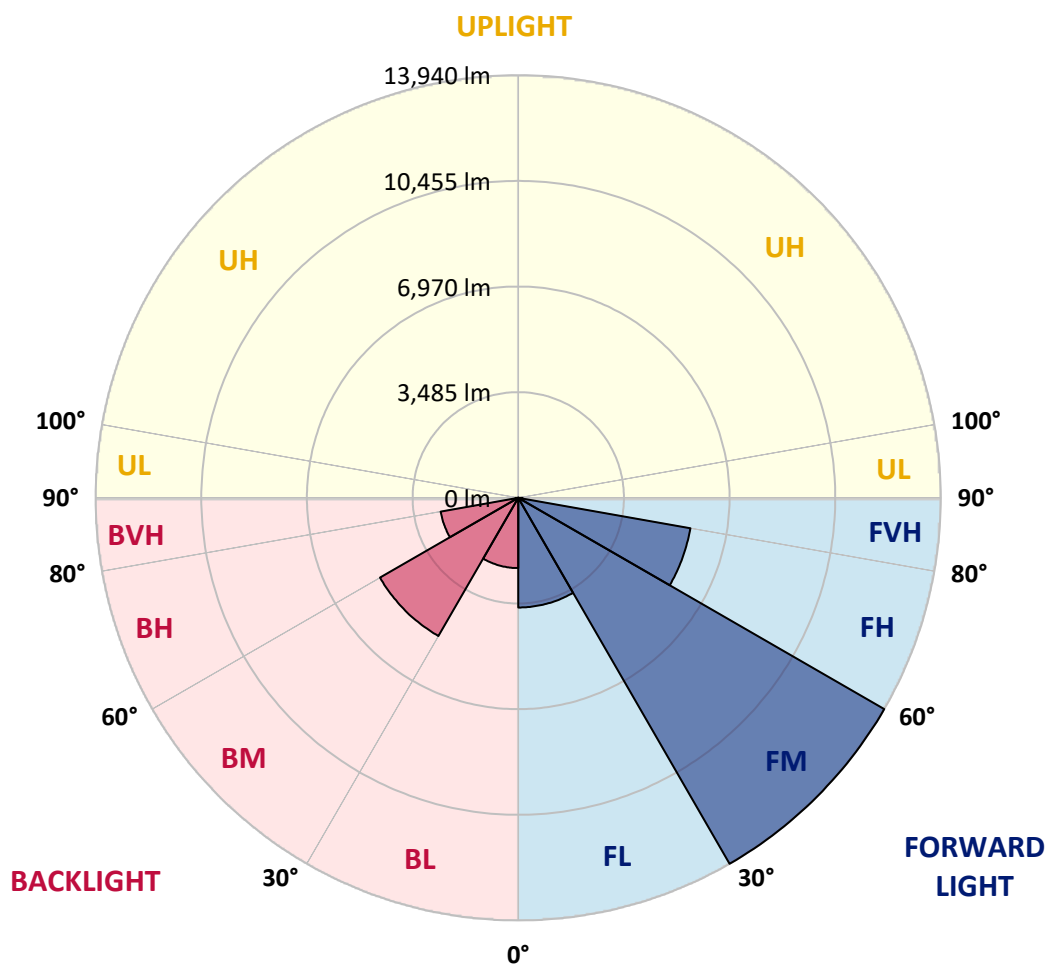
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3618.4	10.7			
FM	(30°-60°)	13940.3	41.3			
FH	(60°-80°)	5767.7	17.1			G3/7500
FVH	(80°-90°)	139.8	0.4			G2/225
BL	(0°-30°)	2317.3	6.9	B3/2500		
BM	(30°-60°)	5265.5	15.6	B4/8500		
BH	(60°-80°)	2600.9	7.7	B4/5000		G4/5000
BVH	(80°-90°)	92.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4
2.5°	5070.9	5070.9	5110.1	5110.1	5075.8	5021.9	5007.2	4948.4	4894.5	4894.5	4899.4
5°	5555.9	5551.0	5580.4	5541.2	5457.9	5350.1	5276.6	5149.3	5041.5	5007.2	5002.3
7.5°	6148.7	6143.8	6158.5	6094.8	5938.1	5761.7	5614.7	5408.9	5232.5	5159.1	5139.5
10°	6810.2	6805.3	6790.6	6682.8	6472.1	6197.7	5977.3	5693.1	5428.5	5310.9	5286.4
12.5°	7569.6	7559.8	7525.5	7368.7	7079.6	6726.9	6408.4	6040.9	5688.2	5526.5	5472.6
15°	8417.2	8402.5	8338.8	8147.7	7760.6	7314.8	6903.2	6432.9	6001.8	5791.1	5717.6
17.5°	9308.8	9308.8	9210.9	8926.7	8495.5	7941.9	7432.4	6834.6	6330.0	6070.3	5982.2
20°	10215.2	10210.3	10087.8	9744.9	9235.3	8598.4	7951.7	7295.2	6668.1	6354.5	6246.7
22.5°	11170.6	11160.8	11008.9	10617.0	10009.5	9289.2	8534.7	7750.8	7040.4	6663.2	6526.0
25°	12268.1	12253.4	12067.2	11587.1	10866.8	10053.5	9191.3	8284.9	7466.7	7006.1	6844.4
27.5°	13434.1	13414.5	13194.1	12635.5	11846.7	10866.8	9916.4	8902.2	7937.0	7388.3	7207.0
30°	14472.8	14458.1	14218.0	13644.8	12738.4	11675.2	10607.2	9519.5	8431.8	7794.9	7569.6
32.5°	15256.7	15256.7	15041.1	14477.7	13537.0	12449.3	11302.9	10102.5	8946.3	8231.0	7966.4
35°	15731.9	15746.6	15560.5	15109.7	14222.9	13179.4	12023.1	10788.5	9495.0	8696.4	8412.3
37.5°	15800.5	15849.5	15741.7	15438.0	14698.2	13786.9	12728.6	11449.9	10063.3	9166.8	8848.3
40°	15482.1	15516.4	15521.3	15403.7	14894.1	14222.9	13350.8	12150.5	10666.0	9661.6	9294.1
42.5°	14845.1	14869.6	14913.7	14948.0	14752.1	14414.0	13826.1	12802.1	11307.8	10166.2	9735.1
45°	14022.1	14017.2	14090.6	14237.6	14227.8	14306.2	14090.6	13394.9	11974.1	10739.5	10225.0
47.5°	12792.3	12767.8	13027.5	13360.6	13527.2	13894.7	14095.5	13860.4	12699.2	11371.5	10783.6
50°	10866.8	10842.3	11410.7	12194.6	12684.5	13243.0	13826.1	14139.6	13458.6	12081.9	11391.1
52.5°	8524.9	8500.4	9220.6	10592.5	11660.5	12473.8	13282.2	14203.3	14178.8	12875.6	12077.0
55°	6339.8	6320.2	7020.8	8505.3	10234.8	11582.2	12615.9	14036.7	14854.9	13786.9	12909.9
57.5°	4468.2	4458.4	5066.0	6295.7	8402.5	10494.5	11974.1	13713.4	15477.2	14776.6	13850.6
60°	3135.6	3120.9	3561.9	4512.3	6354.5	8853.2	11337.2	13282.2	15942.6	15751.5	14850.0
62.5°	2111.6	2101.8	2415.4	3209.1	4512.3	6815.1	10372.0	12993.2	16207.2	16731.4	15859.3
65°	1602.1	1597.2	1739.3	2175.3	3194.4	4894.5	8838.5	12958.9	16241.5	17466.3	16716.7
67.5°	1293.4	1298.3	1376.7	1626.6	2209.6	3478.6	6854.2	12743.3	16060.2	17716.2	17133.2
70°	1058.3	1058.3	1092.6	1259.1	1631.5	2346.8	4786.7	11763.4	15555.6	17064.6	16638.3
72.5°	808.4	813.3	921.1	1019.1	1229.7	1646.2	3067.0	9735.1	14365.0	15046.0	14722.7
75°	641.8	636.9	700.6	837.8	955.4	1175.9	1881.4	6981.6	12224.0	11758.5	11552.8
77.5°	460.5	455.6	504.6	622.2	725.1	832.9	1122.0	3522.7	6648.5	6109.5	5957.7
80°	313.6	303.8	347.9	431.1	480.1	489.9	548.7	1352.2	2900.4	2733.9	2699.6
82.5°	161.7	161.7	186.2	245.0	249.9	254.8	245.0	436.0	960.3	896.6	857.4
85°	63.7	63.7	68.6	83.3	83.3	88.2	88.2	112.7	102.9	98.0	93.1
87.5°	4.9	4.9	9.8	9.8	14.7	14.7	14.7	19.6	24.5	24.5	24.5
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°	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4	4850.4
2.5°	4889.6	4870.0	4806.3	4791.6	4781.8	4767.1	4772.0	4737.7	4723.0	4727.9	4708.3
5°	4977.8	4943.5	4865.1	4830.8	4821.0	4806.3	4821.0	4796.5	4772.0	4781.8	4772.0
7.5°	5100.3	5051.3	4953.3	4919.0	4914.1	4899.4	4919.0	4899.4	4879.8	4889.6	4870.0
10°	5227.6	5164.0	5056.2	5021.9	5021.9	5017.0	5036.6	5007.2	4987.6	4992.5	4982.7
12.5°	5413.8	5330.5	5212.9	5183.6	5168.9	5183.6	5188.5	5149.3	5115.0	5119.9	5105.2
15°	5639.2	5546.1	5418.7	5374.6	5364.8	5359.9	5340.3	5291.3	5247.2	5242.3	5227.6
17.5°	5884.2	5766.6	5614.7	5570.6	5526.5	5511.8	5462.8	5399.1	5330.5	5330.5	5310.9
20°	6119.3	5987.1	5805.8	5742.1	5678.4	5619.6	5536.3	5433.4	5345.2	5330.5	5310.9
22.5°	6374.1	6217.3	6006.7	5913.6	5800.9	5683.3	5541.2	5404.0	5291.3	5266.8	5252.1
25°	6658.3	6462.3	6212.4	6075.2	5894.0	5712.7	5502.0	5325.6	5193.4	5154.2	5144.4
27.5°	6971.8	6736.7	6432.9	6232.0	5967.5	5683.3	5413.8	5203.2	5041.5	4992.5	4977.8
30°	7290.3	7011.0	6633.8	6339.8	5967.5	5590.2	5252.1	5007.2	4821.0	4752.4	4742.6
32.5°	7608.8	7295.2	6815.1	6398.6	5908.7	5433.4	5041.5	4752.4	4541.7	4458.4	4478.0
35°	7990.9	7608.8	6981.6	6423.1	5810.7	5242.3	4801.4	4463.3	4247.8	4174.3	4189.0
37.5°	8387.8	7922.3	7113.9	6403.5	5673.5	5026.8	4531.9	4203.7	3934.2	3806.8	3821.5
40°	8730.7	8206.5	7207.0	6334.9	5497.1	4781.8	4267.4	3836.2	3463.9	3341.4	3326.7
42.5°	9054.1	8417.2	7256.0	6232.0	5296.2	4497.6	3890.1	3336.5	2964.1	2812.2	2817.1
45°	9392.1	8622.9	7236.4	6094.8	5046.4	4164.5	3405.1	2846.5	2518.3	2381.1	2386.0
47.5°	9779.2	8843.4	7216.8	5947.9	4742.6	3733.3	2939.6	2415.4	2131.2	2033.2	2023.4
50°	10190.7	9088.4	7192.3	5766.6	4404.6	3253.2	2479.1	2013.6	1773.6	1709.9	1695.2
52.5°	10656.2	9352.9	7177.6	5551.0	3997.9	2743.7	2067.5	1660.9	1499.2	1455.1	1450.2
55°	11214.7	9661.6	7197.2	5291.3	3508.0	2263.5	1719.7	1430.6	1322.8	1298.3	1293.4
57.5°	11895.7	10058.4	7256.0	4987.6	2993.5	1847.1	1464.9	1288.5	1219.9	1200.4	1200.4
60°	12635.5	10509.2	7363.8	4644.6	2479.1	1523.7	1298.3	1175.9	1146.5	1171.0	1171.0
62.5°	13434.1	11038.3	7554.9	4228.2	1999.0	1288.5	1166.1	1082.8	1063.2	1112.2	1117.1
65°	14173.9	11552.8	7677.3	3728.4	1587.4	1117.1	1063.2	989.7	999.5	1048.5	1043.6
67.5°	14629.6	11979.0	7505.9	3101.3	1259.1	989.7	955.4	891.7	916.2	955.4	960.3
70°	14350.3	11738.9	6658.3	2341.9	984.8	862.3	837.8	798.6	818.2	867.2	886.8
72.5°	12983.4	10514.1	5178.7	1582.5	793.7	725.1	734.9	715.3	739.8	783.9	828.0
75°	10538.6	7946.8	3473.7	1014.2	627.1	617.3	632.0	617.3	627.1	671.2	695.7
77.5°	5502.0	3875.4	1729.5	632.0	465.4	480.1	504.6	509.5	538.9	548.7	558.5
80°	2567.3	1744.2	720.2	352.8	308.7	338.1	387.1	392.0	401.7	416.4	421.3
82.5°	837.8	524.2	333.2	191.1	176.4	191.1	249.9	298.9	303.8	333.2	333.2
85°	88.2	53.9	73.5	78.4	68.6	83.3	112.7	107.8	49.0	29.4	29.4
87.5°	24.5	19.6	24.5	24.5	19.6	19.6	14.7	4.9	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)