

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: P836855

Luminaire Tested: **ARCH3-80-750-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9678 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

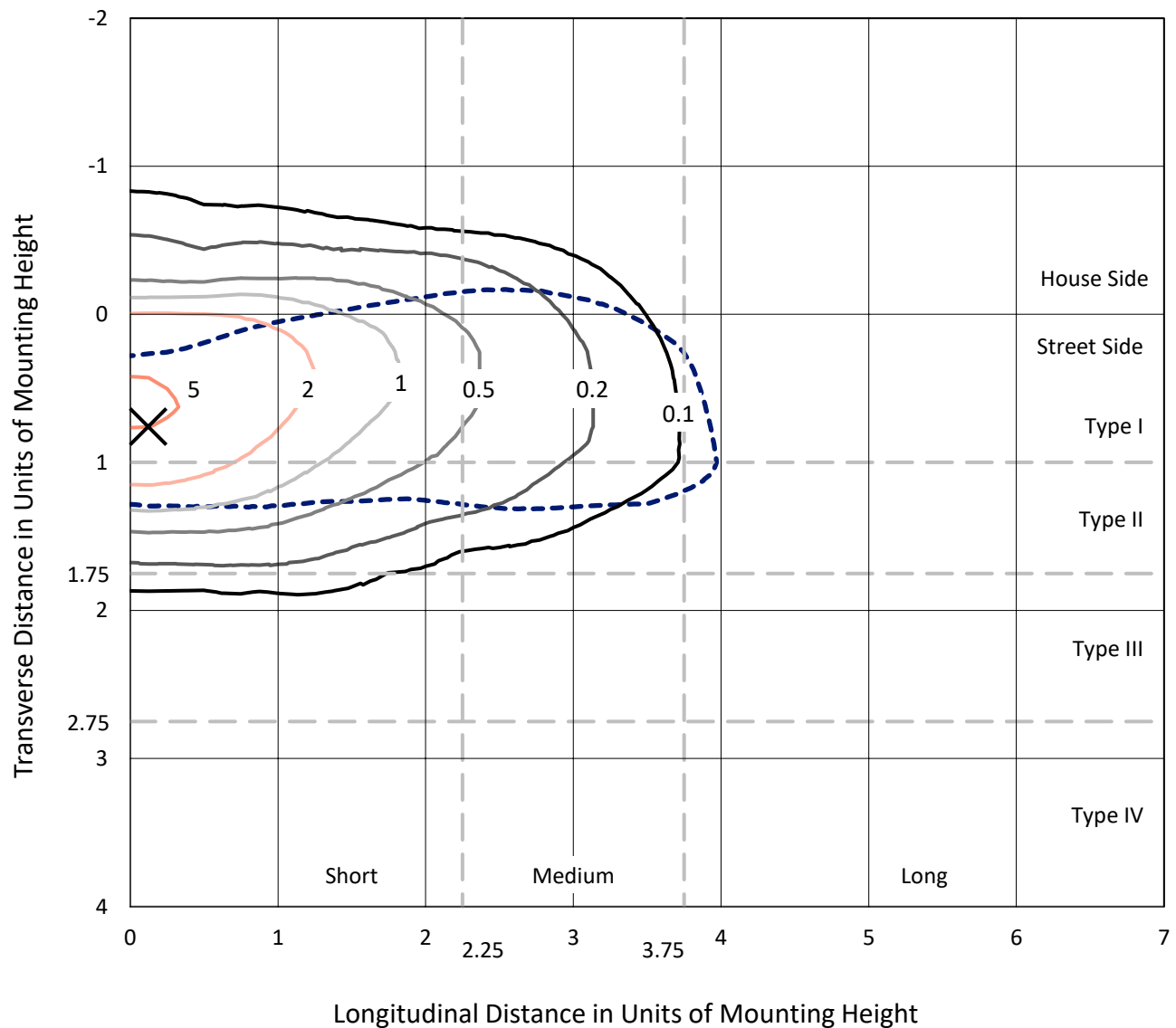
Input Watts (W): 81.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

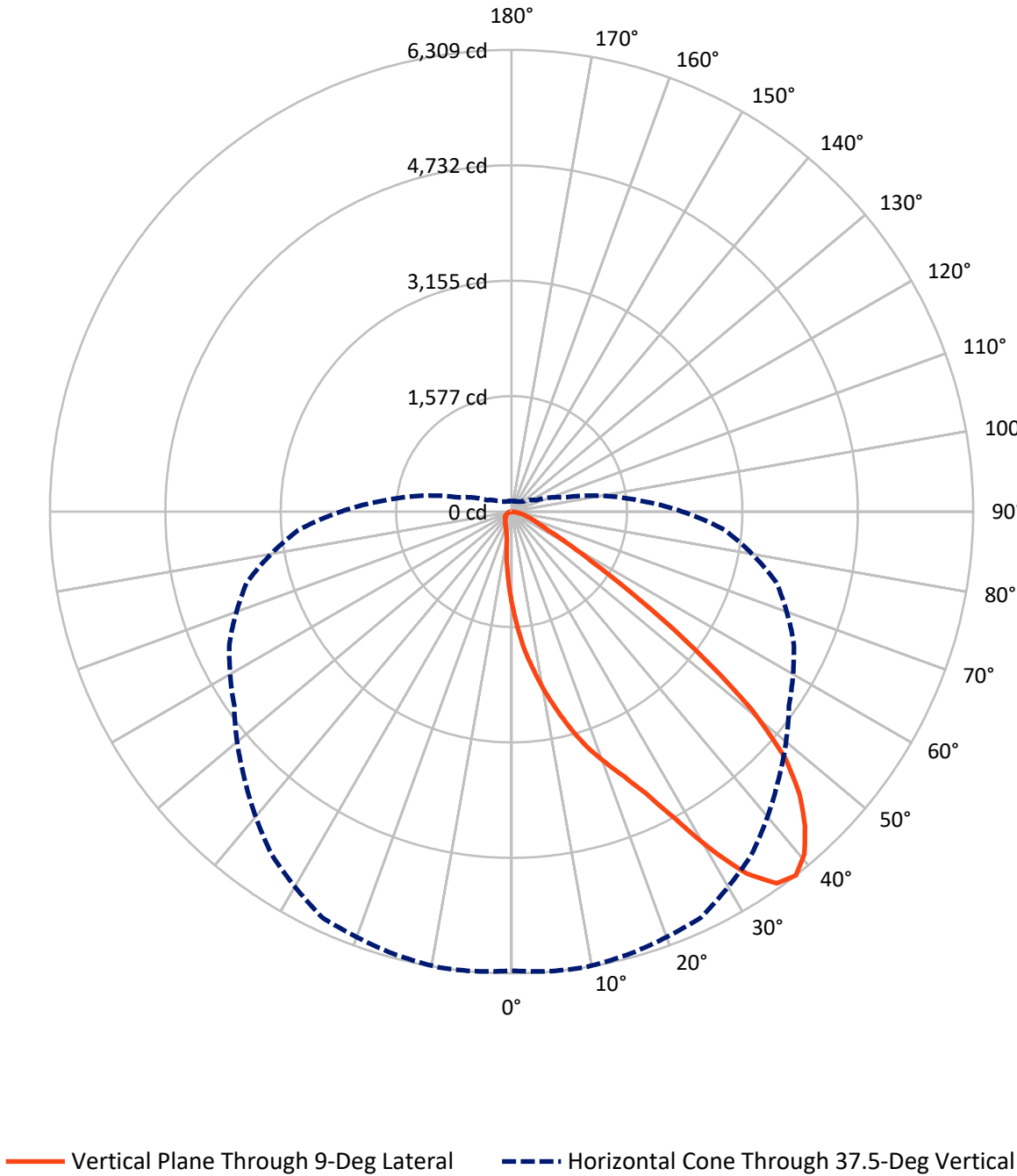
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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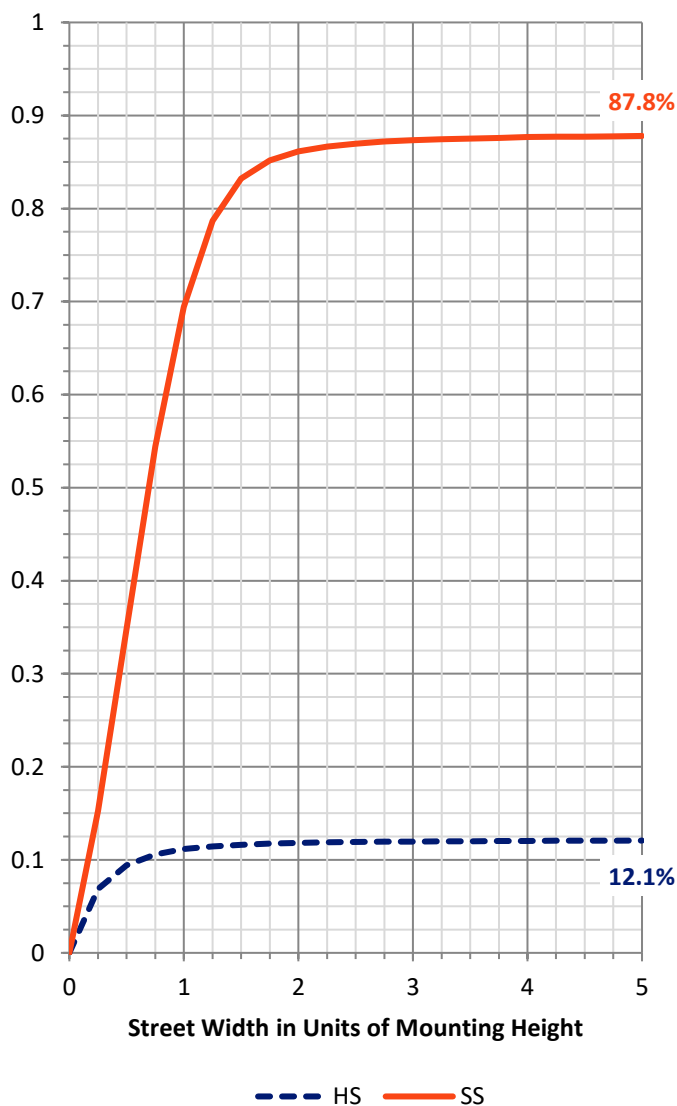
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1177.0	0.0	1177.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8501.0	0.0	8501.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	9678.0	0.0	9678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	1.3
10°-20°	446.9	4.6
20°-30°	918.4	9.5
30°-40°	1623.3	16.8
40°-50°	2156.4	22.3
50°-60°	2045.2	21.1
60°-70°	1560.3	16.1
70°-80°	756.4	7.8
80°-90°	42.6	0.4
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°	9678.0	100.0
0°-180°	9678.0	100.0

Coefficient of Utilization



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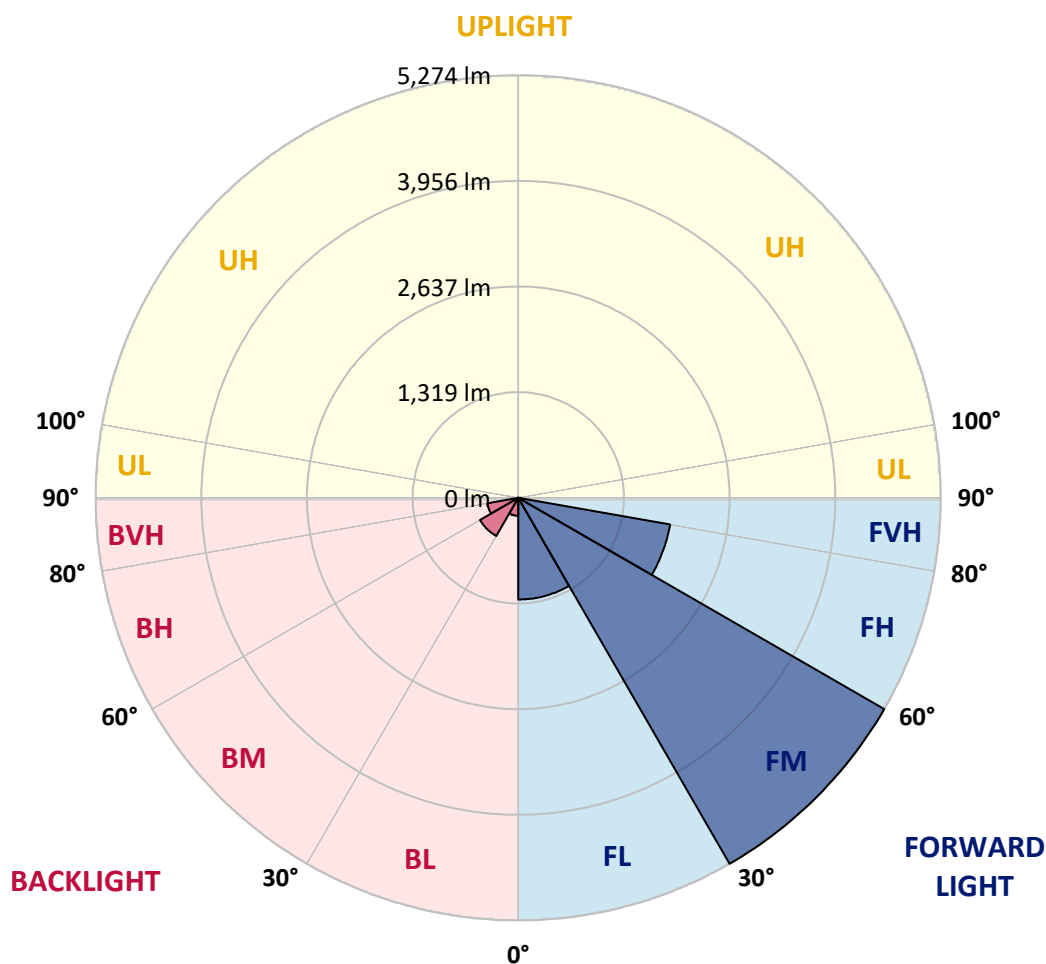
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1269.3	13.1			
FM	(30°-60°)	5274.0	54.5			
FH	(60°-80°)	1924.0	19.9			G2/5000
FVH	(80°-90°)	33.7	0.3			G1/100
BL	(0°-30°)	224.6	2.3	B1/500		
BM	(30°-60°)	550.8	5.7	B1/1000		
BH	(60°-80°)	392.8	4.1	B1/500		G1/500
BVH	(80°-90°)	8.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3
2.5°	1585.2	1557.4	1589.2	1585.2	1557.4	1539.5	1483.9	1466.0	1400.5	1352.8	1311.1
5°	1911.0	1883.2	1911.0	1903.1	1863.3	1819.6	1728.3	1668.7	1551.5	1448.2	1354.8
7.5°	2181.2	2181.2	2193.1	2195.1	2147.4	2079.9	1966.6	1877.3	1712.4	1553.5	1404.5
10°	2473.2	2475.2	2501.0	2483.1	2419.6	2328.2	2185.2	2071.9	1873.3	1664.7	1452.1
12.5°	2785.1	2787.1	2795.0	2787.1	2711.6	2594.4	2421.6	2272.6	2044.1	1791.8	1517.7
15°	3097.0	3099.0	3108.9	3095.0	3011.6	2874.5	2677.8	2495.1	2224.9	1934.9	1597.2
17.5°	3389.0	3393.0	3400.9	3383.0	3295.6	3132.7	2932.1	2711.6	2417.6	2087.8	1686.5
20°	3651.2	3655.2	3661.1	3637.3	3549.9	3387.0	3170.5	2940.0	2614.3	2244.8	1783.9
22.5°	3915.4	3919.4	3929.3	3897.5	3800.2	3613.5	3400.9	3162.5	2822.8	2417.6	1897.1
25°	4253.1	4257.1	4265.0	4219.4	4086.3	3867.7	3643.3	3398.9	3049.3	2612.3	2036.2
27.5°	4747.8	4743.8	4743.8	4660.4	4431.9	4147.8	3887.6	3639.3	3293.6	2820.8	2189.1
30°	5359.6	5349.7	5343.7	5230.5	4904.7	4463.7	4137.9	3863.8	3528.0	3041.4	2354.0
32.5°	5907.9	5907.9	5896.0	5776.8	5431.1	4888.8	4404.1	4082.3	3754.5	3263.8	2524.9
35°	6231.7	6245.6	6239.6	6150.2	5898.0	5345.7	4763.7	4344.5	3992.9	3496.3	2729.5
37.5°	6275.4	6303.2	6309.2	6255.5	6122.4	5719.2	5162.9	4628.6	4255.1	3746.6	2928.1
40°	6098.6	6158.2	6158.2	6150.2	6102.6	5896.0	5498.7	4958.3	4525.3	4006.8	3128.8
42.5°	5826.4	5888.0	5880.1	5909.9	5898.0	5854.3	5687.4	5266.2	4795.4	4275.0	3311.5
45°	5470.9	5534.4	5518.5	5572.2	5596.0	5643.7	5667.5	5480.8	5061.6	4567.0	3516.1
47.5°	4900.7	5008.0	5031.8	5127.2	5226.5	5375.5	5488.7	5558.3	5309.9	4880.9	3738.6
50°	4058.4	4209.4	4257.1	4457.7	4729.9	5037.8	5220.6	5462.9	5484.8	5202.7	3979.0
52.5°	2906.3	3081.1	3154.6	3484.3	4044.5	4580.9	4910.7	5252.3	5552.3	5510.6	4239.2
55°	1879.2	2028.2	2099.7	2409.6	3154.6	3996.9	4545.1	4980.2	5514.6	5792.7	4537.2
57.5°	1158.1	1243.6	1291.2	1557.4	2242.8	3247.9	4066.4	4729.9	5399.3	6037.0	4847.1
60°	780.7	830.4	854.2	979.4	1523.7	2427.5	3408.9	4467.7	5248.4	6201.9	5129.2
62.5°	518.5	534.4	558.2	635.7	1005.2	1704.4	2618.2	3998.9	5135.1	6211.8	5337.8
65°	401.3	409.2	419.2	452.9	619.8	1191.9	1841.5	3240.0	4966.3	6001.3	5403.3
67.5°	315.9	323.8	335.7	353.6	449.0	808.5	1253.5	2373.9	4620.6	5671.5	5296.0
70°	248.3	254.3	262.2	278.1	349.6	586.0	828.4	1577.3	3923.4	5357.6	4958.3
72.5°	196.7	202.6	210.6	226.5	284.1	429.1	568.1	983.3	3025.5	4974.2	4308.7
75°	154.9	158.9	164.9	180.8	228.4	333.7	385.4	588.0	2056.0	4273.0	3357.2
77.5°	77.5	95.4	109.3	125.2	166.9	230.4	256.3	325.8	868.1	2193.1	1601.1
80°	45.7	55.6	59.6	69.5	109.3	139.1	139.1	131.1	274.1	842.3	653.6
82.5°	25.8	35.8	37.7	39.7	65.6	79.5	63.6	47.7	55.6	282.1	190.7
85°	7.9	11.9	13.9	15.9	21.9	23.8	21.9	19.9	15.9	27.8	17.9
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	4.0	4.0	6.0	6.0	6.0
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°	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3
2.5°	1287.3	1261.4	1211.8	1166.1	1122.4	1090.6	1060.8	1033.0	1013.1	997.2	995.2
5°	1305.1	1253.5	1158.1	1068.7	987.3	919.8	862.1	816.5	782.7	758.8	756.9
7.5°	1329.0	1249.5	1104.5	971.4	850.2	752.9	669.5	607.9	564.2	546.3	532.4
10°	1348.8	1245.5	1050.9	874.1	715.1	592.0	492.7	431.1	399.3	387.4	381.4
12.5°	1382.6	1249.5	1005.2	784.7	597.9	452.9	377.4	343.7	329.8	319.8	317.8
15°	1432.3	1267.4	961.5	697.3	478.7	365.5	321.8	300.0	286.1	284.1	282.1
17.5°	1481.9	1283.3	921.7	607.9	397.3	317.8	288.0	270.2	260.2	258.2	258.2
20°	1539.5	1303.2	878.0	522.5	339.7	286.1	262.2	248.3	236.4	234.4	234.4
22.5°	1607.1	1331.0	836.3	447.0	302.0	262.2	242.4	226.5	216.5	214.5	214.5
25°	1698.5	1372.7	802.6	391.3	276.1	242.4	224.5	210.6	202.6	198.7	198.7
27.5°	1799.8	1430.3	778.7	357.6	258.2	226.5	208.6	196.7	188.7	184.7	184.7
30°	1913.0	1493.9	762.8	343.7	248.3	212.6	196.7	184.7	174.8	172.8	172.8
32.5°	2038.2	1567.4	752.9	345.7	246.3	202.6	184.7	172.8	164.9	160.9	160.9
35°	2177.2	1648.8	746.9	357.6	250.3	194.7	174.8	162.9	154.9	151.0	151.0
37.5°	2332.2	1744.2	746.9	369.5	260.2	192.7	164.9	153.0	147.0	143.0	143.0
40°	2477.2	1845.5	754.9	383.4	270.2	192.7	156.9	147.0	139.1	135.1	135.1
42.5°	2590.4	1903.1	760.8	397.3	276.1	190.7	149.0	139.1	133.1	129.1	129.1
45°	2719.5	1964.7	748.9	403.3	276.1	186.7	143.0	133.1	127.1	123.2	123.2
47.5°	2862.6	2040.1	746.9	407.2	270.2	178.8	137.1	127.1	123.2	119.2	119.2
50°	3007.6	2123.6	750.9	405.2	262.2	166.9	129.1	123.2	117.2	113.2	113.2
52.5°	3172.5	2211.0	758.8	401.3	244.3	153.0	123.2	117.2	111.2	107.3	105.3
55°	3355.2	2306.3	774.7	393.3	220.5	139.1	117.2	111.2	103.3	99.3	97.3
57.5°	3565.8	2423.5	792.6	377.4	194.7	127.1	111.2	103.3	91.4	85.4	83.4
60°	3766.4	2556.6	812.5	339.7	168.9	115.2	105.3	93.4	81.4	77.5	75.5
62.5°	3955.1	2687.8	822.4	272.2	143.0	105.3	99.3	85.4	73.5	69.5	67.5
65°	4076.3	2830.8	800.6	184.7	117.2	97.3	91.4	79.5	67.5	61.6	61.6
67.5°	4084.3	2898.3	725.1	121.2	95.4	87.4	83.4	71.5	59.6	55.6	53.6
70°	3883.6	2797.0	554.2	95.4	79.5	75.5	75.5	63.6	51.6	47.7	45.7
72.5°	3422.8	2477.2	353.6	77.5	67.5	63.6	63.6	53.6	45.7	39.7	37.7
75°	2701.7	1911.0	188.7	63.6	55.6	53.6	49.7	43.7	37.7	33.8	31.8
77.5°	1241.6	842.3	87.4	45.7	41.7	41.7	37.7	31.8	29.8	25.8	25.8
80°	490.7	286.1	43.7	29.8	27.8	27.8	27.8	21.9	21.9	17.9	15.9
82.5°	135.1	59.6	21.9	17.9	17.9	17.9	15.9	13.9	13.9	11.9	11.9
85°	13.9	9.9	9.9	9.9	9.9	7.9	7.9	6.0	4.0	4.0	4.0
87.5°	6.0	6.0	6.0	6.0	6.0	4.0	2.0	0.0	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)