

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: P968908

Luminaire Tested: **NVN-SB5C-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-827-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28549.3 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

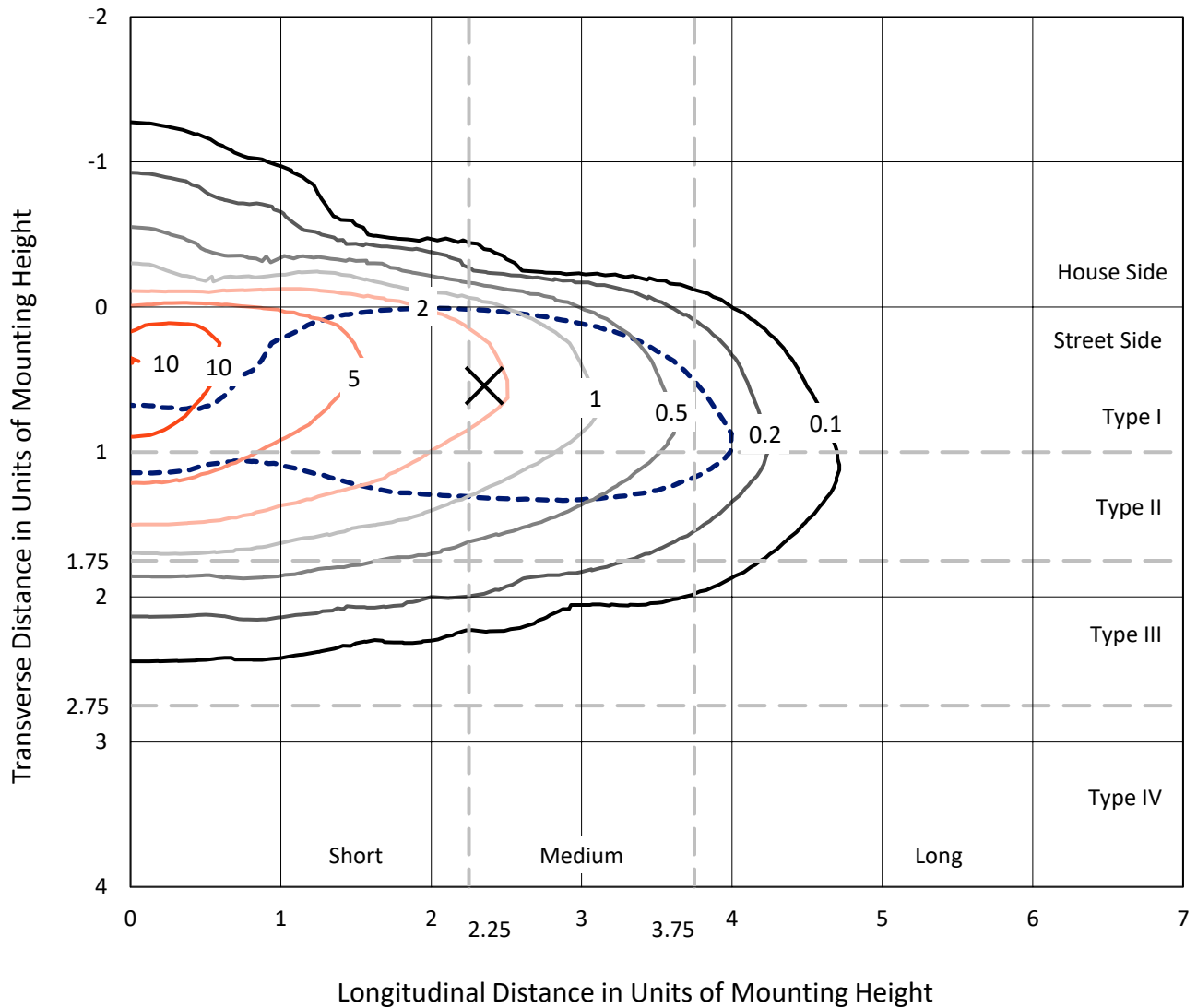
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: NVN-SB5C-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

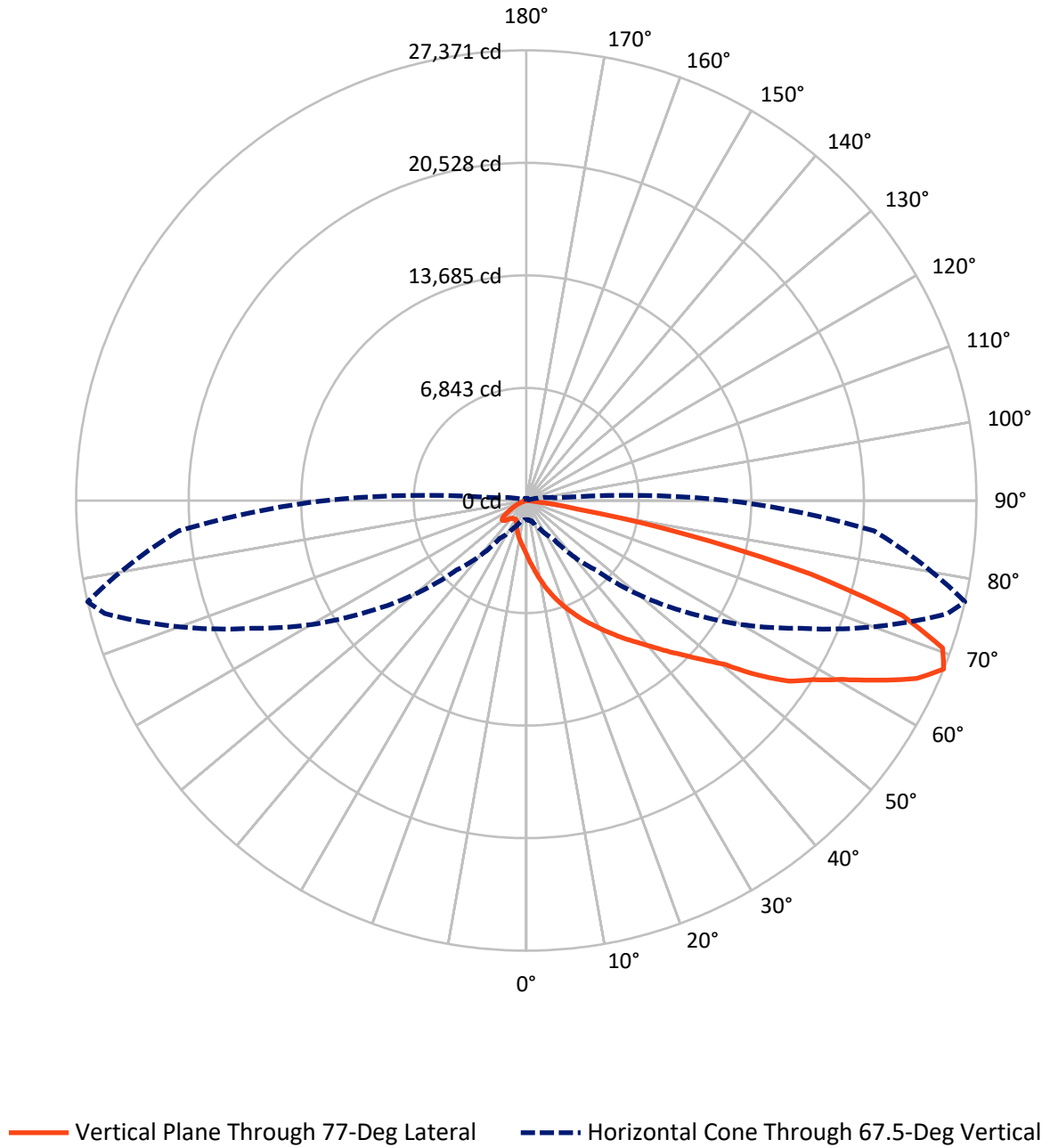
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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CATALOG NUMBER: NVN-SB5C-827-U-T2R-HSS

Luminous Intensity Polar Plot



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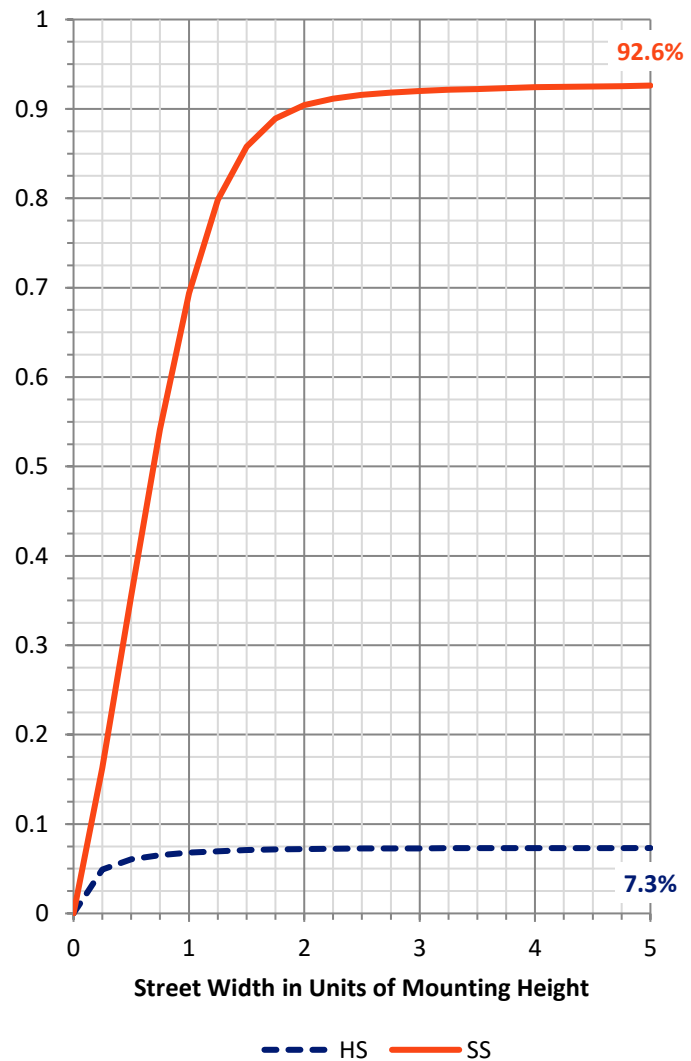
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2100.4	0.0	2100.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	26448.9	0.0	26448.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	28549.3	0.0	28549.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	1.2
10°-20°	1176.7	4.1
20°-30°	2270.7	8.0
30°-40°	3942.1	13.8
40°-50°	5723.7	20.0
50°-60°	6572.9	23.0
60°-70°	5706.5	20.0
70°-80°	2687.8	9.4
80°-90°	132.9	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°	28549.3	100.0
0°-180°	28549.3	100.0

Coefficient of Utilization



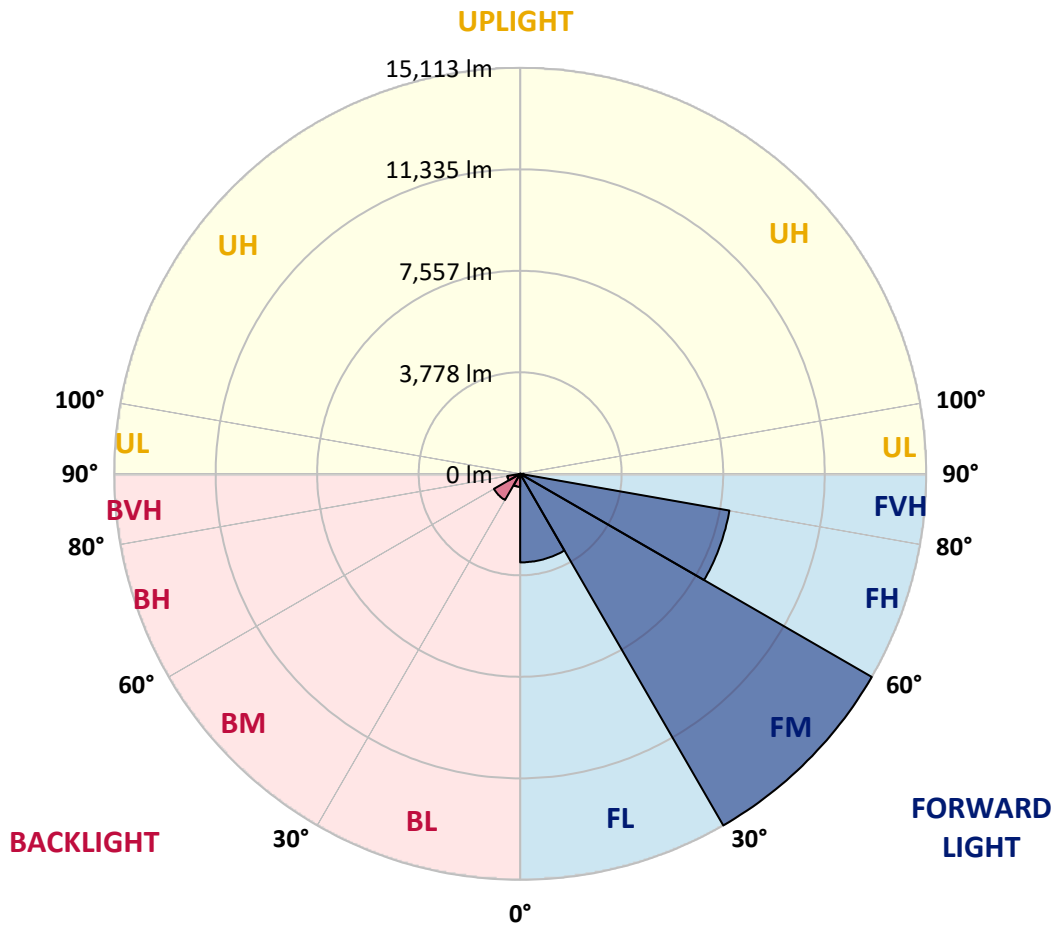
REPORT NUMBER: P968908
 CATALOG NUMBER: NVN-SB5C-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3297.1	11.5			
FM (30°-60°)	15113.2	52.9			
FH (60°-80°)	7908.1	27.7			G4/12000
FVH (80°-90°)	130.5	0.5			G2/225
BL (0°-30°)	486.3	1.7	B1/500		
BM (30°-60°)	1125.4	3.9	B2/2500		
BH (60°-80°)	486.3	1.7	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4

Type II Medium



REPORT NUMBER: P968908
 CATALOG NUMBER: NVN-SB5C-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2
2.5°	4558.0	4586.4	4545.6	4467.6	4350.5	4274.4	4088.1	3912.6	3717.7	3655.6	3460.6
5°	5556.1	5580.9	5534.8	5449.7	5293.7	5144.8	4900.1	4533.2	4152.0	4029.7	3684.0
7.5°	6295.3	6309.5	6291.8	6213.8	6064.8	5896.4	5623.5	5189.1	4623.6	4488.8	3958.8
10°	6827.2	6873.2	6868.0	6837.9	6738.6	6602.0	6311.3	5816.7	5151.9	4978.1	4269.0
12.5°	7180.0	7231.4	7261.5	7329.0	7323.6	7236.7	6981.5	6458.4	5678.4	5474.5	4618.2
15°	7282.8	7337.8	7453.0	7609.0	7747.3	7791.6	7612.6	7087.8	6258.1	5997.5	4976.4
17.5°	7224.3	7309.4	7447.6	7694.1	7997.3	8197.6	8178.1	7695.9	6784.7	6486.8	5327.3
20°	7353.8	7435.2	7543.4	7750.8	8103.6	8467.1	8612.5	8277.4	7307.6	6995.6	5696.1
22.5°	8069.9	8055.8	8066.4	8100.1	8311.0	8671.0	8970.6	8805.7	7825.3	7506.2	6086.1
25°	9204.6	9140.7	9032.6	8850.0	8796.9	8970.6	9282.6	9273.7	8371.4	8029.1	6485.1
27.5°	10505.8	10495.2	10241.7	9802.0	9553.8	9486.5	9635.4	9729.3	8912.1	8546.9	6885.7
30°	11752.1	11780.5	11438.4	10949.0	10493.4	10229.3	10094.5	10161.8	9461.7	9105.3	7298.7
32.5°	12837.1	12867.2	12495.0	11922.3	11358.5	11039.5	10755.8	10589.2	10060.9	9672.6	7752.6
35°	13753.7	13783.8	13356.6	12723.6	12122.7	11833.7	11512.8	11057.2	10663.6	10302.0	8257.9
37.5°	14572.7	14563.8	13991.2	13353.0	12762.7	12533.9	12365.5	11633.3	11284.1	10934.8	8818.1
40°	15056.7	15093.9	14604.6	13900.8	13328.2	13161.5	13150.9	12347.8	12000.3	11661.7	9431.5
42.5°	15198.5	15264.1	14909.5	14331.7	13812.2	13631.4	13909.7	13120.7	12833.5	12503.8	10124.6
45°	14943.3	15007.0	14845.7	14445.1	14141.9	14024.9	14562.1	13922.1	13723.5	13397.4	10906.5
47.5°	14198.6	14278.5	14317.4	14232.3	14228.7	14347.5	15147.1	14765.9	14780.1	14446.9	11812.4
50°	12757.4	12892.0	13250.2	13551.5	14017.8	14602.9	15716.2	15680.8	15971.4	15684.2	12993.1
52.5°	10137.0	10328.5	11562.4	12386.8	13434.6	14555.0	16342.0	17148.7	18061.6	17641.5	14657.8
55°	8146.2	8146.2	9149.6	10692.0	12296.4	14239.4	16615.0	18102.4	19485.2	19385.9	15829.7
57.5°	6641.1	6720.8	7360.8	8724.1	10649.4	13487.8	16783.5	18701.6	20632.2	20559.6	16974.9
60°	4098.8	4270.8	5479.9	6825.4	8775.5	12149.2	16677.1	19307.9	22024.0	22082.5	18354.2
62.5°	2308.2	2372.1	2911.0	4910.8	6823.6	10349.8	15863.3	19646.6	23803.9	24052.0	19775.9
65°	1593.8	1625.6	1833.1	3056.3	4730.0	8240.2	14273.1	19435.6	25587.4	26089.0	20981.5
67.5°	1157.6	1173.6	1303.1	1866.8	2806.4	5974.4	11780.5	18371.9	26532.2	27370.8	21212.0
70°	890.0	900.6	994.6	1226.8	1657.6	3687.5	8555.7	16256.9	25847.9	26849.6	20031.3
72.5°	723.3	734.0	806.7	907.7	1099.1	2180.6	5185.6	13202.3	22827.1	23908.4	17052.9
75°	609.9	624.0	689.6	755.2	861.6	1400.6	2432.3	9193.9	17166.4	17875.5	11858.5
77.5°	338.7	312.0	560.3	625.8	726.8	886.4	1138.2	5410.7	9614.1	9810.9	5261.7
80°	210.9	218.0	445.0	503.5	558.4	446.8	521.2	2083.1	3332.9	3166.3	1019.4
82.5°	12.4	28.4	342.1	363.5	382.9	191.5	196.8	707.4	803.1	737.5	180.8
85°	0.0	0.0	156.0	125.9	132.9	54.9	56.7	164.9	108.1	117.1	35.5
87.5°	0.0	0.0	0.0	3.6	0.0	5.3	10.7	14.1	5.3	7.1	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P968908
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2	3292.2
2.5°	3336.5	3212.4	2960.6	2714.2	2513.9	2327.8	2194.7	2068.9	2005.1	2001.5	1998.0
5°	3437.5	3176.9	2673.4	2228.5	1870.3	1583.1	1397.0	1264.0	1196.7	1173.6	1170.0
7.5°	3579.4	3187.5	2421.7	1803.0	1381.1	1134.6	1028.3	985.7	971.5	955.6	952.0
10°	3758.4	3212.4	2196.6	1451.9	1088.6	964.4	921.9	904.2	893.5	882.8	879.3
12.5°	3958.8	3235.4	1973.1	1205.5	957.4	893.5	863.4	842.1	827.9	815.5	812.0
15°	4153.7	3249.7	1741.0	1033.6	890.0	838.6	806.7	783.6	764.1	749.9	748.1
17.5°	4347.0	3269.1	1522.8	930.7	835.0	783.6	751.6	723.3	707.4	691.4	689.6
20°	4561.6	3265.5	1317.2	858.0	780.0	728.7	694.9	668.4	652.4	634.7	632.9
22.5°	4760.1	3247.8	1136.4	796.0	723.3	673.6	636.4	609.9	593.9	579.7	577.9
25°	4988.8	3233.7	985.7	739.2	670.1	620.5	579.7	554.9	537.2	524.8	523.0
27.5°	5208.6	3212.4	875.8	687.9	618.7	570.8	531.9	503.5	487.5	478.7	478.7
30°	5424.9	3207.0	835.0	638.3	572.7	524.8	485.7	459.2	446.8	443.2	441.5
32.5°	5685.5	3221.3	852.7	620.5	530.0	482.3	445.0	425.5	413.1	413.1	413.1
35°	5963.9	3217.7	879.3	636.4	501.7	439.6	411.3	398.9	386.5	386.5	386.5
37.5°	6313.1	3223.0	900.6	663.1	491.1	404.2	388.3	372.3	365.2	365.2	365.2
40°	6834.3	3398.5	890.0	686.1	487.5	379.4	347.5	342.1	336.8	336.8	336.8
42.5°	7472.5	3779.7	904.2	687.9	485.7	361.6	319.1	329.7	317.3	315.6	313.8
45°	8171.0	4196.3	994.6	650.7	484.0	352.8	304.9	317.3	297.9	297.9	297.9
47.5°	8864.2	4609.4	1086.7	597.5	478.7	351.1	292.5	285.5	280.1	281.9	281.9
50°	9819.7	4946.2	1122.2	524.8	466.3	347.5	269.5	271.2	267.7	271.2	271.2
52.5°	10860.4	5017.2	1079.6	443.2	430.8	336.8	253.5	260.7	258.8	262.4	262.4
55°	11509.2	4940.9	891.7	368.8	375.9	294.3	237.6	251.7	251.7	251.7	251.7
57.5°	12179.4	4616.5	632.9	299.6	312.0	241.1	223.3	242.9	241.1	239.3	239.3
60°	12661.6	4091.7	416.7	246.4	248.2	198.5	207.5	228.7	226.9	218.0	218.0
62.5°	13021.5	3512.0	267.7	209.2	189.7	179.1	189.7	207.5	200.3	180.8	177.3
65°	12980.7	2708.9	205.6	179.1	156.0	156.0	164.9	180.8	159.6	127.6	124.1
67.5°	12223.7	1833.1	170.1	150.7	131.2	129.5	136.5	150.7	136.5	108.1	104.6
70°	10871.0	1198.4	136.5	117.1	104.6	95.7	109.9	129.5	115.2	86.9	83.3
72.5°	8823.4	730.4	102.8	85.1	76.3	62.0	86.9	106.4	92.1	63.9	60.3
75°	5708.5	372.3	70.9	54.9	40.8	37.2	63.9	79.7	63.9	39.1	33.7
77.5°	2184.2	156.0	39.1	24.8	21.3	17.7	35.5	47.9	26.5	8.8	7.1
80°	420.1	65.6	19.5	12.4	10.7	7.1	5.3	3.6	0.0	0.0	0.0
82.5°	72.7	21.3	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	0.0	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)