

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: P969477

Luminaire Tested: **NVN-SB5D-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36468.5 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 364.9
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



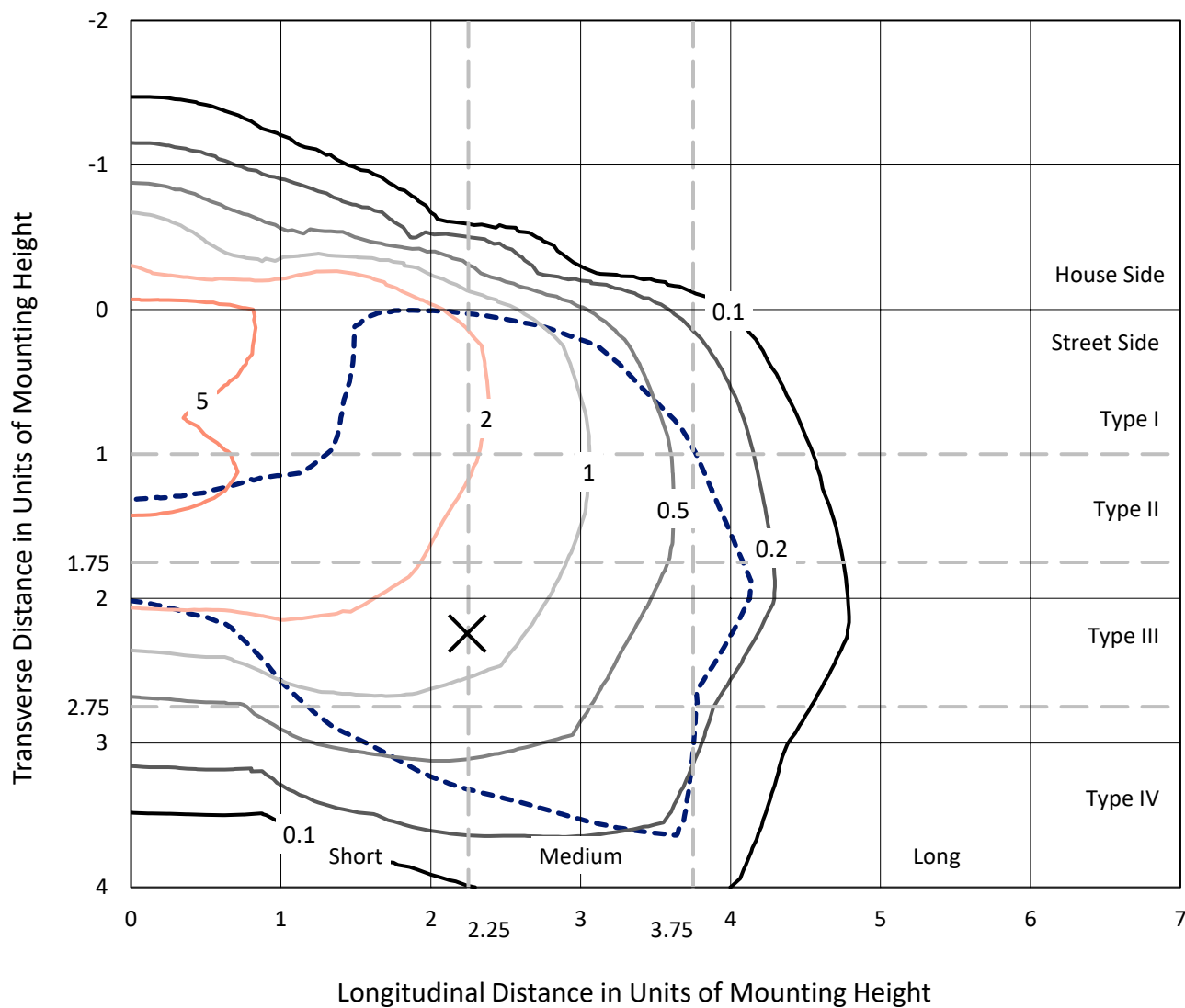
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Iso-Footcandle Lines of Horizontal Illumination

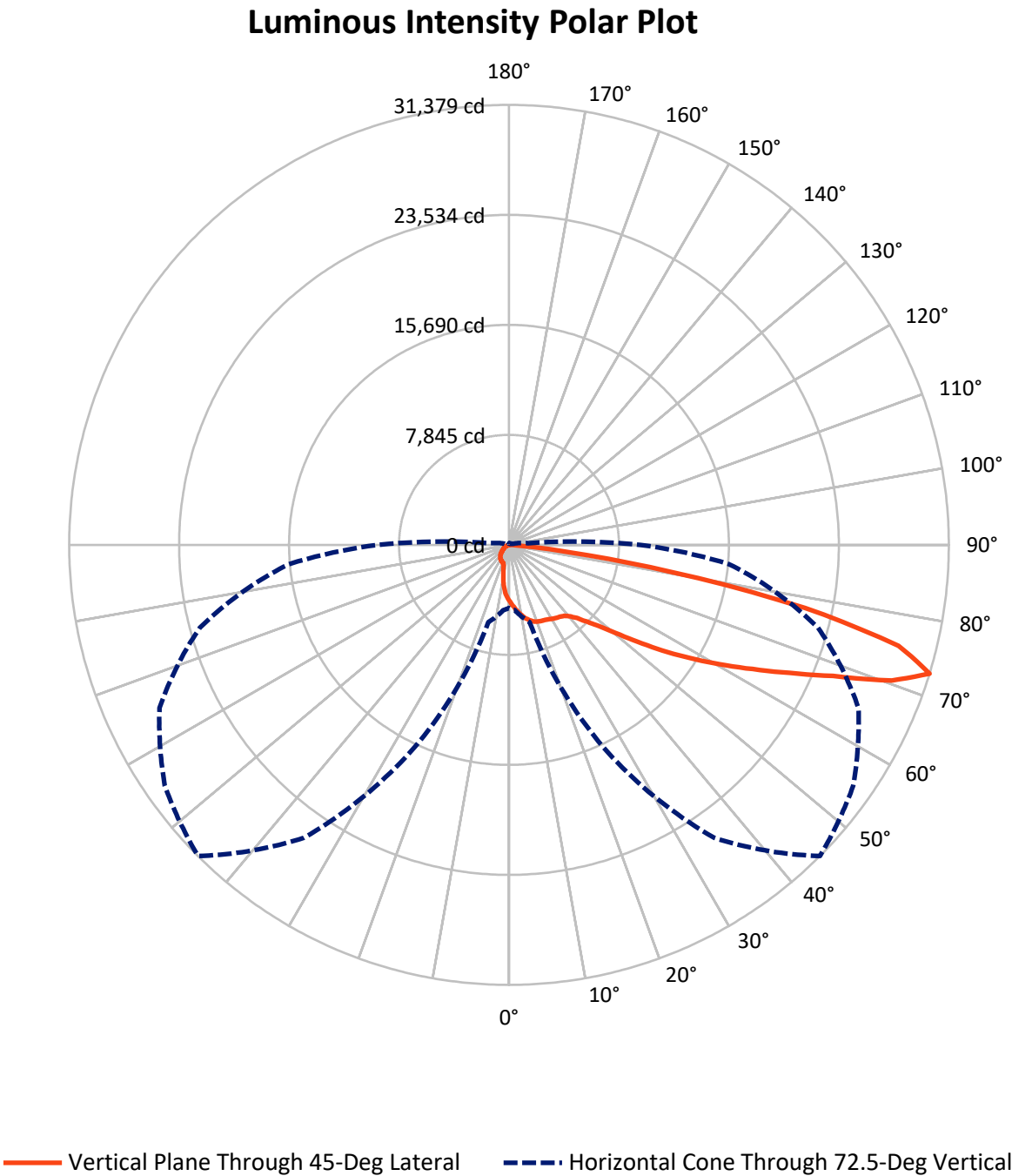
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Short - N/A

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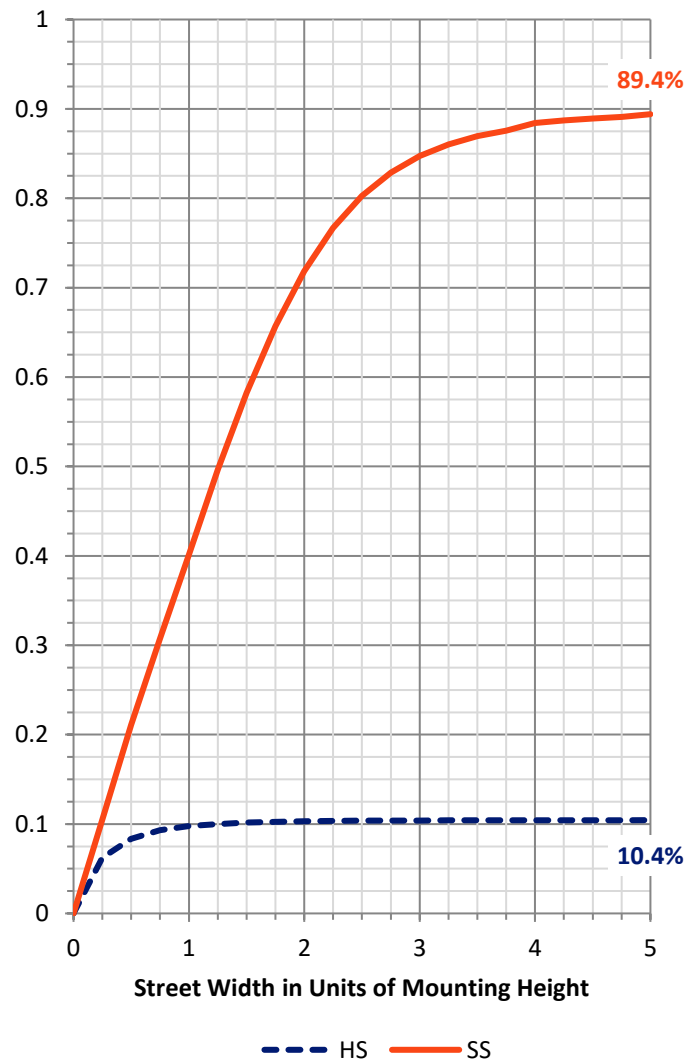
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3831.8	0.0	3831.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32636.7	0.0	32636.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	36468.5	0.0	36468.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.4	1.0
10°-20°	1100.1	3.0
20°-30°	1806.6	5.0
30°-40°	2562.2	7.0
40°-50°	4235.0	11.6
50°-60°	7607.7	20.9
60°-70°	10563.8	29.0
70°-80°	7662.6	21.0
80°-90°	554.0	1.5
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°	36468.5	100.0
0°-180°	36468.5	100.0

Coefficient of Utilization



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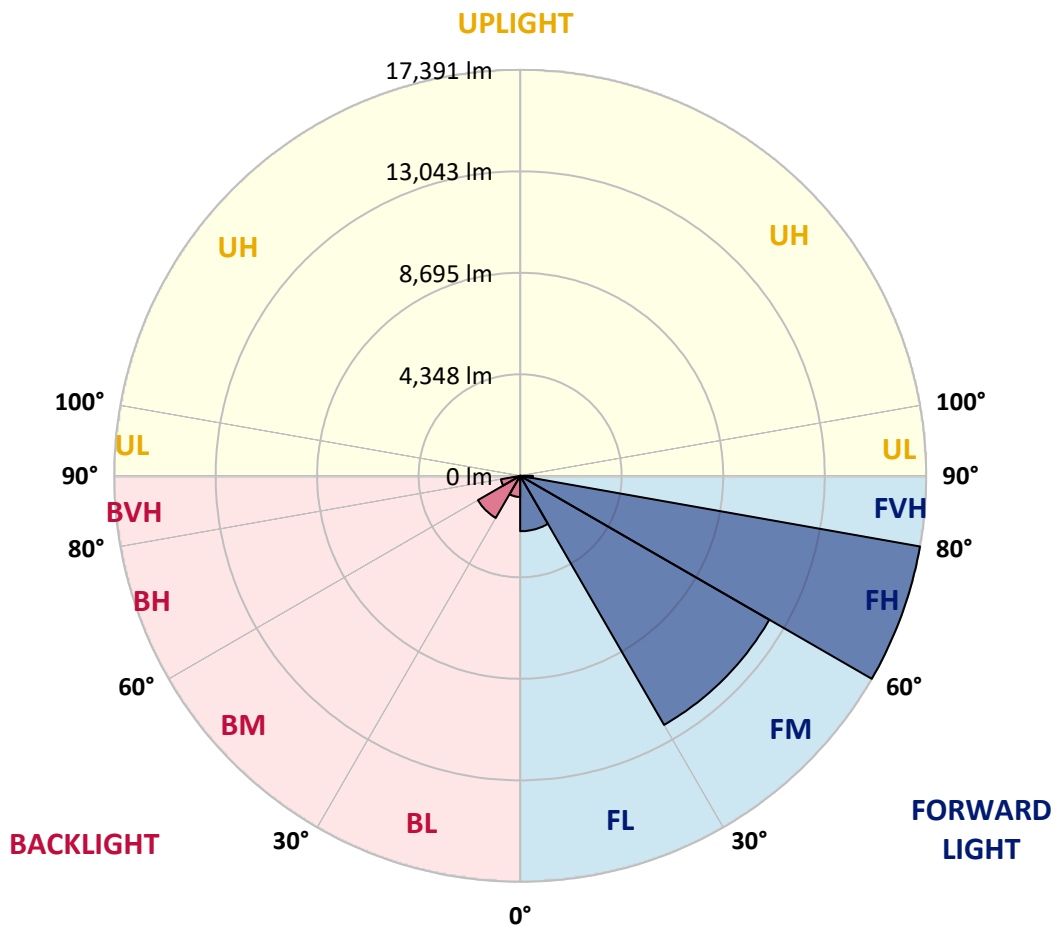
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2375.6	6.5			
FM	(30°-60°)	12321.0	33.8			
FH	(60°-80°)	17390.8	47.7			G5
FVH	(80°-90°)	549.3	1.5			G4/750
BL	(0°-30°)	907.6	2.5	B2/1000		
BM	(30°-60°)	2084.0	5.7	B2/2500		
BH	(60°-80°)	835.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	4.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2
2.5°	4363.6	4371.1	4366.1	4336.3	4286.4	4259.1	4244.1	4194.3	4162.0	4104.7	4045.0
5°	4764.4	4794.2	4776.8	4717.0	4622.4	4555.3	4535.3	4433.3	4341.2	4234.2	4109.7
7.5°	5190.0	5205.0	5172.6	5095.5	4968.5	4854.0	4836.6	4694.7	4547.8	4383.5	4214.3
10°	5558.5	5575.9	5526.1	5414.0	5269.7	5127.8	5102.9	4946.0	4771.8	4570.2	4353.7
12.5°	5867.1	5884.5	5819.8	5685.4	5526.1	5379.2	5354.3	5190.0	4998.3	4774.3	4505.5
15°	6101.1	6133.4	6046.3	5902.0	5730.2	5583.3	5570.9	5409.0	5222.4	4973.5	4687.2
17.5°	6237.9	6270.3	6188.2	6014.0	5867.1	5742.7	5727.7	5593.3	5419.1	5180.0	4863.9
20°	6260.4	6290.2	6203.1	6051.3	5929.3	5829.8	5822.3	5725.2	5598.2	5369.3	5055.6
22.5°	6193.2	6230.6	6150.8	6028.8	5944.3	5892.0	5882.1	5827.2	5755.1	5560.9	5234.9
25°	6123.5	6153.4	6093.6	5986.6	5941.7	5936.8	5944.3	5934.3	5919.4	5755.1	5443.9
27.5°	6118.5	6150.8	6083.7	5981.6	5956.7	6009.0	6016.4	6063.7	6076.2	5931.8	5645.6
30°	6160.9	6183.2	6118.5	6011.4	5999.0	6118.5	6121.0	6205.7	6225.5	6081.1	5844.7
32.5°	6252.9	6277.8	6213.1	6056.3	6038.9	6205.7	6213.1	6325.1	6357.5	6240.5	6053.8
35°	6469.5	6499.3	6424.7	6180.7	6118.5	6287.8	6310.2	6442.1	6506.8	6409.7	6270.3
37.5°	7009.7	6922.5	6820.5	6432.2	6300.3	6417.2	6454.5	6608.9	6723.4	6611.4	6529.2
40°	8351.3	8077.5	7758.9	6860.3	6618.8	6693.6	6723.4	6877.7	7034.6	6925.0	6885.2
42.5°	10365.1	10041.5	9528.7	7846.1	7099.3	7136.6	7159.0	7293.4	7515.0	7427.9	7437.8
45°	12159.9	12042.8	11520.1	9528.7	7997.9	7813.7	7841.0	7910.7	8236.8	8204.5	8269.2
47.5°	13538.9	13471.7	13068.4	11460.4	9516.3	8642.6	8719.8	8752.1	9222.5	9337.0	9511.3
50°	14599.3	14574.4	14213.5	13177.9	11500.2	9864.8	9892.2	9822.5	10527.0	10810.7	11141.7
52.5°	15600.0	15684.6	15418.3	14773.5	13618.6	11465.3	11460.4	11131.8	12082.7	12510.8	13075.9
55°	16503.5	16533.4	16560.8	16401.4	15749.3	13287.5	13240.1	12702.5	13887.3	14330.4	14942.8
57.5°	17352.3	17364.8	17608.8	17934.8	17967.2	15244.0	15156.9	14512.2	15858.8	16174.9	16550.8
60°	17922.4	17979.6	18494.9	19401.0	19796.7	17262.7	17215.5	16558.3	17865.1	18012.0	17942.3
62.5°	17100.9	17449.4	18748.8	20546.0	21524.3	19500.5	19478.2	18860.8	19976.0	19856.5	19259.1
65°	13842.5	14432.5	16717.6	21320.2	23219.4	21999.8	22032.1	21374.9	22144.1	21755.8	20329.4
67.5°	9683.1	10305.3	13008.7	21382.4	25113.7	24934.6	25121.2	24090.7	24446.7	23575.4	20583.3
70°	6696.0	7017.2	8777.0	20043.2	26589.8	28977.1	28972.0	27426.2	26736.7	24404.3	19289.0
72.5°	4503.0	4669.8	5700.3	15901.1	25504.6	31379.1	31234.7	29975.2	27508.3	22823.7	15759.3
75°	1899.3	2021.2	2638.6	8936.3	20177.6	28708.2	28317.4	26490.3	24441.6	17972.1	9832.4
77.5°	602.4	654.7	1040.5	3198.6	11114.4	21579.0	21165.8	16543.4	16381.6	9016.0	3594.5
80°	286.3	333.5	585.0	1284.4	4373.6	11736.7	11679.5	7505.0	7047.0	2434.5	721.9
82.5°	124.4	146.9	323.6	687.1	1956.5	4186.9	4271.5	2553.9	2113.3	923.5	221.5
85°	39.9	52.3	149.3	316.1	826.5	1040.5	1028.1	607.4	851.3	502.9	77.2
87.5°	0.0	0.0	49.8	72.2	84.7	59.8	67.2	52.3	236.5	139.4	27.4
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°	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2	3995.2
2.5°	4015.1	3975.3	3905.6	3840.9	3783.6	3726.4	3691.5	3641.7	3636.8	3636.8	3649.2
5°	4042.5	3977.8	3853.3	3721.4	3569.6	3425.1	3280.8	3141.4	3096.6	3064.2	3079.2
7.5°	4122.1	4020.0	3823.5	3572.0	3283.3	2967.2	2745.6	2506.6	2414.6	2364.8	2372.3
10°	4236.6	4097.2	3798.5	3358.0	2890.0	2459.4	2143.2	1884.4	1784.7	1742.5	1742.5
12.5°	4363.6	4191.8	3753.8	3091.6	2459.4	1944.1	1635.4	1516.0	1501.0	1501.0	1501.0
15°	4515.4	4306.3	3676.6	2778.0	2008.8	1538.3	1428.8	1433.8	1448.7	1458.7	1458.7
17.5°	4672.3	4428.3	3554.6	2427.0	1610.5	1384.1	1386.5	1394.0	1406.4	1416.3	1416.3
20°	4841.5	4550.3	3392.9	2053.6	1381.5	1339.2	1346.6	1354.1	1364.1	1369.1	1371.6
22.5°	5023.2	4664.8	3201.2	1687.7	1304.3	1301.9	1304.3	1311.8	1324.3	1324.3	1329.2
25°	5217.5	4791.8	2982.1	1421.4	1264.5	1264.5	1269.5	1274.5	1284.4	1284.4	1286.9
27.5°	5416.5	4908.7	2750.6	1282.0	1229.7	1227.2	1227.2	1234.6	1239.6	1242.1	1244.7
30°	5635.6	5045.7	2519.0	1252.0	1202.3	1189.8	1182.3	1187.4	1192.4	1194.8	1199.8
32.5°	5859.6	5177.6	2312.5	1264.5	1175.0	1152.5	1127.6	1122.7	1122.7	1132.6	1140.1
35°	6108.6	5321.9	2153.2	1306.9	1160.0	1097.8	1057.9	1035.6	1038.0	1053.0	1060.4
37.5°	6407.3	5496.2	2036.2	1344.2	1150.0	1035.6	970.8	943.4	926.0	943.4	938.4
40°	6798.1	5752.6	1951.6	1374.0	1137.5	963.3	876.2	831.4	799.1	809.0	804.0
42.5°	7373.0	6155.8	1919.2	1376.6	1110.2	878.7	779.1	719.3	672.1	674.6	664.6
45°	8179.6	6793.1	2086.0	1344.2	1050.4	786.6	677.1	597.4	567.5	560.1	550.1
47.5°	9284.8	7721.5	2471.8	1276.9	963.3	697.0	577.5	510.2	487.9	475.4	468.0
50°	10765.9	8913.9	2899.9	1202.3	876.2	612.3	495.4	453.0	438.1	425.7	423.1
52.5°	12483.5	10123.6	3250.9	1127.6	789.0	537.7	443.1	418.2	405.7	395.8	393.3
55°	14059.1	10957.6	3231.0	1048.0	704.5	478.0	405.7	390.8	375.9	365.9	360.9
57.5°	15039.8	11074.5	2663.5	960.8	607.4	430.6	370.8	360.9	343.5	331.1	328.6
60°	15490.4	10407.4	1866.9	846.3	510.2	385.8	333.5	328.6	306.2	288.7	283.7
62.5°	15572.5	9167.8	1244.7	704.5	425.7	343.5	296.2	288.7	258.9	229.0	214.1
65°	15239.0	7395.5	861.3	550.1	363.5	298.7	253.9	238.9	206.6	176.7	166.8
67.5°	14183.5	5192.5	599.9	395.8	308.6	236.5	201.6	196.7	171.8	146.9	139.4
70°	12249.5	2959.7	400.8	296.2	244.0	161.8	159.3	164.3	139.4	119.5	109.6
72.5°	9391.9	1354.1	249.0	216.6	166.8	109.6	127.0	129.5	107.0	89.6	79.6
75°	5528.5	579.9	156.8	139.4	84.7	72.2	92.1	94.6	72.2	57.3	49.8
77.5°	1881.9	219.0	99.5	82.1	42.3	39.9	59.8	59.8	39.9	22.4	17.4
80°	428.1	82.1	49.8	32.4	19.9	17.4	19.9	17.4	9.9	2.5	0.0
82.5°	122.0	32.4	19.9	12.4	7.5	7.5	2.5	0.0	0.0	0.0	0.0
85°	34.8	15.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	2.5	0.0	0.0	0.0	0.0	0.0	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)