

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: P1211453

Luminaire Tested: **ARCH4-280-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-280-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38708 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 279.7
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



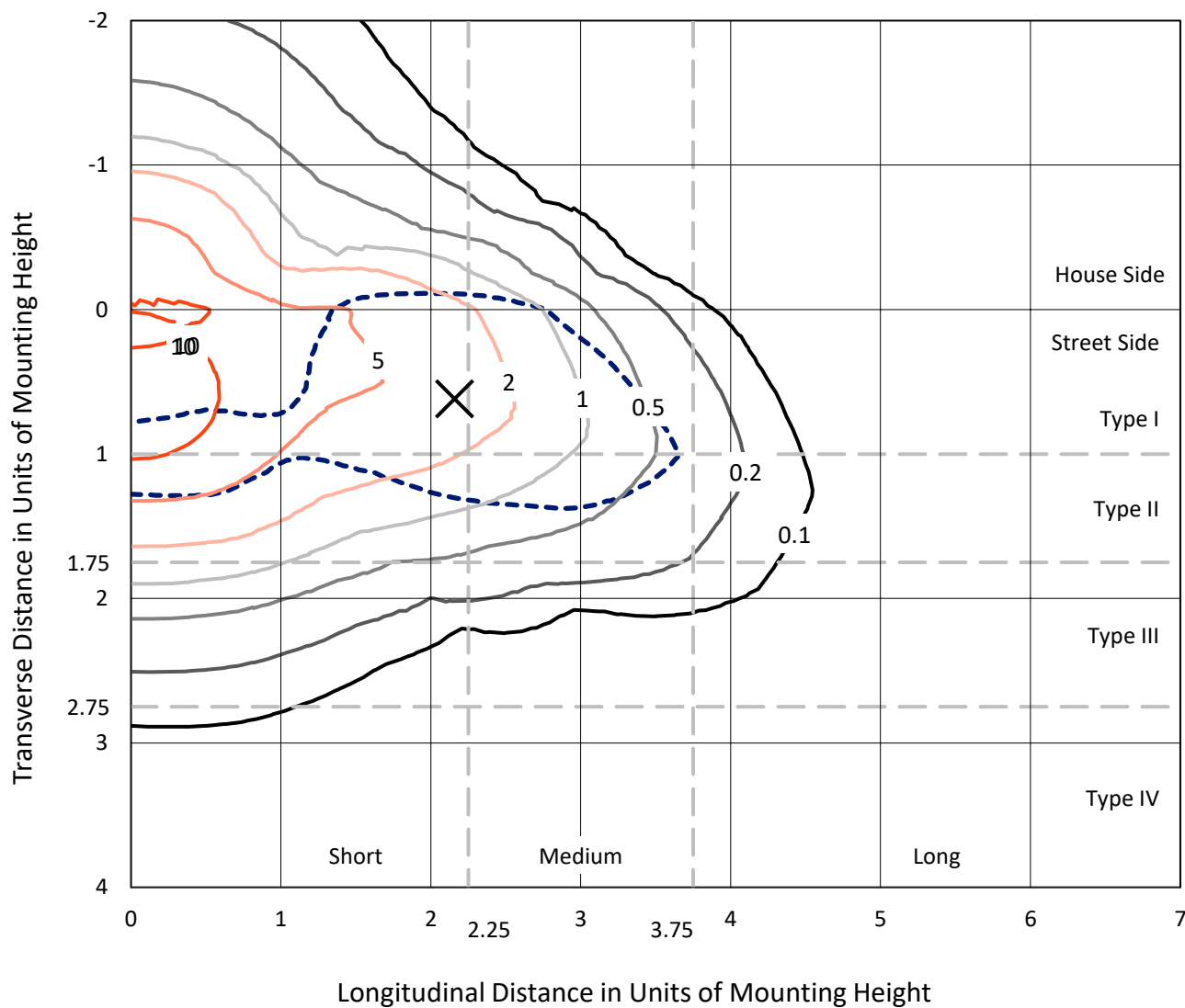
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

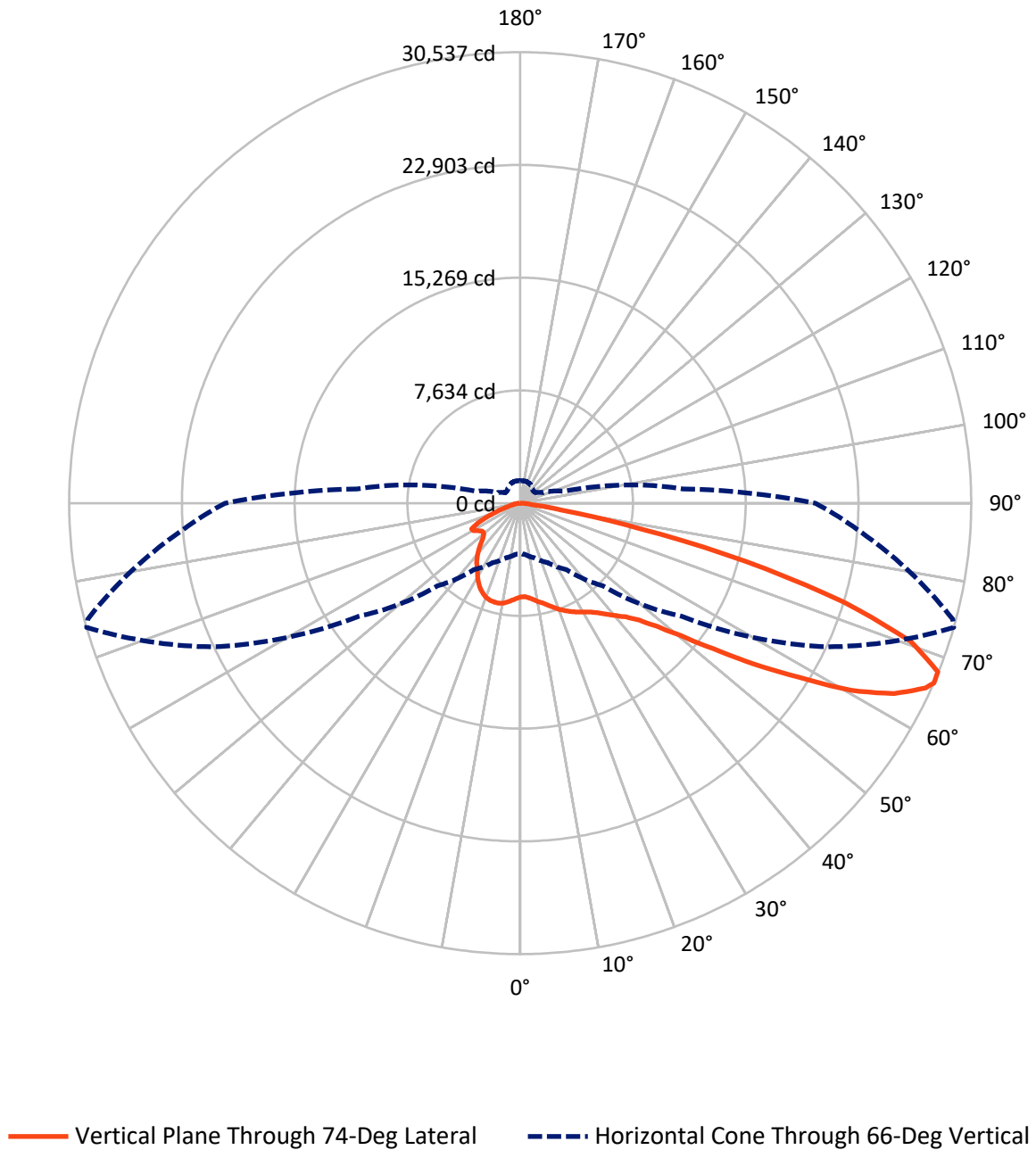
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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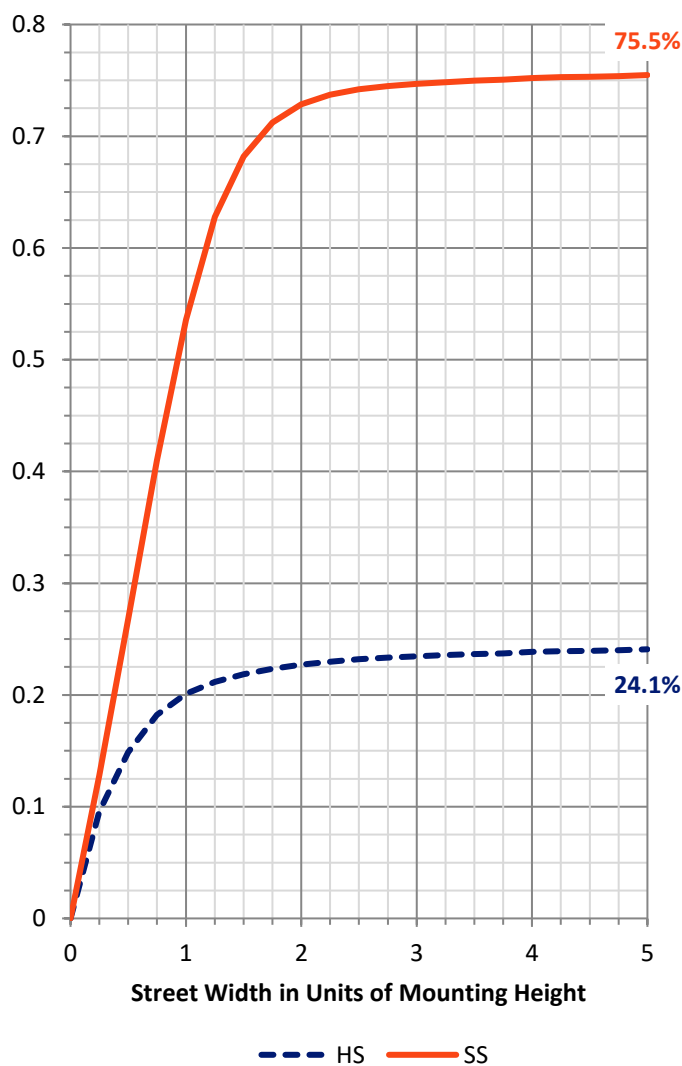
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9426.4	0.0	9426.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	29281.5	0.0	29281.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	38708.0	0.0	38708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.3	1.6
10°-20°	1861.4	4.8
20°-30°	3493.0	9.0
30°-40°	5373.1	13.9
40°-50°	7227.3	18.7
50°-60°	8547.1	22.1
60°-70°	7906.5	20.4
70°-80°	3326.2	8.6
80°-90°	368.1	1.0
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°	38708.0	100.0
0°-180°	38708.0	100.0

Coefficient of Utilization



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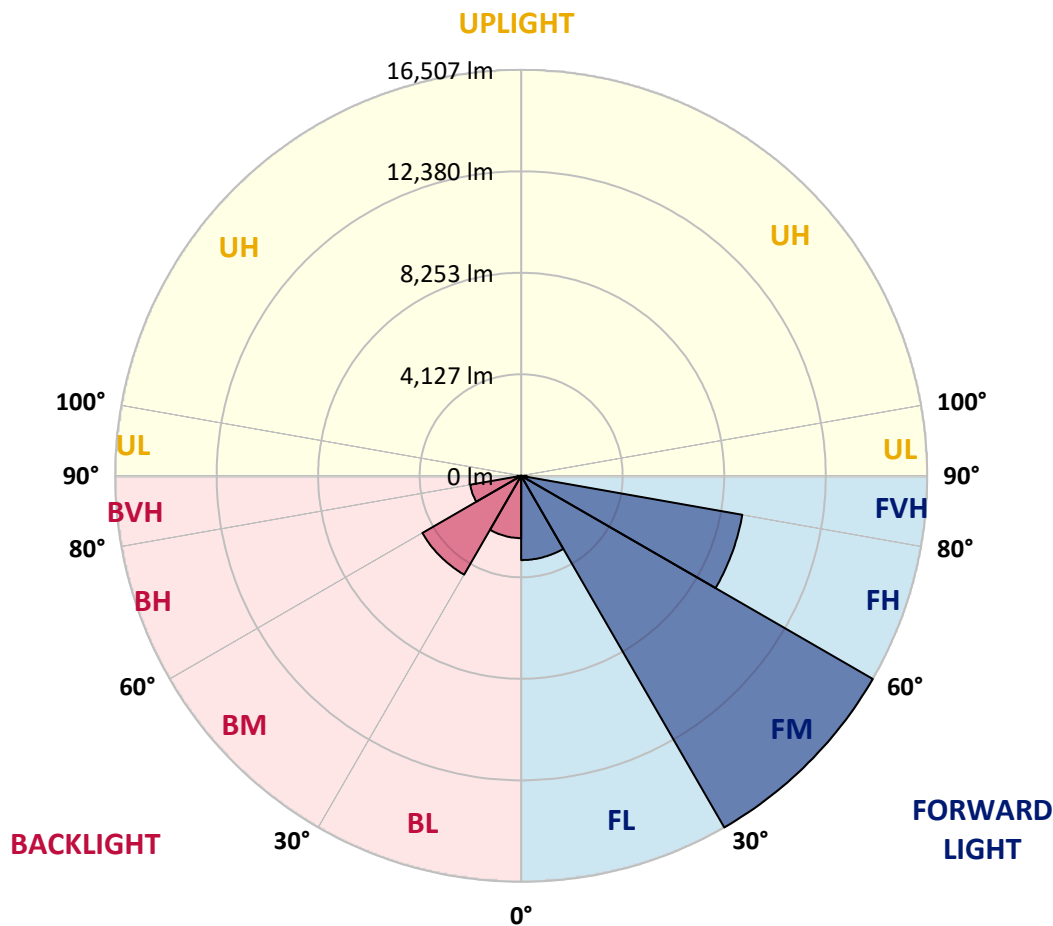
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3426.1	8.9			
FM	(30°-60°)	16506.8	42.6			
FH	(60°-80°)	9128.4	23.6			G4/12000
FVH	(80°-90°)	220.2	0.6			G2/225
BL	(0°-30°)	2533.6	6.5	B4/5000		
BM	(30°-60°)	4640.7	12.0	B3/5000		
BH	(60°-80°)	2104.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	147.9	0.4			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5
2.5°	6325.6	6315.6	6335.6	6365.5	6380.4	6355.5	6345.5	6340.5	6340.5	6325.6	6350.5
5°	6026.8	6021.8	6066.6	6121.4	6226.0	6300.7	6400.3	6460.1	6440.2	6410.3	6430.2
7.5°	5638.3	5628.3	5683.1	5787.7	5932.1	6096.5	6340.5	6529.8	6604.5	6594.6	6589.6
10°	5787.7	5777.7	5772.7	5742.9	5792.7	5952.0	6206.1	6539.8	6793.8	6798.8	6803.8
12.5°	6305.7	6330.6	6305.7	6211.0	6101.5	6041.7	6191.1	6564.7	6953.2	6983.1	7107.6
15°	7013.0	6988.1	6938.2	6828.7	6659.3	6480.0	6370.4	6679.2	7182.3	7207.2	7481.1
17.5°	7635.6	7655.5	7625.6	7521.0	7321.8	7087.7	6754.0	6878.5	7426.4	7496.1	7879.6
20°	8312.9	8392.6	8352.8	8223.3	8058.9	7710.3	7291.9	7167.4	7695.3	7745.1	8293.0
22.5°	9094.9	9179.6	9104.9	8980.4	8845.9	8417.5	7879.6	7521.0	7919.5	8024.1	8691.5
25°	10031.3	10111.0	10041.3	9847.0	9677.7	9154.7	8512.2	7919.5	8138.6	8253.2	9015.2
27.5°	10773.5	10833.2	10898.0	10783.4	10524.4	9981.5	9169.6	8332.9	8357.8	8477.3	9314.1
30°	11435.9	11585.3	11640.1	11655.1	11435.9	10828.2	9842.0	8761.2	8547.0	8671.6	9612.9
32.5°	12342.4	12566.5	12476.9	12566.5	12437.0	11625.2	10539.4	9204.5	8791.1	8905.7	9896.8
35°	13667.3	13846.6	13612.5	13542.8	13333.6	12432.1	11211.8	9662.7	9114.8	9239.4	10165.8
37.5°	15091.8	15296.0	14957.3	14678.4	14279.9	13229.0	11789.5	10265.4	9563.1	9662.7	10414.8
40°	16337.0	16506.3	16212.5	15843.9	15176.5	13931.3	12287.6	10688.8	10011.4	10135.9	10703.7
42.5°	17487.6	17597.1	17268.4	16914.8	16023.2	14563.8	12825.5	11137.0	10534.4	10653.9	10937.8
45°	18653.1	18737.7	18279.5	17776.4	16730.5	15141.6	13418.3	11764.6	11301.4	11460.8	11316.4
47.5°	18862.3	18887.2	18807.5	18468.8	17288.3	15694.5	14150.4	12606.4	12471.9	12646.2	11968.8
50°	17412.8	17637.0	18130.1	18463.8	17512.5	16157.7	14882.6	13811.7	14085.7	14309.8	13323.6
52.5°	14598.7	14812.9	15953.5	17218.6	16974.5	16262.3	15669.6	15340.8	16361.9	16630.9	15166.5
55°	11630.1	11819.4	13024.8	14847.7	15236.2	15784.1	16511.3	17293.3	19265.7	19445.0	17188.7
57.5°	9578.1	9682.7	10544.3	12297.6	12920.2	14255.0	16964.6	19614.4	22219.3	22493.3	18946.9
60°	7854.7	7969.3	8611.8	10056.2	10883.0	12068.5	16606.0	21905.5	25745.7	25745.7	21203.2
62.5°	5912.2	6011.8	6609.5	7740.1	9129.8	10215.6	15460.4	23424.7	28405.5	28285.9	22836.9
65°	4059.3	4139.0	4572.4	5324.5	6574.6	8706.4	13896.4	23444.6	30168.7	30009.3	23534.2
66°	3406.9	3476.6	3845.2	4452.8	5503.8	7899.5	13343.5	23021.2	30537.2	30313.1	23240.4
67.5°	2689.6	2739.4	2983.5	3342.1	4034.4	6395.3	12471.9	21820.8	30502.4	30367.9	22493.3
70°	1922.6	1957.5	2136.8	2211.5	2385.8	3700.7	9906.8	19111.3	28056.8	28096.6	19554.6
72.5°	1489.3	1544.0	1653.6	1668.6	1628.7	1967.4	6011.8	15943.5	22951.5	22936.5	14514.0
75°	1200.4	1230.3	1285.0	1314.9	1305.0	1270.1	2545.2	11894.1	15799.1	15983.4	8128.7
77.5°	946.4	941.4	991.2	1031.0	1060.9	996.2	1165.5	6973.1	8283.1	8049.0	3053.2
80°	697.3	697.3	767.0	782.0	826.8	836.8	777.0	2689.6	2844.0	2585.0	791.9
82.5°	458.2	458.2	532.9	542.9	587.7	652.5	562.8	806.9	787.0	747.1	358.6
85°	249.0	239.1	264.0	298.8	323.8	383.5	338.7	403.4	413.4	408.4	239.1
87.5°	49.8	44.8	69.7	79.7	89.7	119.5	109.6	164.4	229.1	224.1	104.6
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°	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5	6345.5
2.5°	6385.4	6380.4	6435.2	6499.9	6574.6	6619.5	6639.4	6674.3	6649.4	6659.3	6689.2
5°	6480.0	6495.0	6574.6	6659.3	6694.2	6669.3	6614.5	6594.6	6549.7	6539.8	6529.8
7.5°	6619.5	6644.4	6724.1	6744.0	6639.4	6465.1	6340.5	6270.8	6196.1	6176.2	6166.2
10°	6848.6	6863.5	6883.5	6679.2	6420.2	6186.1	6031.7	5967.0	5917.2	5877.3	5887.3
12.5°	7137.5	7127.5	6973.1	6549.7	6181.2	5942.1	5837.5	5797.6	5762.8	5737.9	5732.9
15°	7501.1	7431.3	6988.1	6370.4	5957.0	5757.8	5683.1	5668.1	5628.3	5628.3	5623.3
17.5°	7869.7	7690.3	6978.1	6181.2	5742.9	5633.3	5588.4	5578.5	5568.5	5563.5	5578.5
20°	8238.2	7919.5	6898.4	5947.1	5593.4	5528.7	5518.7	5523.7	5513.7	5528.7	5518.7
22.5°	8562.0	8068.9	6749.0	5698.0	5488.8	5483.9	5458.9	5468.9	5503.8	5508.8	5523.7
25°	8811.0	8123.7	6529.8	5468.9	5414.1	5404.2	5434.0	5473.9	5503.8	5508.8	5533.7
27.5°	9015.2	8093.8	6255.9	5289.6	5284.6	5339.4	5429.1	5444.0	5449.0	5449.0	5429.1
30°	9169.6	8029.0	5907.2	5090.4	5115.3	5249.8	5334.4	5334.4	5294.6	5284.6	5314.5
32.5°	9204.5	7944.4	5528.7	4886.2	4926.0	5085.4	5190.0	5155.1	5110.3	5110.3	5130.2
35°	9234.4	7829.8	5224.9	4607.2	4667.0	4856.3	4955.9	4886.2	4836.3	4821.4	4816.4
37.5°	9224.4	7785.0	4950.9	4253.6	4333.3	4517.6	4582.3	4517.6	4442.9	4408.0	4452.8
40°	9234.4	7755.1	4607.2	3865.1	3944.8	4054.4	4139.0	4089.2	4019.5	3929.8	3974.7
42.5°	9294.2	7794.9	4228.7	3486.6	3486.6	3546.3	3690.8	3655.9	3486.6	3451.7	3491.5
45°	9612.9	8009.1	3850.2	3108.0	3053.2	3093.1	3242.5	3093.1	2988.5	2988.5	3023.3
47.5°	10384.9	8407.6	3516.4	2774.3	2644.8	2724.5	2764.3	2624.9	2545.2	2525.3	2560.1
50°	11958.9	9204.5	3317.2	2500.4	2341.0	2400.7	2375.8	2370.9	2291.2	2301.1	2321.0
52.5°	14349.7	10758.5	3257.4	2365.9	2166.6	2181.6	2156.7	2166.6	2151.7	2201.5	2216.5
55°	16954.6	12397.2	3332.1	2385.8	2047.1	1942.5	1952.5	2002.3	2062.0	2141.7	2156.7
57.5°	18902.1	13219.0	3526.4	2520.3	1897.7	1738.3	1763.2	1857.8	1972.4	2037.1	2072.0
60°	20351.5	13119.4	3810.3	2555.1	1718.4	1554.0	1598.8	1738.3	1837.9	1892.7	1927.6
62.5°	20824.7	12496.8	3880.0	2301.1	1484.3	1379.7	1489.3	1633.7	1678.5	1738.3	1763.2
65°	20436.2	11615.2	3372.0	1867.8	1305.0	1250.2	1409.6	1519.1	1578.9	1608.8	1613.8
66°	19978.0	11087.2	3098.1	1698.4	1240.2	1210.3	1379.7	1469.3	1529.1	1524.1	1529.1
67.5°	18971.8	9981.5	2654.8	1459.4	1145.6	1150.6	1329.9	1389.6	1409.6	1394.6	1394.6
70°	15550.0	7027.9	1902.7	1105.7	1006.1	1075.9	1195.4	1210.3	1255.2	1235.2	1235.2
72.5°	9588.0	3451.7	1275.1	846.7	896.5	1006.1	1001.1	1050.9	1155.5	1185.4	1205.4
75°	4711.8	1399.6	841.8	717.2	801.9	841.8	831.8	956.3	1105.7	1235.2	1280.1
77.5°	1788.1	697.3	587.7	627.6	647.5	632.6	662.4	866.7	1105.7	1339.8	1384.7
80°	552.9	483.1	463.2	518.0	488.1	463.2	498.1	717.2	936.4	1016.1	1016.1
82.5°	333.7	378.5	358.6	353.6	328.7	333.7	358.6	513.0	722.2	757.1	757.1
85°	234.1	249.0	204.2	194.3	189.3	184.3	184.3	298.8	428.3	423.4	438.3
87.5°	89.7	99.6	74.7	74.7	69.7	49.8	39.8	49.8	49.8	34.9	24.9
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)