

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: P841435

Luminaire Tested: **ARCH4-180-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

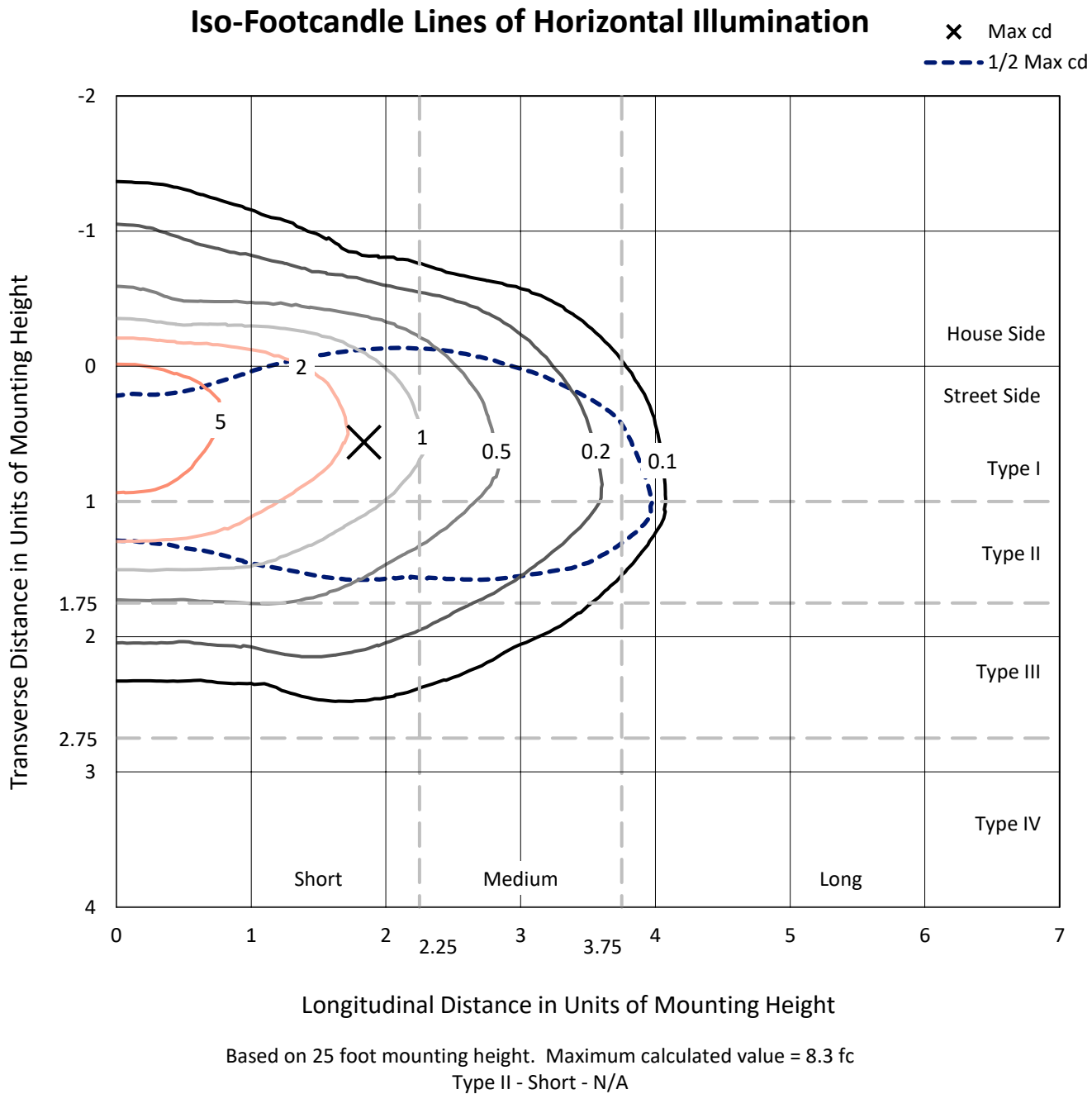
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17461 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 180
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

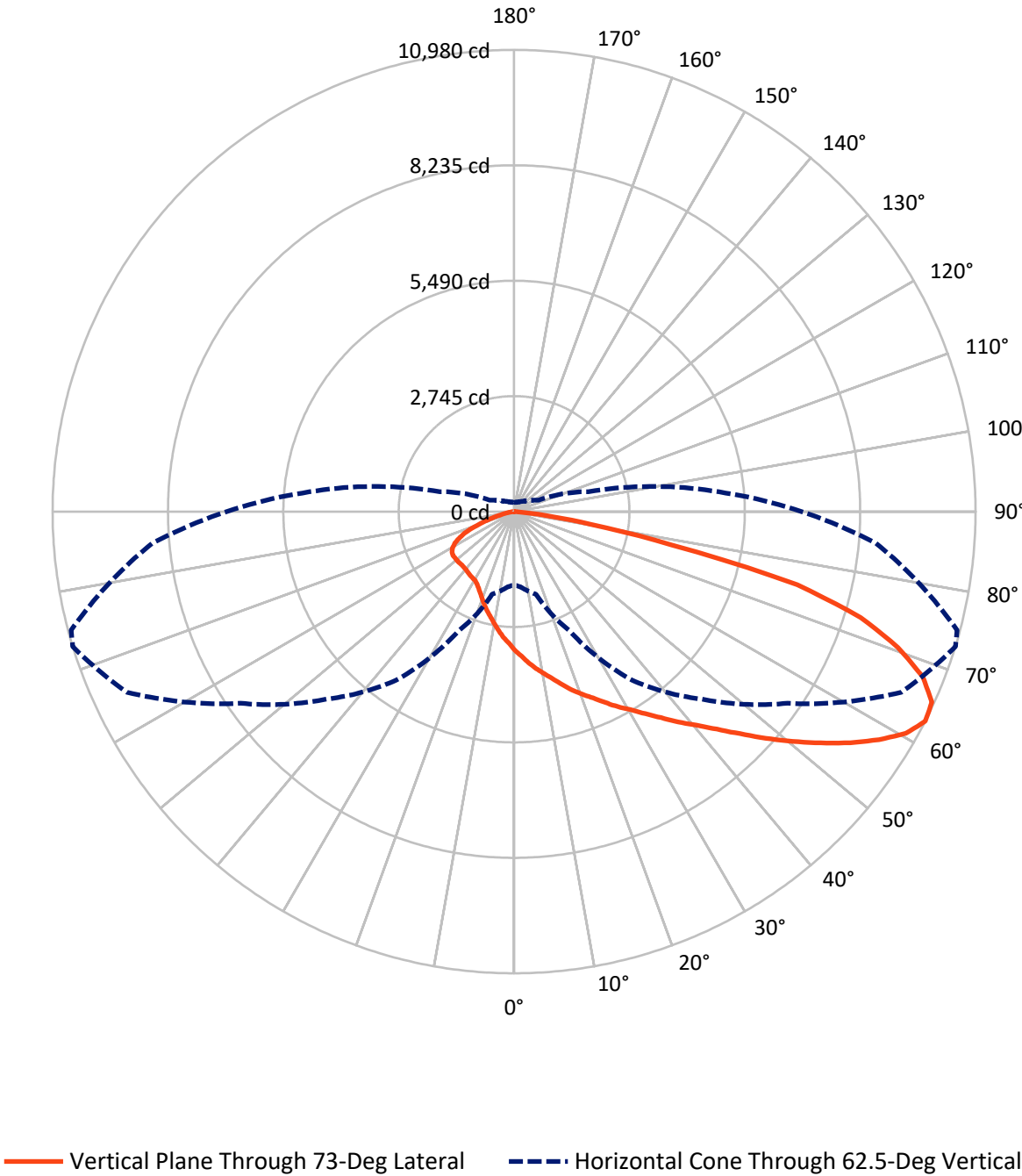


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Luminous Intensity Polar Plot



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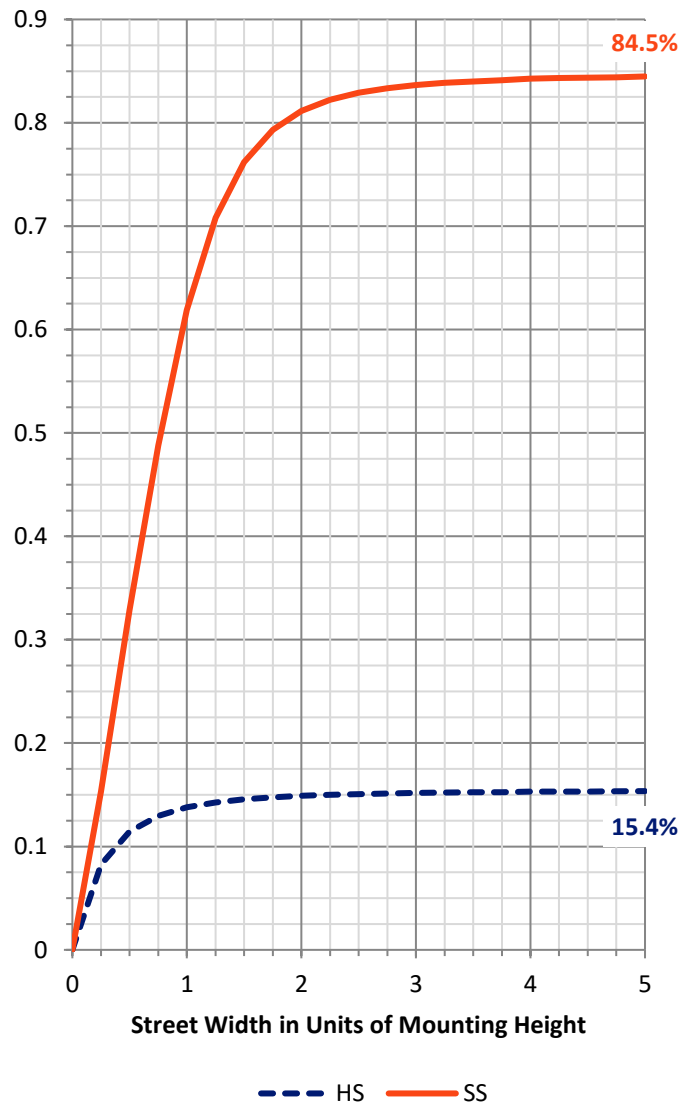
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2706.7	0.0	2706.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	14754.3	0.0	14754.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	17461.0	0.0	17461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	1.8
10°-20°	963.8	5.5
20°-30°	1604.3	9.2
30°-40°	2420.7	13.9
40°-50°	3383.4	19.4
50°-60°	3737.2	21.4
60°-70°	3255.6	18.6
70°-80°	1644.5	9.4
80°-90°	132.0	0.8
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°	17461.0	100.0
0°-180°	17461.0	100.0

Coefficient of Utilization



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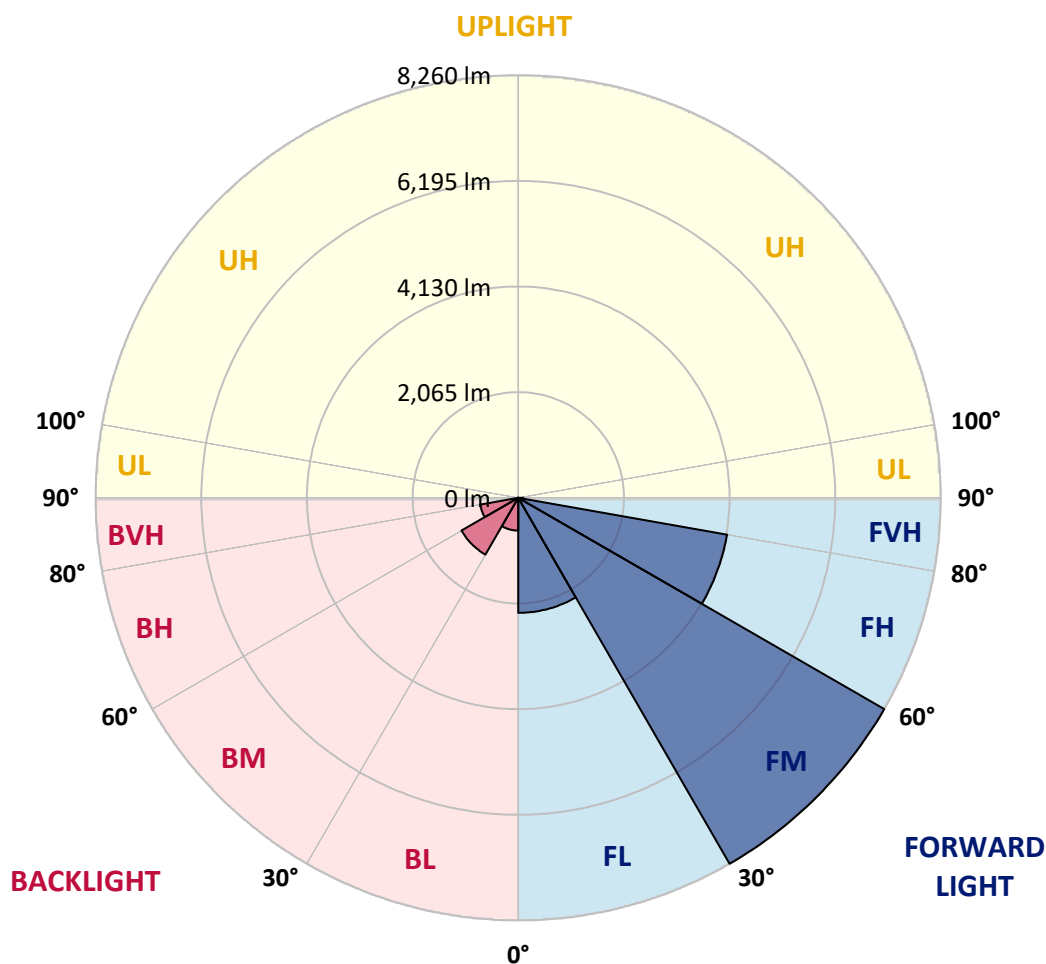
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2247.8	12.9			
FM	(30°-60°)	8259.7	47.3			
FH	(60°-80°)	4144.7	23.7			G2/5000
FVH	(80°-90°)	102.2	0.6			G2/225
BL	(0°-30°)	639.8	3.7	B2/1000		
BM	(30°-60°)	1281.6	7.3	B2/2500		
BH	(60°-80°)	755.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	29.8	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3
2.5°	3762.8	3804.7	3781.9	3797.1	3721.0	3671.5	3614.5	3504.1	3443.2	3435.6	3363.3
5°	4314.5	4360.2	4322.1	4310.7	4177.6	4063.4	3934.1	3740.0	3610.7	3587.8	3428.0
7.5°	4866.2	4908.1	4862.4	4828.2	4649.3	4447.7	4257.5	3972.1	3770.4	3732.4	3481.3
10°	5254.3	5292.3	5258.1	5223.8	5037.4	4832.0	4561.8	4189.0	3915.0	3854.2	3515.5
12.5°	5547.2	5570.1	5554.9	5524.4	5349.4	5128.7	4870.0	4432.5	4078.6	4002.5	3568.8
15°	5786.9	5825.0	5806.0	5783.1	5615.7	5395.1	5147.7	4687.4	4268.9	4173.7	3648.7
17.5°	5946.7	5973.4	5977.2	5977.2	5828.8	5611.9	5372.2	4919.5	4459.1	4337.3	3724.8
20°	6019.0	6049.5	6068.5	6098.9	5977.2	5790.7	5547.2	5117.3	4637.9	4501.0	3797.1
22.5°	6053.3	6079.9	6129.4	6197.8	6098.9	5942.9	5718.5	5299.9	4816.7	4672.2	3880.8
25°	6079.9	6114.1	6186.4	6315.8	6247.3	6114.1	5920.1	5509.2	5029.8	4881.4	4002.5
27.5°	6152.2	6194.0	6262.5	6418.5	6334.8	6270.1	6133.2	5733.7	5254.3	5102.1	4150.9
30°	6403.3	6437.5	6433.7	6532.7	6429.9	6410.9	6315.8	5950.5	5471.1	5319.0	4325.9
32.5°	6859.9	6894.1	6810.4	6772.4	6547.9	6551.7	6513.6	6182.6	5729.9	5573.9	4527.6
35°	7350.7	7388.7	7278.4	7213.7	6837.0	6726.7	6745.7	6471.8	6019.0	5863.0	4778.7
37.5°	7788.2	7833.9	7738.7	7643.6	7263.2	7008.2	7004.4	6795.2	6350.0	6190.2	5056.4
40°	8027.9	8081.2	8138.2	8085.0	7685.5	7403.9	7282.2	7126.2	6677.2	6513.6	5357.0
42.5°	8142.0	8290.4	8393.2	8358.9	8031.7	7746.4	7601.8	7472.4	7076.7	6916.9	5714.6
45°	7822.4	7826.3	8043.1	8229.5	8168.7	7978.4	7951.8	7860.5	7533.3	7381.1	6117.9
47.5°	7423.0	7392.5	7544.7	7875.7	8046.9	8096.4	8252.4	8290.4	8054.5	7902.3	6528.9
50°	6464.2	6483.2	6977.8	7453.4	7788.2	8107.8	8465.4	8731.8	8591.0	8446.4	6962.6
52.5°	5258.1	5303.7	5870.6	6916.9	7445.8	7993.7	8591.0	9173.1	9138.9	9001.9	7396.3
55°	4215.6	4287.9	4889.0	6022.8	7008.2	7738.7	8644.3	9576.4	9705.8	9580.2	7822.4
57.5°	3222.6	3298.7	3804.7	4968.9	6449.0	7324.0	8606.2	9930.2	10234.6	10154.7	8214.3
60°	2427.4	2503.5	2826.9	4029.2	5748.9	6859.9	8416.0	10162.3	10710.2	10626.5	8499.7
62.5°	1738.7	1799.6	2039.3	3135.1	4896.6	6308.2	7948.0	10166.1	10980.3	10911.9	8636.7
65°	1251.7	1251.7	1445.8	2237.2	4097.7	5646.2	7240.3	9698.2	10923.3	10904.2	8541.5
67.5°	901.7	909.3	1065.3	1563.7	3268.2	4843.4	6323.4	8864.9	10481.9	10577.0	8199.1
70°	639.2	658.2	730.5	1091.9	2469.2	3823.7	5341.8	7773.0	9686.7	9854.2	7537.1
72.5°	494.6	506.0	555.5	760.9	1803.4	2842.1	4257.5	6555.5	8625.2	8815.5	6635.4
75°	380.5	391.9	429.9	559.3	1293.6	1993.7	3024.7	5086.9	6955.0	7293.6	5330.4
77.5°	277.7	293.0	319.6	407.1	753.3	1267.0	1833.9	2861.1	3838.9	3998.7	2792.6
80°	129.4	148.4	186.4	262.5	407.1	597.3	650.6	1103.4	1845.3	1929.0	1514.3
82.5°	72.3	91.3	106.5	159.8	205.5	213.1	220.7	277.7	696.3	768.5	635.4
85°	34.2	45.7	49.5	68.5	68.5	60.9	72.3	53.3	114.1	137.0	133.2
87.5°	0.0	3.8	7.6	19.0	15.2	11.4	11.4	11.4	11.4	15.2	11.4
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°	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3
2.5°	3329.1	3279.6	3165.5	3066.6	3001.9	2944.8	2868.7	2834.5	2773.6	2785.0	2750.8
5°	3348.1	3256.8	3055.2	2868.7	2731.8	2610.0	2476.9	2400.8	2317.1	2309.4	2282.8
7.5°	3359.5	3218.8	2929.6	2667.1	2457.8	2271.4	2092.6	1993.7	1890.9	1868.1	1845.3
10°	3348.1	3161.7	2800.3	2457.8	2180.1	1948.0	1746.4	1620.8	1514.3	1487.6	1464.8
12.5°	3359.5	3131.3	2678.5	2263.8	1932.8	1670.3	1442.0	1312.6	1213.7	1187.1	1171.8
15°	3386.2	3112.2	2575.8	2088.8	1712.1	1419.2	1194.7	1084.3	1004.4	977.8	970.2
17.5°	3409.0	3093.2	2465.4	1917.6	1491.4	1198.5	1004.4	913.1	844.6	818.0	810.4
20°	3439.4	3066.6	2355.1	1754.0	1297.4	1023.5	852.3	772.4	719.1	700.1	696.3
22.5°	3466.1	3047.6	2252.4	1590.4	1118.6	882.7	738.1	673.4	635.4	616.4	616.4
25°	3534.6	3055.2	2164.9	1438.2	985.4	772.4	650.6	601.1	570.7	559.3	559.3
27.5°	3614.5	3085.6	2096.4	1308.8	871.3	688.6	589.7	547.9	532.7	517.4	521.2
30°	3728.6	3146.5	2050.7	1202.3	787.6	624.0	540.3	509.8	494.6	490.8	490.8
32.5°	3873.2	3245.4	2046.9	1133.8	726.7	574.5	506.0	479.4	471.8	468.0	468.0
35°	4044.4	3332.9	2024.1	1103.4	688.6	540.3	479.4	460.4	456.6	456.6	456.6
37.5°	4249.8	3477.5	2008.9	1061.5	669.6	521.2	460.4	445.1	445.1	445.1	445.1
40°	4462.9	3595.4	1986.0	1023.5	662.0	509.8	449.0	429.9	429.9	429.9	429.9
42.5°	4717.8	3766.6	1978.4	1004.4	650.6	502.2	433.7	410.9	414.7	414.7	418.5
45°	5026.0	3960.7	1974.6	985.4	646.8	494.6	418.5	391.9	395.7	391.9	391.9
47.5°	5338.0	4185.2	1986.0	974.0	643.0	487.0	407.1	372.9	372.9	369.1	369.1
50°	5665.2	4390.6	1993.7	962.6	635.4	471.8	388.1	357.6	350.0	342.4	346.2
52.5°	5973.4	4580.8	1997.5	943.6	612.6	449.0	372.9	338.6	327.2	315.8	319.6
55°	6281.5	4763.5	2005.1	920.7	582.1	426.1	353.8	319.6	304.4	289.2	289.2
57.5°	6559.3	4923.3	1986.0	863.7	547.9	403.3	334.8	296.8	273.9	258.7	258.7
60°	6749.5	5037.4	1929.0	780.0	502.2	376.7	315.8	273.9	247.3	235.9	235.9
62.5°	6840.8	5056.4	1826.3	643.0	445.1	350.0	293.0	251.1	228.3	220.7	220.7
65°	6753.3	4972.7	1666.5	483.2	384.3	319.6	270.1	232.1	209.3	190.2	190.2
67.5°	6449.0	4736.8	1445.8	365.3	327.2	289.2	247.3	213.1	186.4	171.2	171.2
70°	5836.4	4246.0	1118.6	293.0	277.7	251.1	224.5	190.2	167.4	148.4	148.4
72.5°	5033.6	3599.2	787.6	235.9	235.9	213.1	190.2	167.4	144.6	129.4	129.4
75°	3861.8	2663.3	528.9	190.2	194.0	178.8	156.0	137.0	121.8	110.3	110.3
77.5°	2107.8	1316.4	323.4	140.8	144.6	137.0	121.8	110.3	102.7	91.3	91.3
80°	1023.5	578.3	186.4	98.9	102.7	98.9	91.3	79.9	79.9	72.3	72.3
82.5°	429.9	216.9	98.9	68.5	68.5	60.9	57.1	57.1	57.1	53.3	53.3
85°	106.5	41.9	41.9	38.0	38.0	38.0	34.2	34.2	34.2	26.6	30.4
87.5°	15.2	15.2	15.2	15.2	15.2	15.2	11.4	3.8	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)