

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: P841673

Luminaire Tested: **ARCH4-210-730-U-T4W-HSS**

Issue Date: 5/27/2024

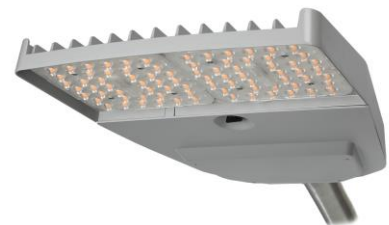
Test Information

Test Method: LM-79-08
Report Number: P841673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22400 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 213.1
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



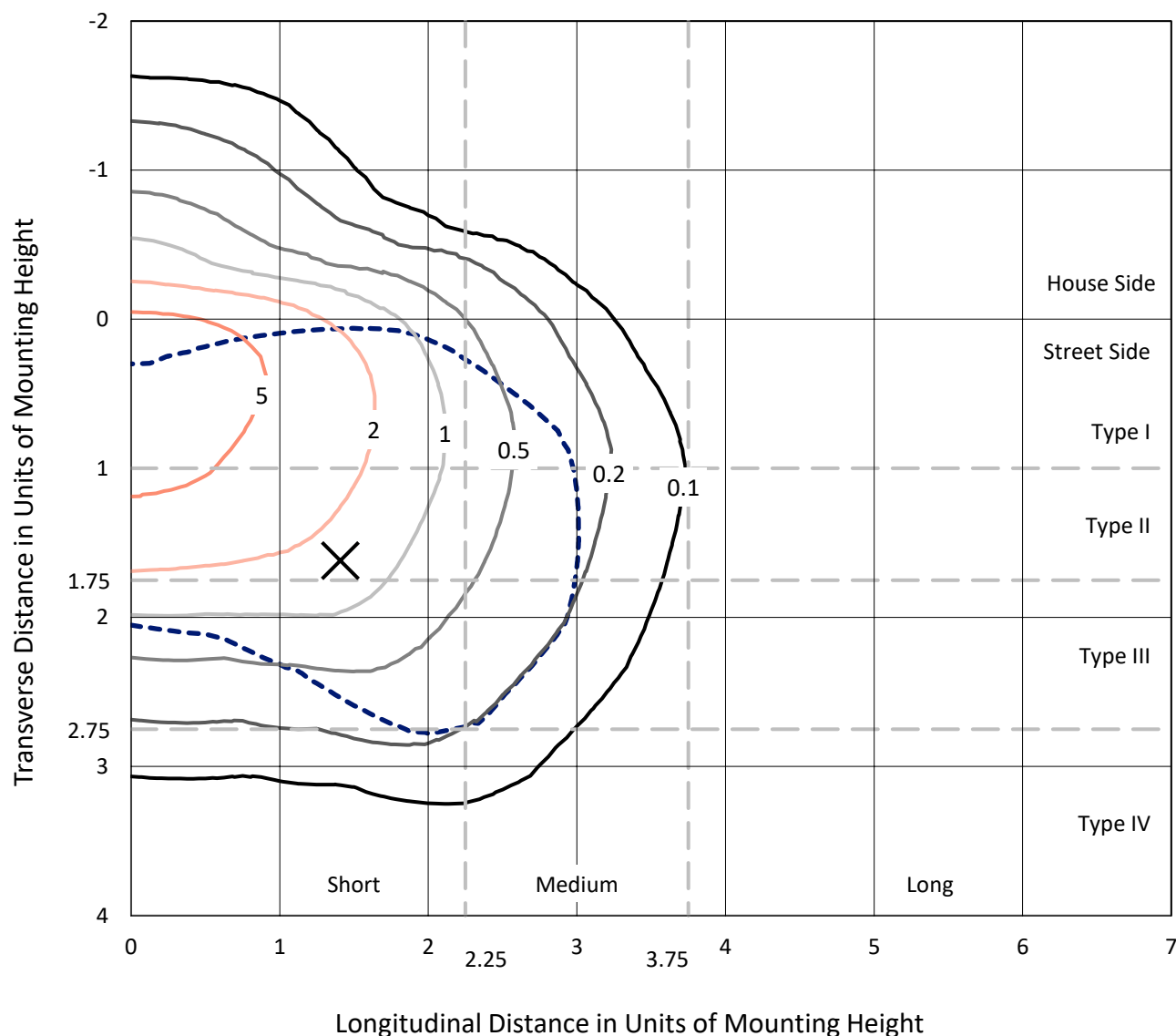
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

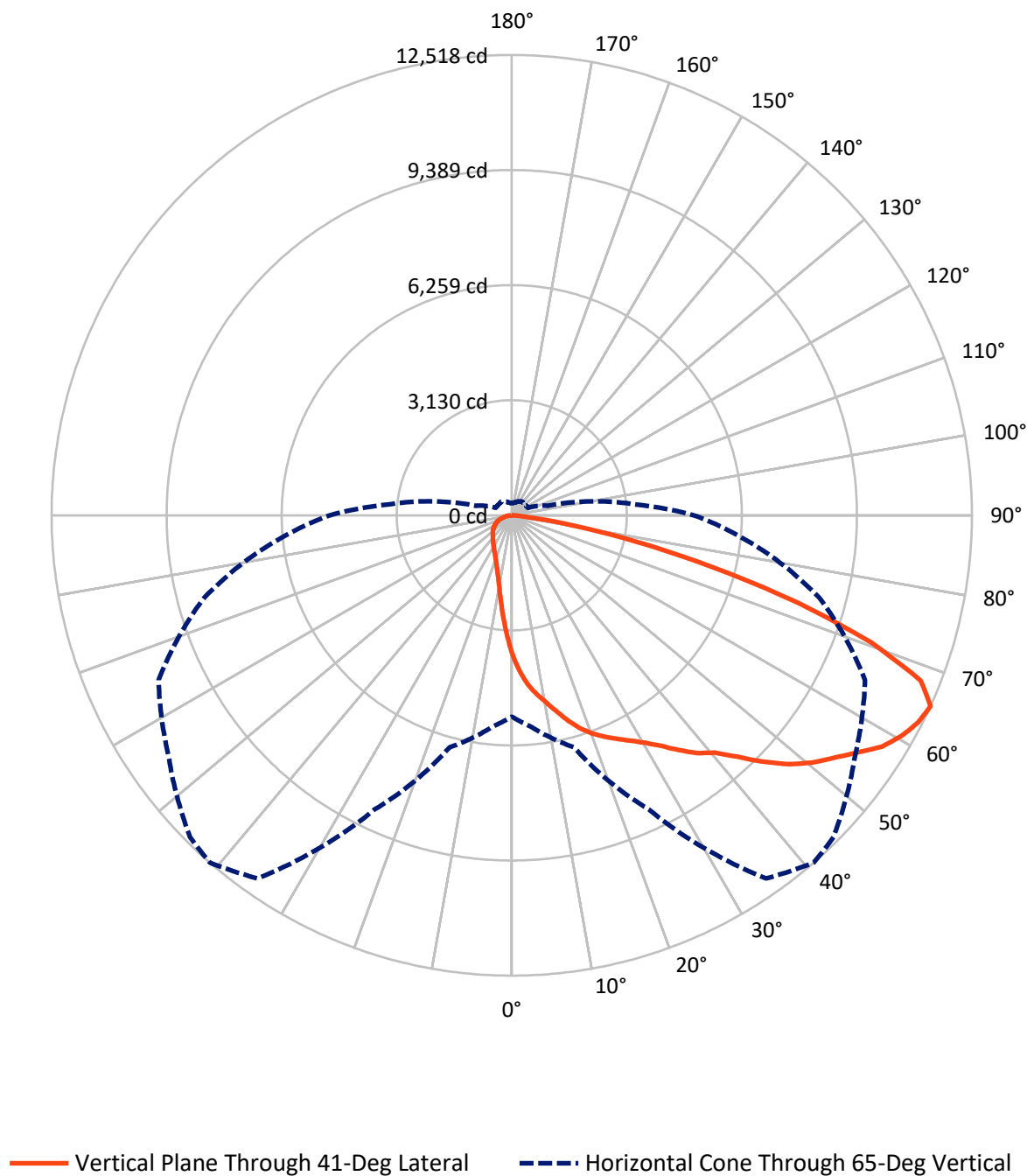


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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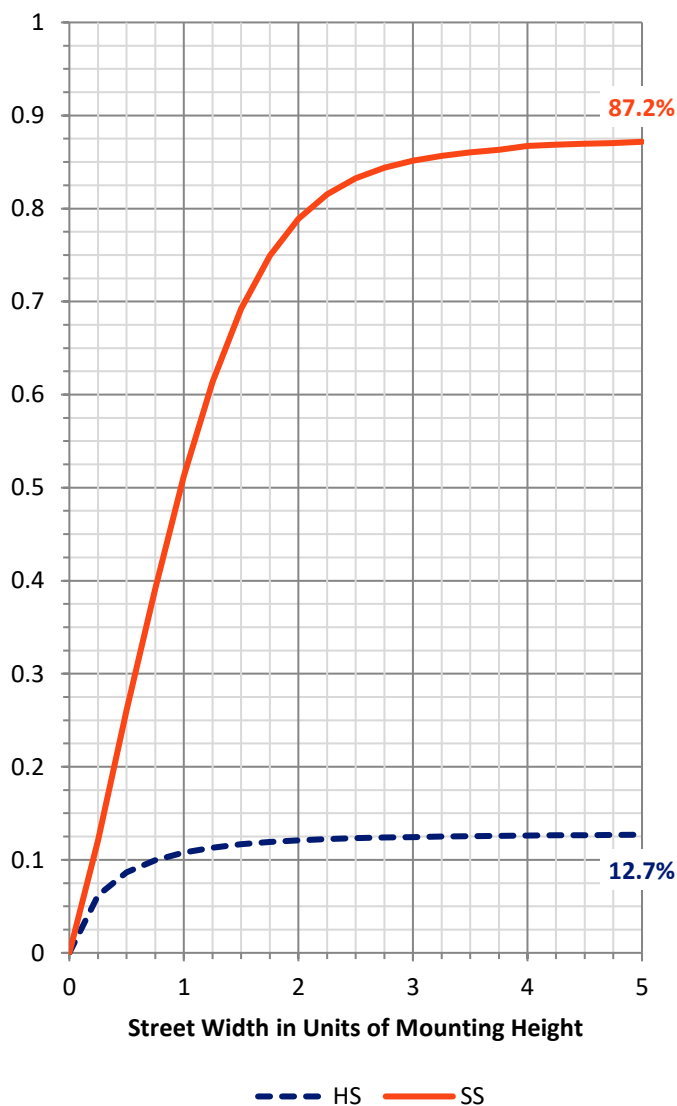
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2875.8	0.0	2875.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	19524.2	0.0	19524.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	22400.0	0.0	22400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.6	1.6
10°-20°	1066.4	4.8
20°-30°	1834.6	8.2
30°-40°	2782.4	12.4
40°-50°	4076.3	18.2
50°-60°	5147.5	23.0
60°-70°	4826.7	21.5
70°-80°	2151.2	9.6
80°-90°	159.4	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°	22400.0	100.0
0°-180°	22400.0	100.0

Coefficient of Utilization



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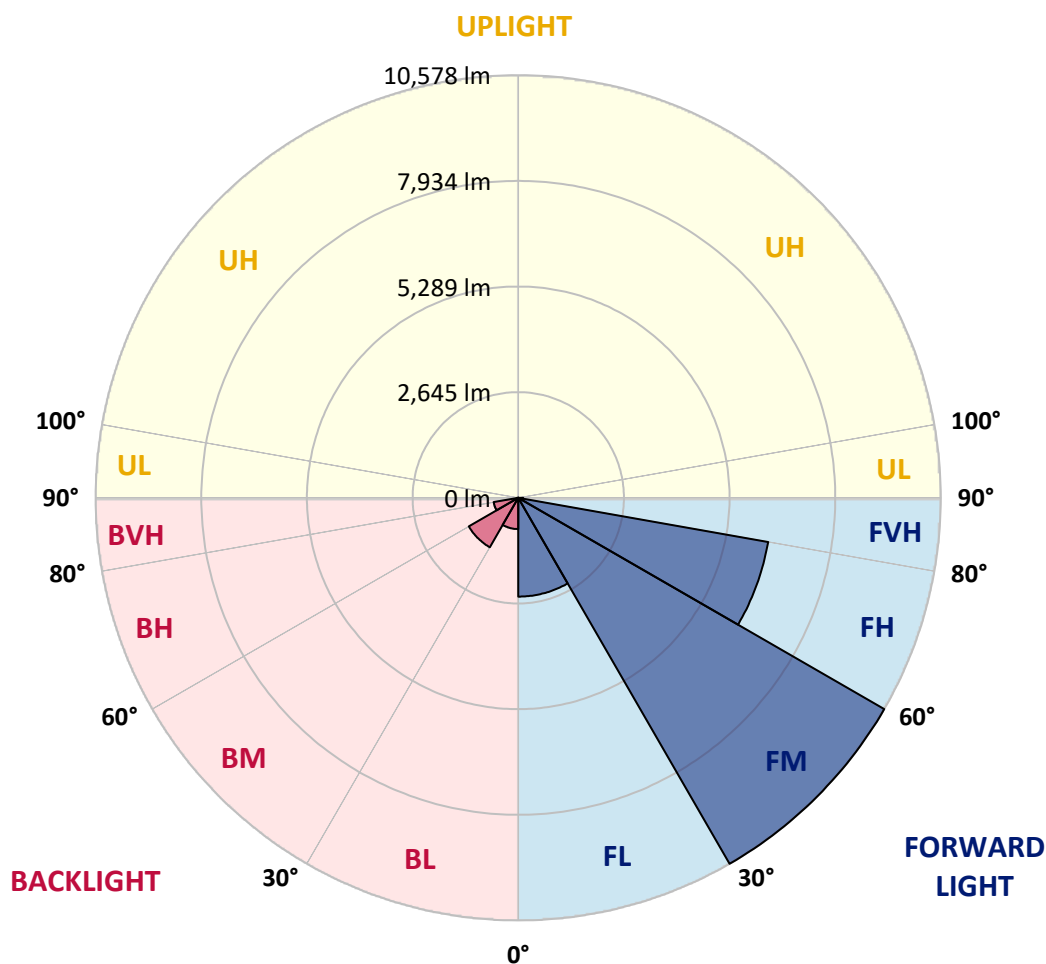
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2473.8	11.0			
FM	(30°-60°)	10578.2	47.2			
FH	(60°-80°)	6353.2	28.4			G3/7500
FVH	(80°-90°)	119.0	0.5			G2/225
BL	(0°-30°)	782.8	3.5	B2/1000		
BM	(30°-60°)	1428.0	6.4	B2/2500		
BH	(60°-80°)	624.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	40.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8
2.5°	4402.6	4388.4	4379.0	4327.0	4327.0	4256.2	4260.9	4194.7	4114.4	3986.9	3849.9
5°	4818.3	4799.4	4775.8	4723.8	4704.9	4634.1	4624.6	4530.1	4393.1	4171.1	3925.5
7.5°	5182.0	5163.1	5130.1	5054.5	5002.5	4917.5	4893.9	4771.1	4619.9	4345.9	4001.1
10°	5512.7	5498.5	5456.0	5361.5	5290.7	5186.7	5144.2	4978.9	4789.9	4487.6	4062.5
12.5°	5848.1	5829.2	5772.5	5692.2	5607.2	5484.3	5432.4	5219.8	4978.9	4643.5	4152.2
15°	6159.9	6131.5	6089.0	6004.0	5928.4	5810.3	5753.6	5503.2	5210.4	4818.3	4270.3
17.5°	6363.0	6339.4	6301.6	6254.3	6192.9	6103.2	6046.5	5800.8	5441.8	4988.3	4393.1
20°	6485.8	6476.4	6462.2	6433.8	6405.5	6344.1	6301.6	6070.1	5692.2	5153.7	4511.2
22.5°	6580.3	6570.8	6566.1	6566.1	6570.8	6547.2	6518.9	6320.5	5933.1	5328.5	4619.9
25°	6726.7	6722.0	6712.5	6703.1	6736.2	6740.9	6731.4	6594.4	6235.4	5559.9	4756.9
27.5°	6929.8	6915.7	6896.8	6887.3	6920.4	6944.0	6962.9	6868.4	6556.7	5796.1	4912.8
30°	7241.6	7199.1	7151.9	7118.8	7142.4	7180.2	7222.7	7166.0	6887.3	6089.0	5073.4
32.5°	7610.1	7558.1	7449.5	7388.0	7449.5	7477.8	7510.9	7482.5	7232.2	6405.5	5234.0
35°	8058.8	7997.4	7884.0	7794.3	7902.9	7841.5	7827.4	7799.0	7558.1	6717.3	5413.5
37.5°	8805.2	8715.4	8535.9	8337.5	8337.5	8205.3	8153.3	8068.3	7851.0	6996.0	5588.3
40°	9669.7	9551.6	9320.1	9027.2	8758.0	8484.0	8450.9	8389.5	8195.8	7317.2	5786.7
42.5°	10619.1	10392.4	10071.2	9716.9	9282.3	8970.5	8894.9	8720.2	8531.2	7643.1	5985.1
45°	11672.5	11200.2	10732.5	10553.0	9835.0	9551.6	9409.8	9093.3	8880.8	7983.2	6192.9
47.5°	11842.6	11474.1	11162.4	11134.0	10349.9	10113.7	9953.1	9499.6	9258.7	8347.0	6410.2
50°	11748.1	11526.1	11559.2	11445.8	10727.8	10571.9	10449.1	9934.2	9631.9	8696.5	6608.6
52.5°	11351.3	11474.1	11663.1	11455.3	11086.8	10959.3	10897.8	10401.8	9981.4	9017.8	6788.1
55°	10878.9	10964.0	11370.2	11625.3	11502.5	11389.1	11332.4	10945.1	10326.3	9287.0	6953.5
57.5°	10189.3	10151.5	10600.2	11597.0	11937.1	11870.9	11809.5	11478.9	10647.5	9480.7	7057.4
60°	9154.8	9074.4	9641.3	11030.1	12078.8	12182.7	12154.4	11833.2	10893.1	9476.0	7014.9
62.5°	7364.4	7562.8	8347.0	10104.2	12140.2	12404.7	12352.8	11861.5	10973.4	9202.0	6745.6
65°	5474.9	5758.3	6528.3	8828.8	12055.2	12518.1	12376.4	11398.6	10600.2	8658.8	6155.1
67.5°	3944.4	4194.7	4756.9	7265.2	11238.0	11998.5	11833.2	10642.8	9740.5	7888.8	5337.9
70°	2697.3	2876.8	3259.4	5290.7	9594.1	10373.5	10269.6	9513.8	8384.8	6972.4	4336.5
72.5°	1903.7	1979.3	2224.9	3490.9	7288.8	8139.1	8016.3	7827.4	6736.2	5796.1	3372.8
75°	1426.6	1473.8	1606.1	2258.0	4917.5	5640.2	5526.9	5635.5	5030.9	4388.4	2456.4
77.5°	538.5	585.8	911.7	1440.8	2909.9	3462.6	3349.2	3415.3	2796.5	2215.5	1223.5
80°	146.4	155.9	302.3	685.0	1322.7	1724.2	1568.3	1346.3	1039.2	1020.3	647.2
82.5°	61.4	70.9	137.0	368.5	472.4	472.4	396.8	491.3	396.8	477.1	311.8
85°	23.6	28.3	33.1	94.5	61.4	66.1	70.9	94.5	80.3	99.2	70.9
87.5°	0.0	0.0	0.0	4.7	4.7	9.4	4.7	9.4	14.2	14.2	14.2
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°	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8	3816.8
2.5°	3793.2	3741.3	3665.7	3542.9	3415.3	3344.5	3254.7	3240.5	3146.1	3136.6	3098.8
5°	3816.8	3708.2	3514.5	3278.3	3046.9	2867.4	2735.1	2664.2	2527.2	2527.2	2489.5
7.5°	3835.7	3665.7	3353.9	3004.3	2687.9	2446.9	2267.4	2191.9	2069.0	2059.6	2031.2
10°	3840.5	3613.7	3179.1	2725.6	2338.3	2092.7	1917.9	1832.8	1724.2	1714.7	1695.8
12.5°	3878.3	3585.4	3023.2	2484.7	2087.9	1823.4	1653.3	1582.5	1497.4	1488.0	1469.1
15°	3939.7	3585.4	2891.0	2281.6	1865.9	1620.3	1473.8	1407.7	1346.3	1336.8	1327.4
17.5°	4001.1	3575.9	2758.7	2092.7	1681.7	1459.7	1332.1	1280.2	1232.9	1228.2	1218.7
20°	4057.8	3571.2	2626.4	1932.0	1540.0	1327.4	1228.2	1181.0	1143.2	1143.2	1138.4
22.5°	4114.4	3561.8	2498.9	1780.9	1417.1	1228.2	1143.2	1091.2	1062.9	1062.9	1058.1
25°	4199.5	3561.8	2380.8	1653.3	1317.9	1152.6	1067.6	1029.8	1006.2	1001.4	1001.4
27.5°	4298.7	3590.1	2276.9	1540.0	1232.9	1077.0	1010.9	973.1	944.8	935.3	940.0
30°	4407.3	3613.7	2182.4	1440.8	1152.6	1020.3	949.5	911.7	883.4	873.9	878.6
32.5°	4516.0	3642.1	2097.4	1351.0	1072.3	968.4	897.5	855.0	826.7	821.9	821.9
35°	4634.1	3670.4	2012.3	1275.4	1006.2	916.4	850.3	803.0	784.2	774.7	779.4
37.5°	4752.2	3717.6	1932.0	1204.6	958.9	869.2	807.8	760.5	746.4	741.6	741.6
40°	4893.9	3788.5	1899.0	1157.3	916.4	826.7	774.7	727.5	713.3	713.3	713.3
42.5°	5012.0	3845.2	1870.6	1105.4	883.4	788.9	741.6	703.8	694.4	689.7	694.4
45°	5130.1	3897.1	1832.8	1058.1	840.8	751.1	713.3	675.5	666.1	666.1	666.1
47.5°	5248.2	3925.5	1780.9	1010.9	803.0	718.0	685.0	651.9	642.4	642.4	642.4
50°	5342.6	3949.1	1705.3	958.9	760.5	689.7	656.6	623.5	614.1	614.1	614.1
52.5°	5437.1	3953.8	1625.0	897.5	718.0	656.6	628.3	595.2	585.8	581.0	581.0
55°	5522.1	3949.1	1530.5	826.7	670.8	618.8	595.2	566.9	548.0	529.1	538.5
57.5°	5583.5	3944.4	1421.9	755.8	623.5	581.0	571.6	533.8	496.0	448.8	458.2
60°	5559.9	3892.4	1303.8	666.1	571.6	543.2	543.2	491.3	425.1	401.5	406.2
62.5°	5408.8	3746.0	1181.0	571.6	519.6	505.4	500.7	444.0	392.1	368.5	373.2
65°	4955.3	3377.5	1001.4	486.6	467.7	462.9	462.9	411.0	363.7	335.4	340.1
67.5°	4265.6	2834.3	817.2	411.0	415.7	425.1	425.1	377.9	330.7	302.3	307.0
70°	3420.0	2215.5	651.9	354.3	359.0	373.2	382.6	340.1	297.6	269.3	269.3
72.5°	2574.5	1681.7	524.3	297.6	321.2	321.2	335.4	302.3	259.8	231.5	236.2
75°	1865.9	1204.6	415.7	250.4	278.7	274.0	274.0	255.1	222.0	203.1	203.1
77.5°	883.4	633.0	330.7	179.5	217.3	212.6	217.3	203.1	189.0	170.1	174.8
80°	434.6	311.8	212.6	127.5	151.2	155.9	170.1	160.6	155.9	141.7	141.7
82.5°	207.8	122.8	99.2	89.8	103.9	108.6	118.1	118.1	122.8	113.4	113.4
85°	56.7	33.1	42.5	56.7	66.1	70.9	80.3	85.0	85.0	80.3	85.0
87.5°	14.2	14.2	18.9	28.3	33.1	37.8	42.5	42.5	18.9	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)