

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: P1211514

Luminaire Tested: **ARCH4-300-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-300-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27755 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 299.2
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

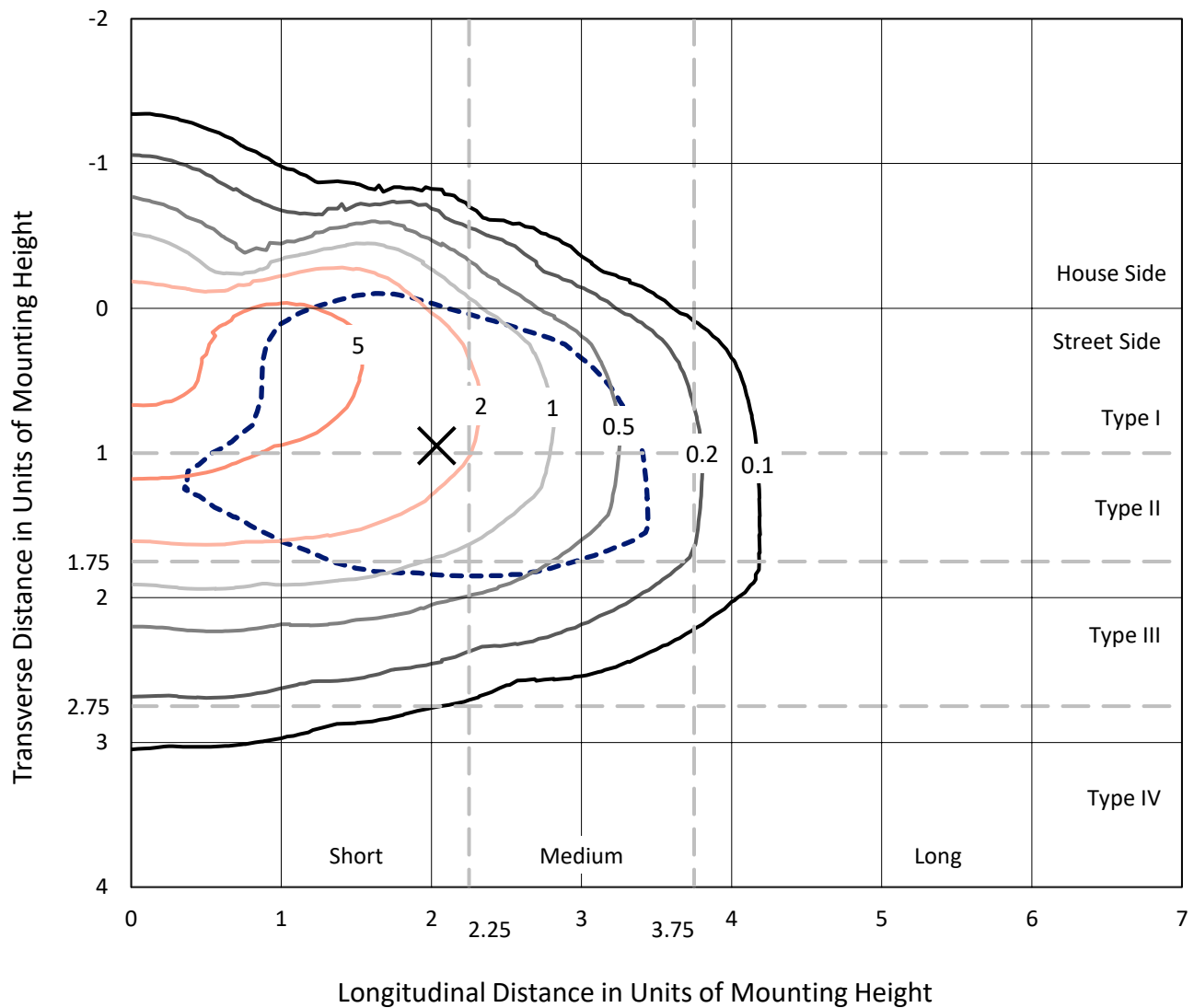


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Iso-Footcandle Lines of Horizontal Illumination

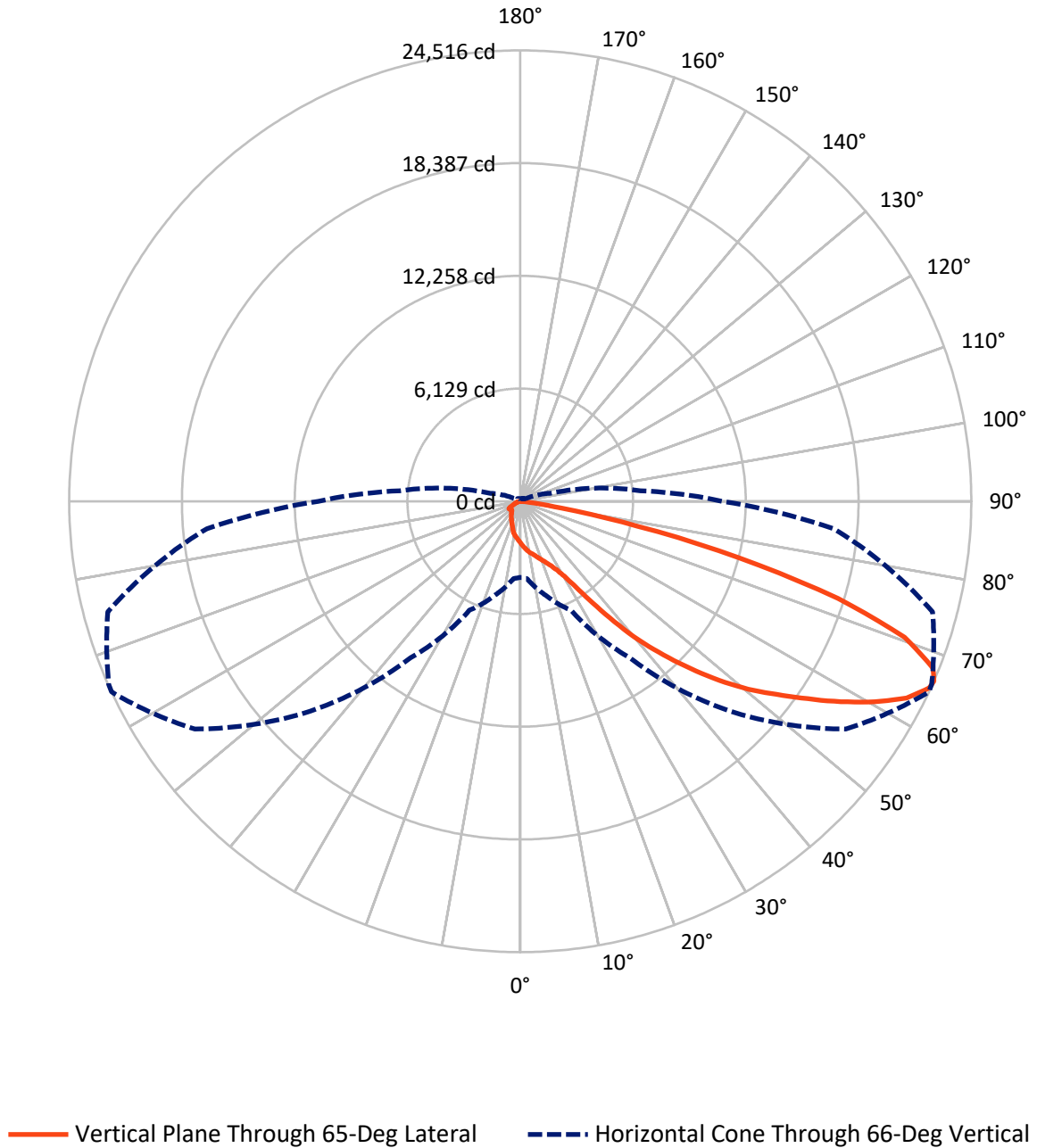
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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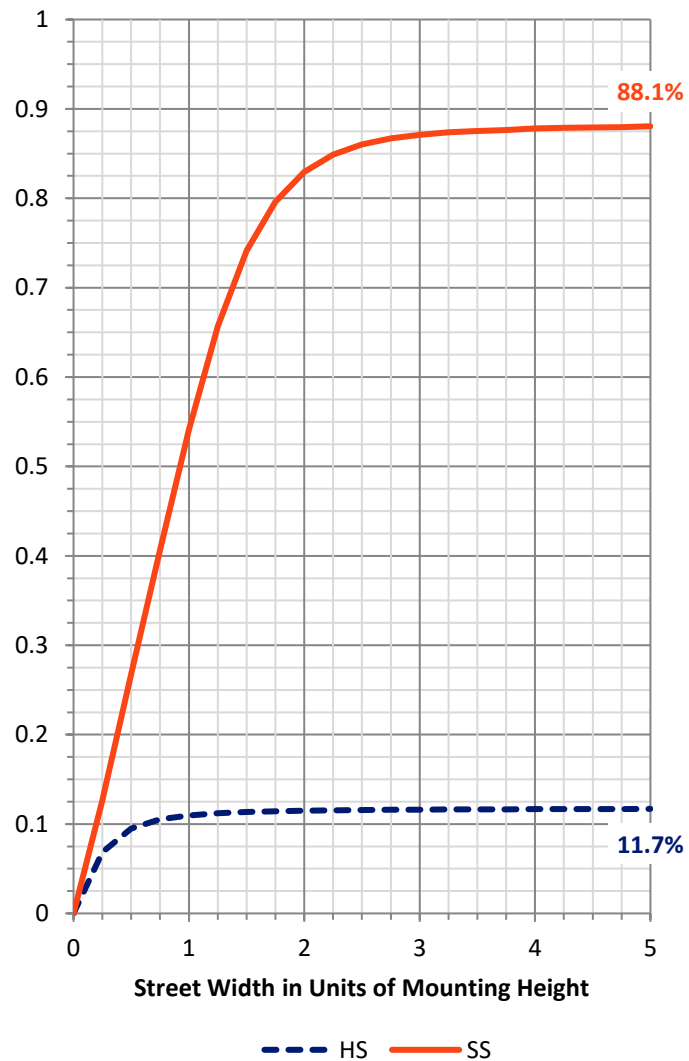
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3275.7	0.0	3275.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	24479.3	0.0	24479.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	27755.0	0.0	27755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	0.8
10°-20°	634.6	2.3
20°-30°	1161.5	4.2
30°-40°	2360.2	8.5
40°-50°	4984.0	18.0
50°-60°	7662.1	27.6
60°-70°	7712.4	27.8
70°-80°	2881.8	10.4
80°-90°	144.0	0.5
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°	27755.0	100.0
0°-180°	27755.0	100.0

Coefficient of Utilization



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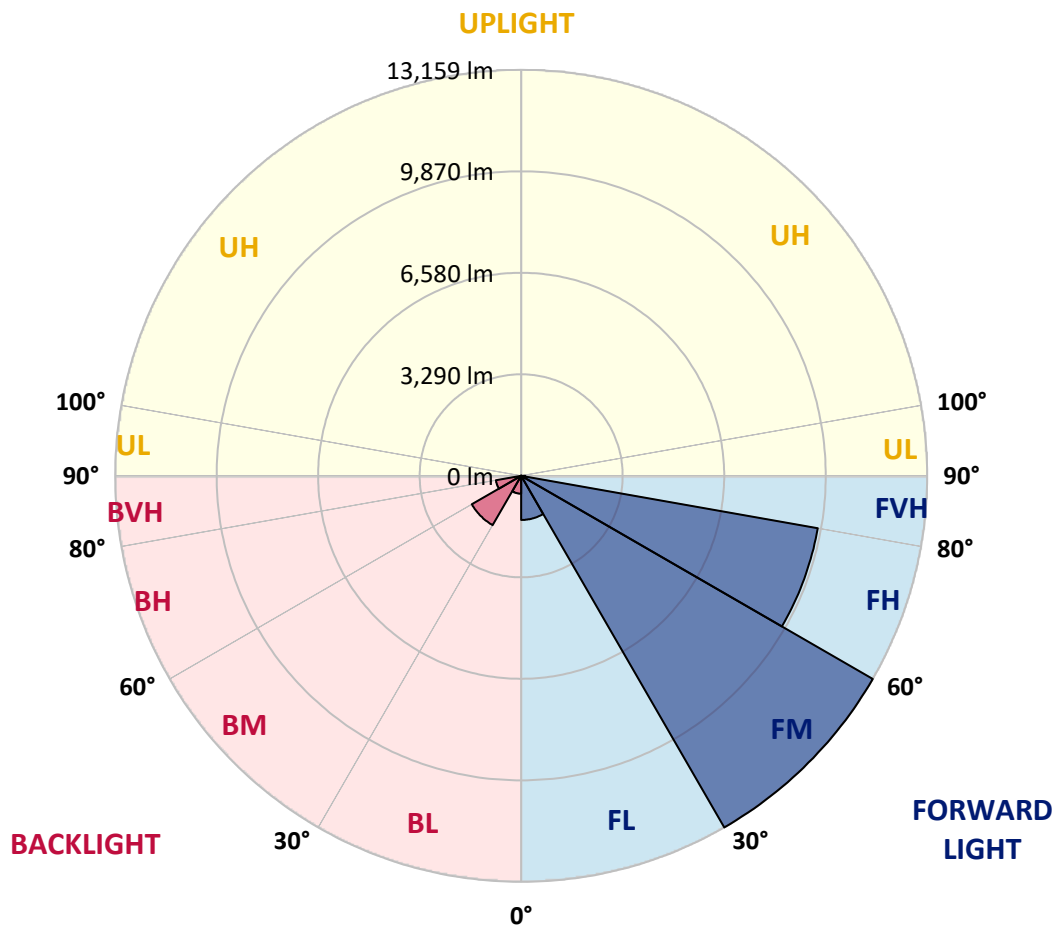
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1430.7	5.2			
FM	(30°-60°)	13159.5	47.4			
FH	(60°-80°)	9762.1	35.2			G4/12000
FVH	(80°-90°)	127.0	0.5			G2/225
BL	(0°-30°)	579.8	2.1	B2/1000		
BM	(30°-60°)	1846.8	6.7	B2/2500		
BH	(60°-80°)	832.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	16.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2578.5	2583.6	2573.5	2553.4	2533.2	2508.0	2467.7	2402.3	2392.2	2346.9	2296.5
5°	2754.8	2764.9	2749.8	2744.7	2734.7	2699.4	2644.0	2548.3	2538.2	2447.6	2331.8
7.5°	2815.2	2830.3	2820.3	2820.3	2820.3	2805.2	2780.0	2694.4	2679.3	2563.4	2387.2
10°	2860.6	2870.6	2865.6	2885.7	2900.8	2890.8	2875.7	2825.3	2810.2	2694.4	2462.7
12.5°	2931.1	2936.1	2941.1	2951.2	2976.4	2986.5	2981.4	2936.1	2926.0	2845.5	2558.4
15°	2996.5	2996.5	3001.6	3046.9	3082.2	3102.3	3107.3	3072.1	3062.0	2996.5	2679.3
17.5°	3057.0	3062.0	3077.1	3127.5	3187.9	3228.2	3253.4	3238.3	3223.2	3172.8	2820.3
20°	3147.6	3157.7	3172.8	3243.3	3303.7	3369.2	3419.6	3414.5	3409.5	3374.3	2986.5
22.5°	3303.7	3313.8	3339.0	3404.5	3464.9	3545.5	3631.1	3626.1	3611.0	3585.8	3182.9
25°	3540.4	3540.4	3555.6	3611.0	3686.5	3782.2	3862.8	3877.9	3862.8	3847.7	3429.6
27.5°	3837.6	3842.6	3842.6	3903.1	3973.6	4094.4	4195.2	4210.3	4210.3	4195.2	3762.0
30°	4250.5	4235.4	4225.4	4275.7	4351.3	4527.5	4703.8	4734.0	4718.9	4744.1	4230.4
32.5°	4960.7	4935.5	4849.9	4859.9	4905.3	5147.0	5444.1	5549.9	5544.9	5590.2	4985.8
35°	5942.7	5892.3	5766.4	5660.7	5655.6	5917.5	6370.8	6768.6	6763.6	6919.7	6134.1
37.5°	7050.7	7116.1	6879.4	6698.1	6642.7	6849.2	7433.4	8294.6	8339.9	8611.9	7639.9
40°	8531.3	8571.6	8269.4	8012.6	7750.7	7826.2	8596.8	9936.4	10017.0	10319.2	9145.7
42.5°	9820.6	9860.9	9684.6	9372.4	9040.0	8899.0	9770.2	11427.1	11492.6	11910.6	10696.9
45°	10696.9	10727.1	10787.5	10817.7	10440.0	10147.9	11205.5	12958.1	13038.7	13522.2	12212.8
47.5°	11381.8	11407.0	11527.9	11830.0	11754.5	11522.8	12666.0	14549.6	14569.7	15108.6	13688.4
50°	11699.1	11759.5	12056.7	12520.0	12852.4	12917.8	14252.4	16055.4	16110.8	16624.5	15083.4
52.5°	11346.5	11366.7	12117.1	12988.3	13658.2	14322.9	15843.9	17450.4	17611.6	17994.3	16337.4
55°	10158.0	10304.1	11442.2	12973.2	14292.7	15657.5	17546.1	18956.2	19102.3	19344.0	17440.3
57.5°	8778.1	8939.2	10324.2	12323.6	14564.7	16891.4	19122.4	20557.7	20658.5	20723.9	18452.6
60°	7584.5	7735.6	9160.8	11079.6	14292.7	17762.7	20588.0	22149.2	22234.8	22058.5	18961.3
62.5°	6119.0	6270.1	7705.4	9432.8	13225.0	17938.9	21675.8	23564.4	23599.6	23121.2	18649.0
65°	4613.2	4713.9	5912.5	7393.1	11356.6	17002.2	21922.6	24445.7	24410.4	23428.4	17712.3
66°	4134.7	4220.3	5277.9	6537.0	10384.6	16146.0	21590.2	24516.2	24480.9	23201.8	17097.9
67.5°	3565.6	3590.8	4462.1	5348.4	8687.4	14328.0	20577.9	24193.9	24224.1	22577.3	15974.8
70°	2785.0	2780.0	3283.6	3721.7	5932.6	10193.3	17163.4	22164.3	22310.3	20220.3	13622.9
72.5°	1782.8	1722.4	2014.5	2276.4	3454.8	5917.5	12514.9	18064.8	18311.6	15884.2	10147.9
75°	1062.6	1002.2	1072.7	1138.2	1656.9	2845.5	7357.9	12293.4	12530.1	10183.2	6038.4
77.5°	795.7	770.5	775.6	720.2	735.3	1067.7	3359.1	6496.7	6667.9	4170.0	2291.5
80°	609.4	543.9	508.7	533.8	483.5	423.0	1249.0	2236.1	2341.8	987.1	478.4
82.5°	407.9	352.5	327.4	357.6	307.2	236.7	302.2	433.1	423.0	266.9	186.3
85°	211.5	181.3	181.3	181.3	156.1	115.8	130.9	176.3	176.3	141.0	110.8
87.5°	60.4	55.4	65.5	60.4	45.3	45.3	50.4	60.4	60.4	55.4	50.4
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°	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2256.2	2236.1	2180.7	2140.4	2100.1	2064.8	2024.6	2014.5	1994.3	1999.4	1989.3
5°	2271.3	2215.9	2120.2	2029.6	1959.1	1898.6	1823.1	1792.9	1752.6	1737.5	1727.4
7.5°	2291.5	2210.9	2069.9	1944.0	1823.1	1702.2	1581.4	1510.9	1465.5	1445.4	1430.3
10°	2336.8	2231.0	2044.7	1848.3	1641.8	1470.6	1349.7	1299.3	1269.1	1264.1	1259.0
12.5°	2397.2	2261.3	2019.5	1727.4	1455.5	1294.3	1218.8	1203.7	1198.6	1198.6	1193.6
15°	2487.9	2311.6	1979.2	1586.4	1309.4	1198.6	1163.4	1138.2	1128.1	1128.1	1128.1
17.5°	2578.5	2372.0	1918.8	1440.4	1208.7	1138.2	1102.9	1087.8	1077.7	1082.8	1077.7
20°	2694.4	2442.6	1838.2	1314.4	1143.2	1087.8	1052.6	1037.5	1032.4	1032.4	1032.4
22.5°	2825.3	2523.1	1737.5	1218.8	1087.8	1037.5	1002.2	987.1	977.0	982.1	982.1
25°	3001.6	2623.9	1631.7	1123.1	1032.4	987.1	946.8	926.7	926.7	931.7	936.7
27.5°	3228.2	2744.7	1526.0	1062.6	982.1	936.7	891.4	871.3	876.3	886.4	886.4
30°	3560.6	2910.9	1420.2	997.2	926.7	876.3	836.0	815.9	825.9	846.1	846.1
32.5°	4034.0	3182.9	1329.6	921.6	846.1	790.7	750.4	735.3	760.5	800.8	800.8
35°	4880.1	3681.5	1274.2	846.1	760.5	695.0	644.6	629.5	664.8	715.1	715.1
37.5°	6013.2	4482.2	1294.3	780.6	690.0	614.4	559.0	538.9	564.1	609.4	624.5
40°	7277.3	5449.2	1470.6	725.2	624.5	548.9	493.5	473.4	488.5	508.7	513.7
42.5°	8541.4	6476.5	1803.0	684.9	574.1	493.5	443.2	428.1	438.1	443.2	448.2
45°	9800.4	7493.9	2221.0	659.7	528.8	448.2	397.9	397.9	402.9	402.9	402.9
47.5°	10994.0	8486.0	2659.1	654.7	488.5	402.9	362.6	367.6	367.6	372.7	372.7
50°	12122.1	9372.4	3102.3	669.8	453.3	362.6	332.4	332.4	332.4	337.4	332.4
52.5°	13063.9	10147.9	3565.6	695.0	418.0	332.4	302.2	302.2	302.2	307.2	302.2
55°	13955.3	10853.0	4039.0	730.2	387.8	307.2	277.0	266.9	266.9	272.0	266.9
57.5°	14680.5	11321.4	4487.2	735.3	362.6	282.0	256.8	241.7	241.7	241.7	241.7
60°	14710.7	11049.4	4618.2	644.6	332.4	256.8	231.7	211.5	216.6	216.6	216.6
62.5°	13748.8	9619.1	3711.7	483.5	297.1	231.7	211.5	191.4	191.4	191.4	191.4
65°	11860.2	7483.8	2175.6	382.8	256.8	206.5	186.3	171.2	171.2	171.2	166.2
66°	10973.9	6562.2	1667.0	347.5	241.7	201.4	181.3	166.2	161.2	156.1	156.1
67.5°	9528.5	5187.3	1042.5	307.2	221.6	186.3	166.2	151.1	146.0	141.0	141.0
70°	7176.6	3293.7	508.7	236.7	191.4	161.2	146.0	130.9	125.9	120.9	115.8
72.5°	5036.2	1928.9	266.9	181.3	156.1	141.0	125.9	110.8	105.8	100.7	100.7
75°	2845.5	931.7	176.3	130.9	125.9	115.8	105.8	90.7	85.6	85.6	85.6
77.5°	1077.7	322.3	120.9	95.7	100.7	90.7	75.5	75.5	70.5	75.5	70.5
80°	282.0	141.0	75.5	70.5	75.5	65.5	55.4	60.4	60.4	60.4	60.4
82.5°	151.1	80.6	45.3	50.4	45.3	45.3	35.3	40.3	45.3	40.3	45.3
85°	105.8	40.3	25.2	25.2	20.1	20.1	15.1	20.1	25.2	20.1	20.1
87.5°	55.4	15.1	15.1	15.1	15.1	10.1	5.0	0.0	5.0	5.0	5.0
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)