

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: P969475

Luminaire Tested: **NVN-SB5D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35846.3 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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

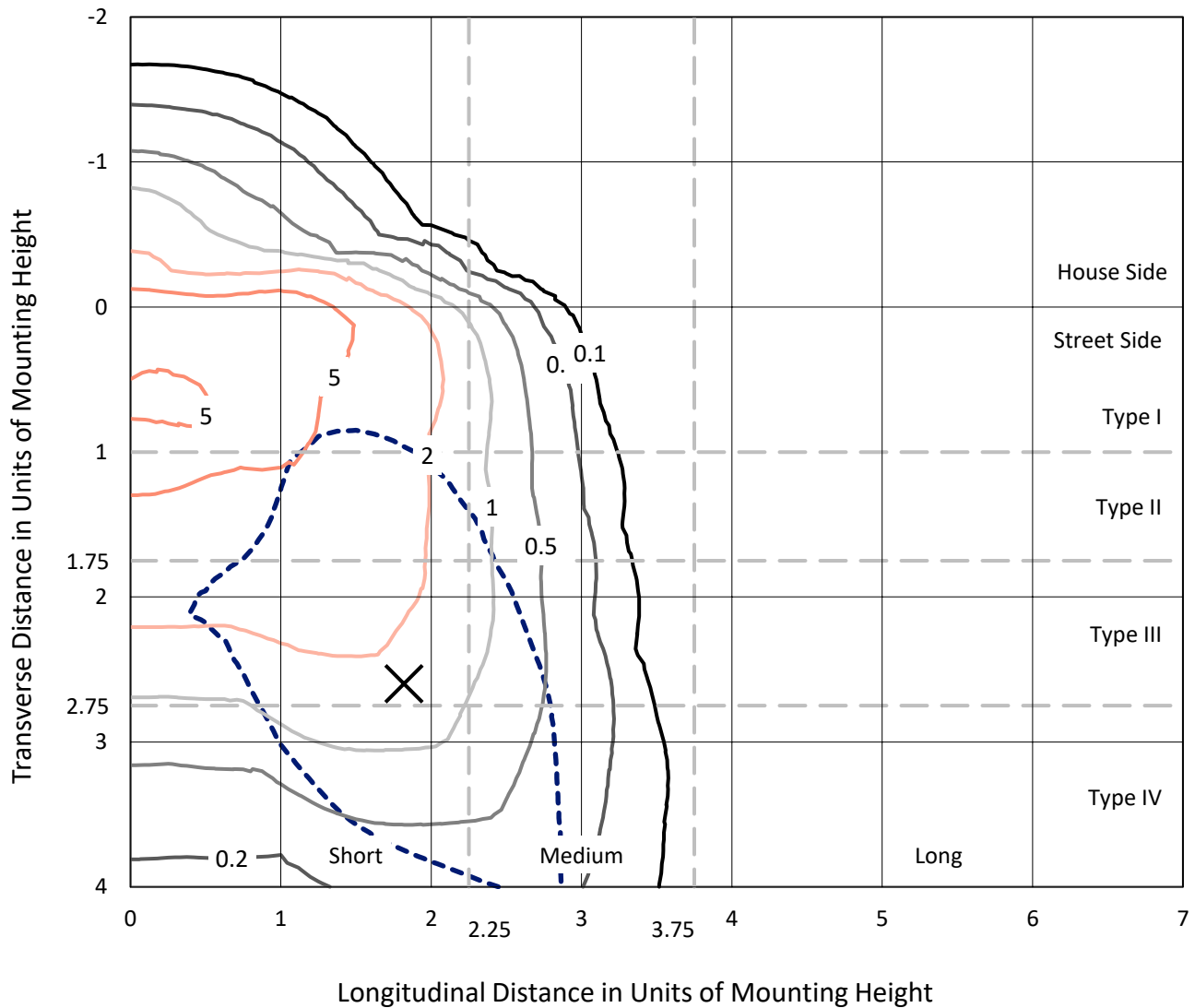


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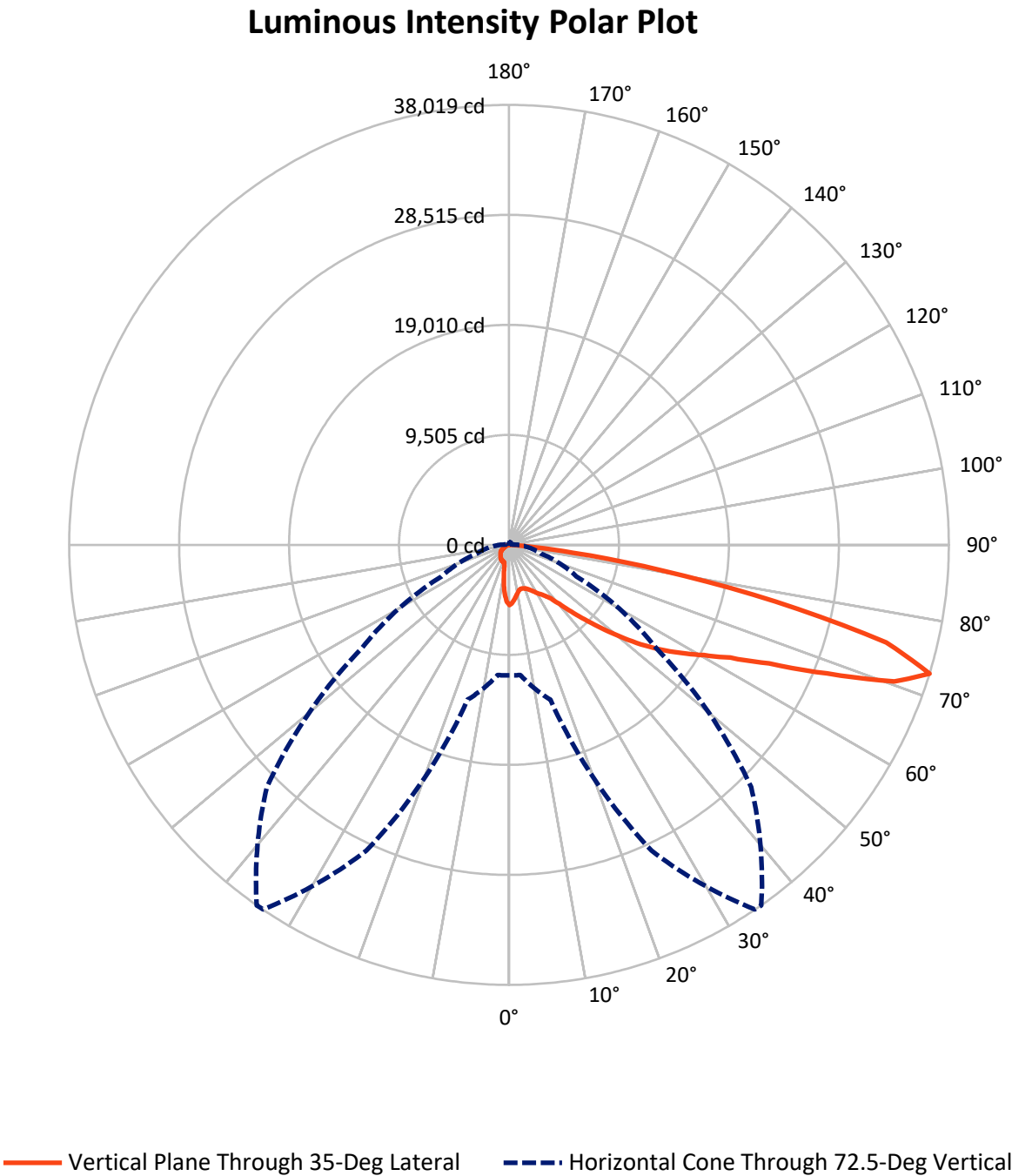
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type IV - Short - N/A

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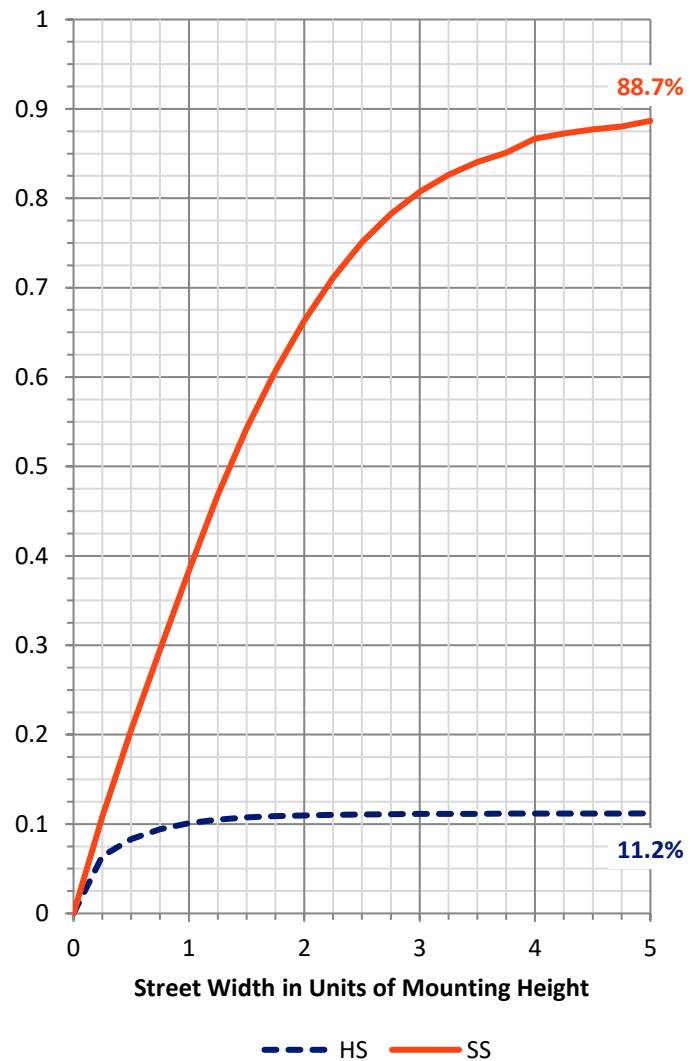
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4034.3	0.0	4034.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	31812.0	0.0	31812.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	35846.3	0.0	35846.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.9	1.2
10°-20°	998.7	2.8
20°-30°	1622.4	4.5
30°-40°	2707.0	7.6
40°-50°	5121.6	14.3
50°-60°	8138.2	22.7
60°-70°	10067.6	28.1
70°-80°	6258.1	17.5
80°-90°	505.8	1.4
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°	35846.3	100.0
0°-180°	35846.3	100.0

Coefficient of Utilization



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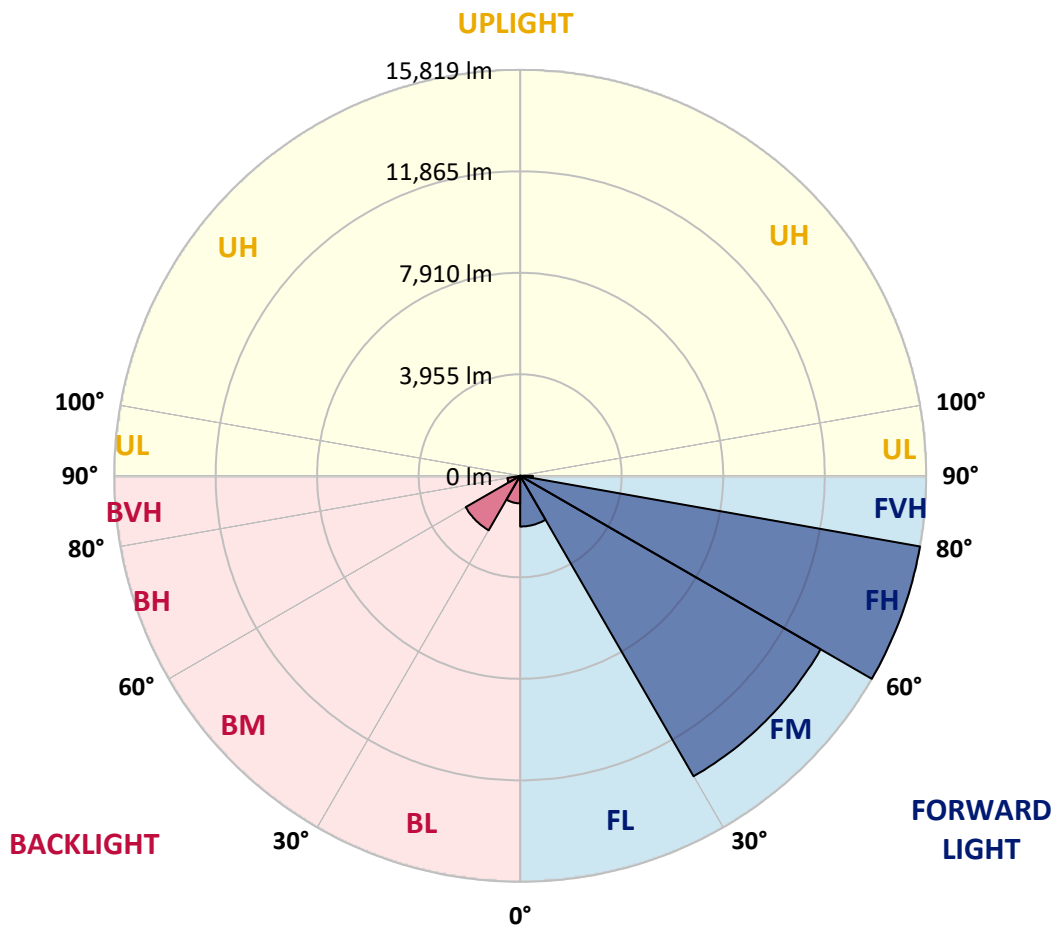
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1976.0	5.5			
FM	(30°-60°)	13517.6	37.7			
FH	(60°-80°)	15819.4	44.1			G5
FVH	(80°-90°)	498.9	1.4			G3/500
BL	(0°-30°)	1072.0	3.0	B3/2500		
BM	(30°-60°)	2449.2	6.8	B2/2500		
BH	(60°-80°)	506.2	1.4	B2/1000		G2/1000
BVH	(80°-90°)	6.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3
2.5°	4964.2	5006.2	5014.1	5027.2	5027.2	5043.0	5069.2	5106.0	5166.4	5198.0	5219.0
5°	4575.5	4607.0	4646.4	4677.9	4738.3	4746.2	4848.7	4948.4	5087.7	5192.8	5266.2
7.5°	4184.2	4220.8	4273.4	4349.6	4428.4	4452.0	4607.0	4775.1	4995.7	5192.8	5316.2
10°	3908.3	3911.0	3958.2	4034.4	4160.5	4189.4	4378.5	4617.5	4893.2	5161.2	5363.4
12.5°	3753.3	3771.7	3792.7	3850.5	3971.4	3989.7	4191.9	4473.0	4790.8	5142.8	5418.6
15°	3753.3	3766.5	3779.6	3808.5	3905.7	3921.4	4100.1	4381.1	4738.3	5150.7	5507.9
17.5°	3792.7	3813.7	3803.3	3837.4	3939.8	3950.3	4107.9	4354.8	4735.7	5200.5	5644.5
20°	3887.3	3903.1	3882.1	3903.1	4005.5	4026.5	4189.4	4404.7	4780.3	5287.3	5815.2
22.5°	4037.1	4044.9	3995.0	4010.7	4115.8	4142.1	4331.2	4546.6	4888.0	5426.5	6043.7
25°	4226.2	4241.9	4165.7	4184.2	4283.9	4315.5	4533.5	4759.3	5058.8	5618.2	6335.2
27.5°	4444.1	4452.0	4386.4	4383.7	4512.5	4557.0	4777.7	5022.0	5287.3	5859.8	6703.0
30°	4693.7	4717.3	4654.2	4643.8	4806.6	4843.3	5061.3	5345.1	5623.5	6222.4	7225.6
32.5°	4890.7	4909.0	4872.2	4898.6	5064.0	5092.9	5405.4	5802.1	6151.4	6737.1	7937.5
35°	5174.3	5184.9	5100.8	5148.1	5337.2	5410.7	5875.6	6442.9	6815.9	7383.3	8867.3
37.5°	6201.4	6201.4	5844.1	5610.3	5791.6	5857.3	6519.1	7249.3	7635.4	8250.0	10038.7
40°	7622.3	7598.6	7076.0	6597.9	6574.2	6703.0	7435.8	8265.8	8693.9	9290.1	11357.2
42.5°	9137.8	9101.0	8389.2	7916.5	7837.7	7882.2	8494.3	9518.7	9954.7	10558.7	12775.6
45°	10482.6	10472.1	9820.7	9185.0	9043.3	9185.0	9815.4	10984.3	11296.8	11932.4	14191.3
47.5°	11609.4	11609.4	11134.0	10718.9	10645.4	10729.5	11604.1	12610.1	12581.3	13395.4	15570.3
50°	12906.9	12896.4	12444.6	12266.1	12342.2	12460.4	13663.4	14322.6	13910.3	14832.2	16802.1
52.5°	13815.7	13878.7	13723.7	13694.8	14083.6	14288.5	15754.0	15998.4	15100.1	16195.3	17724.0
55°	14535.3	14608.9	14787.5	14989.8	15738.4	16006.2	17779.1	17587.5	16095.6	17377.3	18254.5
57.5°	15554.5	15449.4	15725.2	16124.5	17335.3	17658.4	19741.2	19087.2	16896.6	18336.0	18312.3
60°	16791.6	16807.3	16854.6	17358.9	18929.6	19344.6	21674.3	20505.5	17411.5	18924.4	17671.5
62.5°	18278.2	18301.9	18399.1	19173.9	21070.2	21461.6	23733.6	21666.4	17647.8	18758.8	16016.8
65°	18175.8	18275.5	19360.4	22010.5	24324.6	24710.7	26136.9	22480.7	17290.6	17245.9	13040.9
67.5°	16557.8	16720.6	18535.6	25398.8	29231.0	29661.8	29041.8	22640.9	15748.8	13411.2	8507.4
70°	14435.6	14493.3	16676.0	28445.6	34912.2	35348.3	31642.2	20878.5	11950.9	7480.4	3811.2
72.5°	11273.2	11286.3	13847.2	29152.1	37995.8	38019.4	29601.3	15499.3	6427.2	2873.5	1323.8
75°	8053.0	7974.2	9274.4	23641.6	33428.2	33696.1	22191.8	7270.3	2455.8	1357.9	659.3
77.5°	4318.0	4404.7	5247.9	14020.6	23092.7	23549.7	12108.4	2096.0	1250.2	924.6	436.0
80°	1334.2	1407.8	2151.2	6419.3	13080.2	13356.1	4488.8	932.4	872.0	659.3	286.3
82.5°	420.2	436.0	1003.4	2697.5	5429.1	5555.2	1300.1	528.0	596.2	436.0	168.1
85°	120.8	123.4	446.5	1005.9	1342.1	1368.5	365.1	204.9	341.4	270.5	86.7
87.5°	13.1	42.0	168.1	168.1	118.2	115.5	39.4	44.7	97.2	34.1	15.8
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°	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3	5195.3
2.5°	5205.9	5208.4	5174.3	5116.5	5053.5	5001.0	4935.3	4882.8	4846.0	4835.5	4853.9
5°	5242.6	5224.2	5127.0	4951.1	4740.9	4559.7	4357.5	4197.3	4092.2	4047.5	4063.3
7.5°	5297.8	5245.2	5032.4	4685.8	4283.9	3926.7	3564.2	3283.2	3104.6	3015.2	3028.5
10°	5345.1	5240.0	4874.9	4302.3	3687.6	3146.6	2658.0	2319.3	2130.2	2040.9	2043.4
12.5°	5389.7	5237.3	4670.0	3848.0	3015.2	2353.4	1899.0	1730.9	1678.3	1660.0	1654.8
15°	5473.7	5245.2	4412.6	3327.9	2345.5	1778.2	1612.7	1610.1	1620.6	1615.3	1612.7
17.5°	5589.3	5253.1	4121.1	2776.3	1809.7	1568.0	1560.2	1583.8	1599.6	1591.7	1589.1
20°	5739.1	5284.6	3811.2	2230.0	1554.9	1515.6	1533.9	1554.9	1568.0	1554.9	1552.3
22.5°	5949.2	5339.8	3472.3	1791.3	1473.5	1484.0	1499.8	1523.4	1536.6	1518.1	1515.6
25°	6206.6	5426.5	3138.8	1557.6	1434.1	1447.2	1470.9	1497.1	1512.9	1494.6	1491.9
27.5°	6540.1	5565.6	2831.5	1505.0	1394.7	1402.6	1436.7	1476.1	1497.1	1473.5	1473.5
30°	7023.4	5794.2	2566.2	1528.7	1371.0	1352.7	1399.9	1455.1	1478.8	1457.8	1455.1
32.5°	7664.3	6117.3	2403.3	1565.4	1360.6	1294.9	1339.6	1410.5	1449.9	1436.7	1436.7
35°	8504.8	6608.4	2340.3	1607.4	1352.7	1234.5	1266.0	1342.1	1410.5	1423.6	1423.6
37.5°	9523.9	7291.3	2358.6	1625.9	1329.0	1184.6	1200.4	1266.0	1355.3	1397.3	1407.8
40°	10682.2	8087.1	2463.7	1607.4	1302.8	1142.6	1145.1	1195.0	1273.9	1336.9	1357.9
42.5°	11877.3	9016.9	2658.0	1539.1	1279.1	1105.8	1097.9	1132.0	1184.6	1229.2	1247.6
45°	13014.6	9973.0	2849.8	1444.6	1250.2	1069.0	1050.6	1063.7	1074.3	1092.6	1103.1
47.5°	14007.4	10645.4	2794.7	1357.9	1210.8	1026.9	995.5	990.3	958.7	956.0	953.5
50°	14693.0	10792.5	2482.1	1271.2	1153.0	979.7	929.8	898.3	843.2	816.8	819.5
52.5°	14911.0	10212.1	2027.7	1184.6	1058.5	916.7	845.7	795.8	727.5	703.9	701.3
55°	14622.0	9074.7	1620.6	1079.5	927.2	832.6	753.8	688.2	633.0	604.1	604.1
57.5°	13915.5	7627.5	1281.8	956.0	787.9	738.1	659.3	593.6	546.3	517.4	512.2
60°	12744.0	6056.8	1013.8	808.9	672.4	635.6	554.2	512.2	470.2	436.0	428.1
62.5°	10965.9	4323.3	795.8	640.8	562.1	520.1	472.7	441.3	391.3	344.1	336.2
65°	8557.3	2644.9	614.6	470.2	451.7	430.7	401.9	373.0	312.5	265.3	257.4
67.5°	5397.5	1252.9	438.6	354.5	357.2	346.7	333.5	310.0	265.3	223.2	218.0
70°	2377.1	606.7	288.9	270.5	265.3	265.3	275.8	267.9	225.9	186.4	178.6
72.5°	808.9	325.6	215.4	204.9	191.8	189.1	231.1	223.2	181.2	144.4	136.5
75°	422.9	218.0	157.5	147.1	115.5	139.2	183.9	173.3	128.7	94.5	86.7
77.5°	275.8	155.0	107.7	94.5	65.7	91.9	136.5	120.8	76.2	47.3	42.0
80°	173.3	102.4	63.0	44.7	31.5	49.9	73.5	52.5	28.9	10.5	7.9
82.5°	91.9	52.5	23.7	15.8	13.1	15.8	18.3	13.1	5.2	0.0	0.0
85°	36.8	18.3	7.9	5.2	2.7	0.0	5.2	2.7	0.0	0.0	0.0
87.5°	13.1	2.7	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)