

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: P966308

Luminaire Tested: **NVN-SB4B-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4B-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

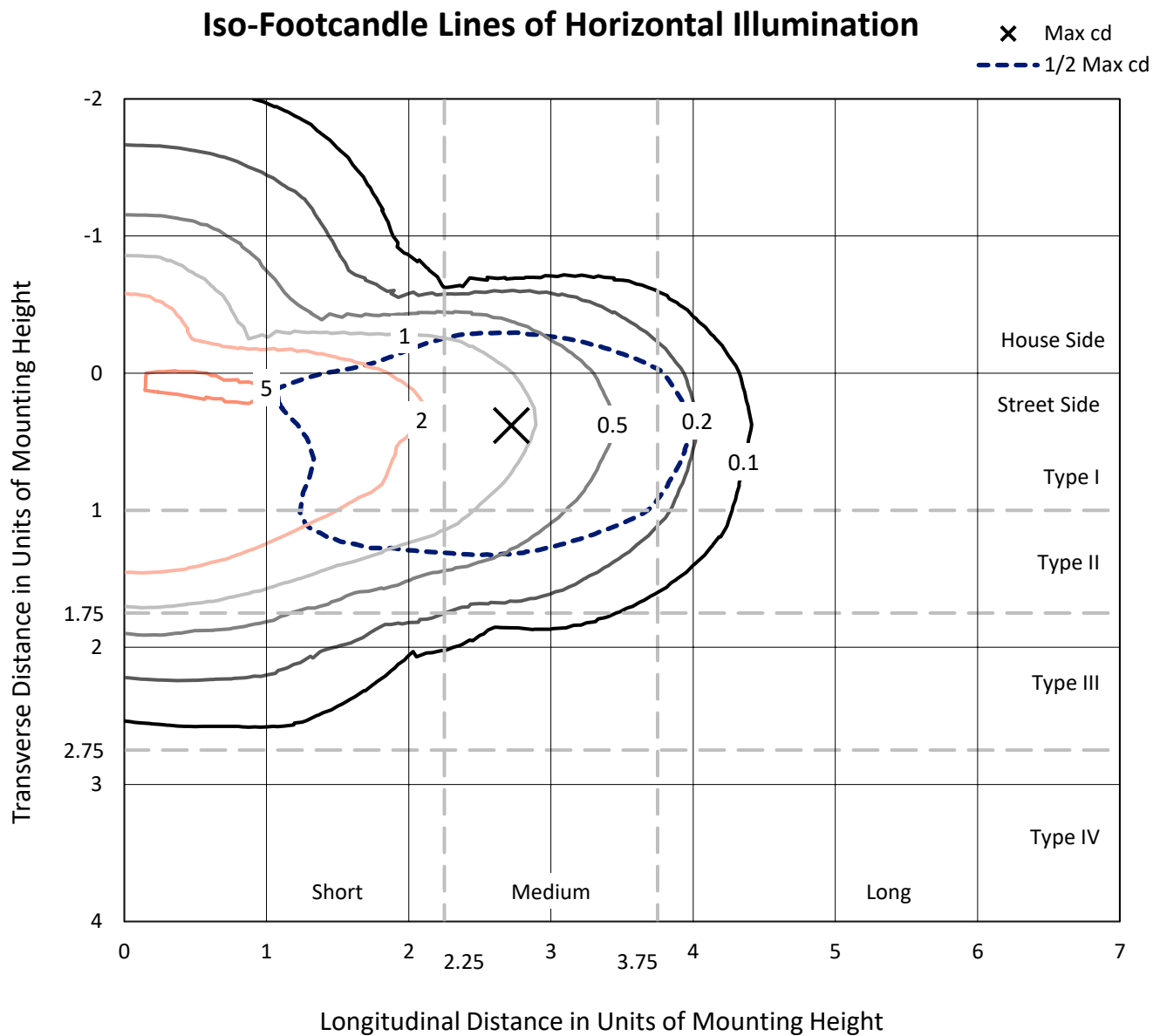
Lumens per Lamp: N/A
Luminaire Lumens: 20595.3 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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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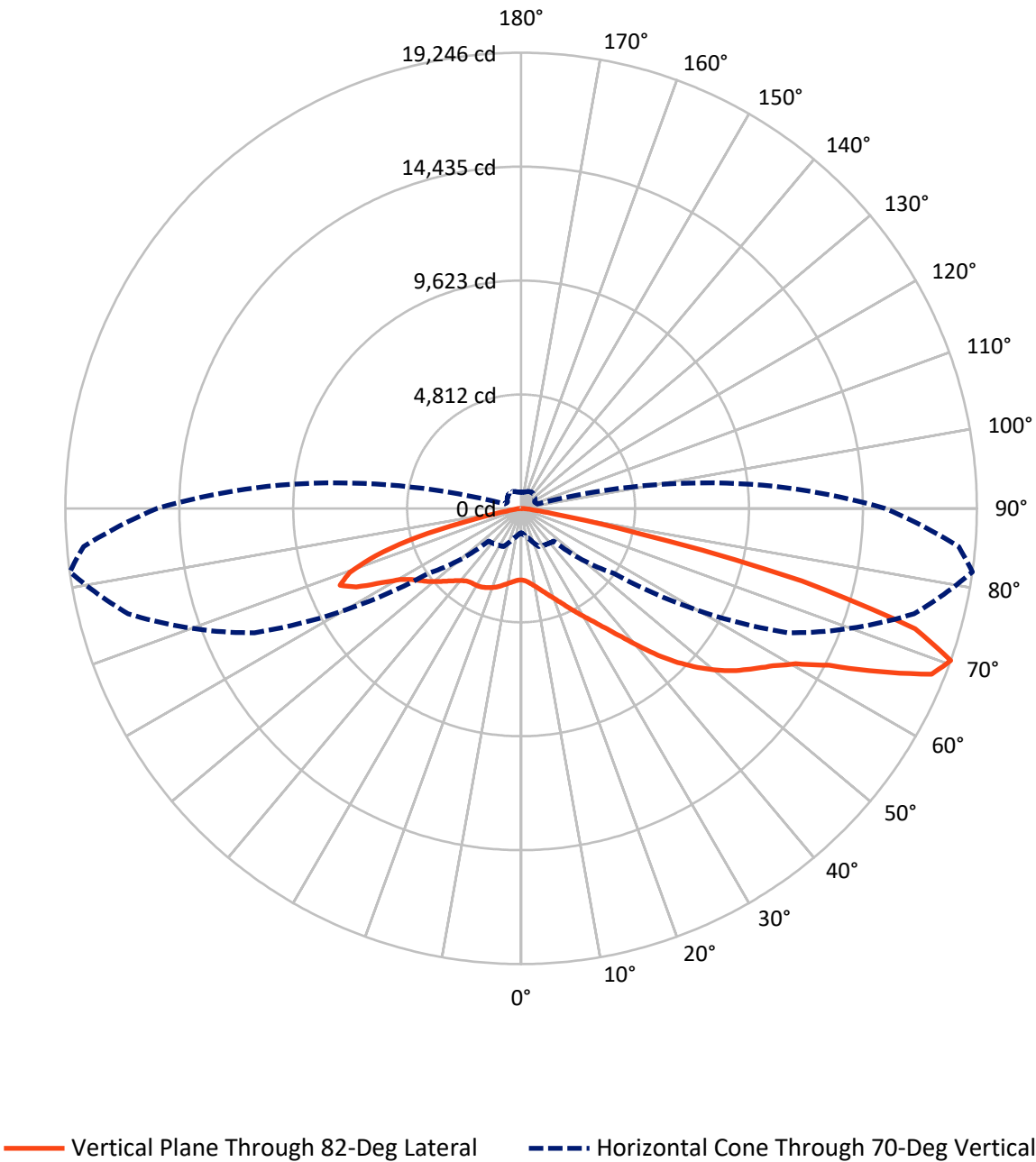
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Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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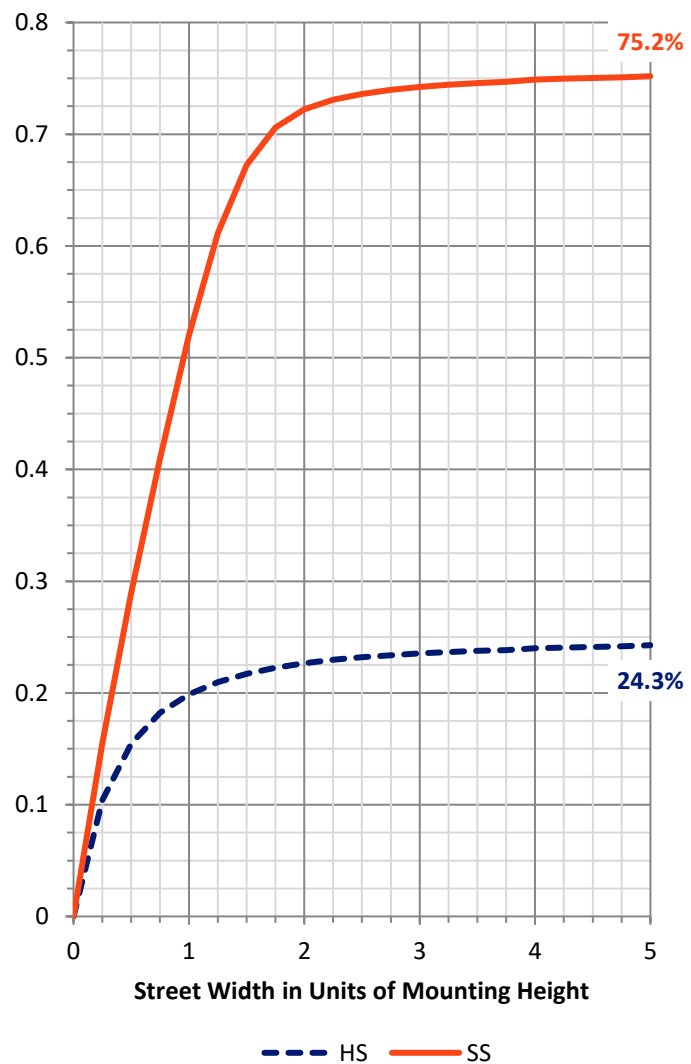
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5077.2	0.0	5077.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15518.1	0.0	15518.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	20595.3	0.0	20595.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.1	1.4
10°-20°	819.1	4.0
20°-30°	1370.3	6.7
30°-40°	2140.7	10.4
40°-50°	3409.3	16.6
50°-60°	4744.5	23.0
60°-70°	4963.0	24.1
70°-80°	2593.9	12.6
80°-90°	269.4	1.3
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°	20595.3	100.0
0°-180°	20595.3	100.0

Coefficient of Utilization



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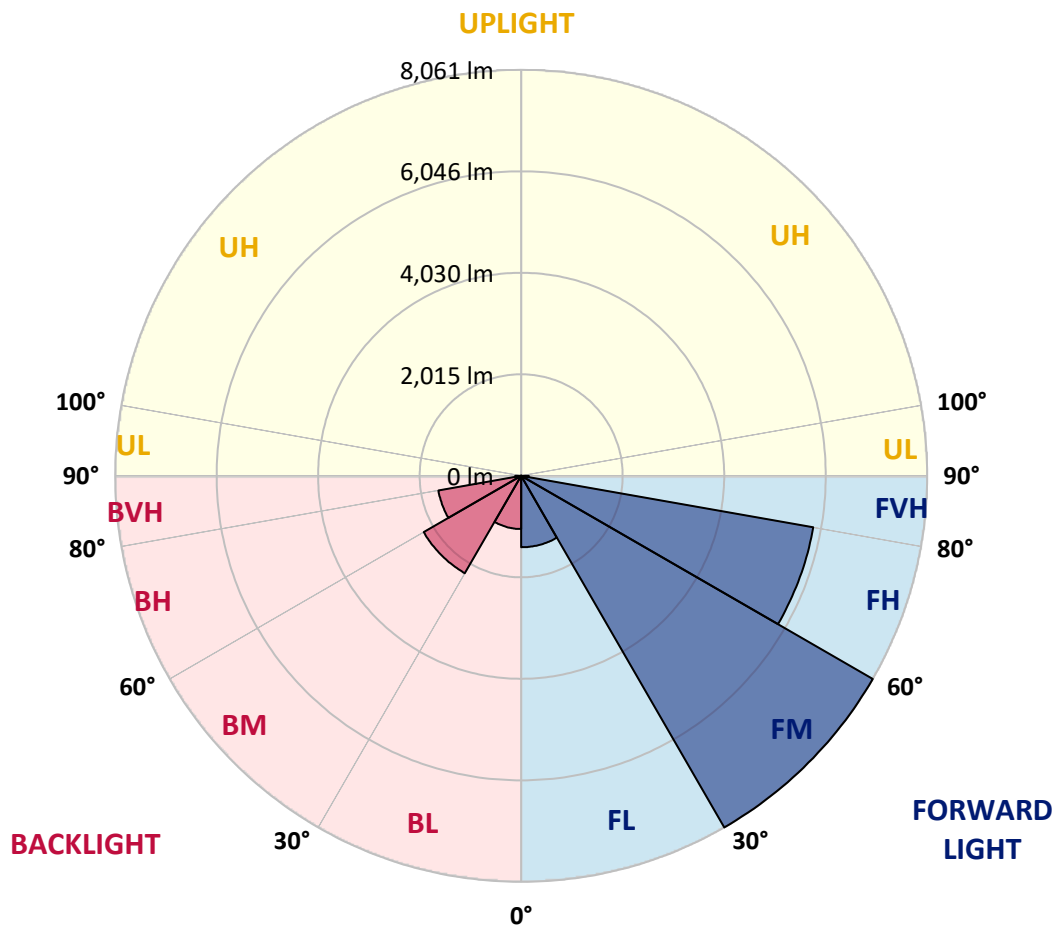
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1418.2	6.9			
FM	(30°-60°)	8060.8	39.1			
FH	(60°-80°)	5888.3	28.6			G3/7500
FVH	(80°-90°)	150.8	0.7			G2/225
BL	(0°-30°)	1056.3	5.1	B3/2500		
BM	(30°-60°)	2233.8	10.8	B2/2500		
BH	(60°-80°)	1668.6	8.1	B3/2500		G3/2500
BVH	(80°-90°)	118.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5
2.5°	3091.7	3109.1	3103.7	3098.3	3098.3	3090.6	3089.5	3078.6	3069.8	3055.6	3052.3
5°	3131.0	3149.6	3147.4	3151.8	3166.0	3169.3	3172.6	3166.0	3148.5	3131.0	3123.4
7.5°	3096.0	3116.8	3123.4	3149.6	3193.3	3232.6	3262.2	3274.2	3257.8	3232.6	3220.7
10°	2978.0	3001.0	3023.9	3086.2	3163.8	3256.6	3335.4	3382.4	3379.1	3355.0	3334.2
12.5°	2738.7	2762.7	2811.9	2933.2	3075.3	3239.2	3385.7	3484.0	3517.9	3500.4	3464.3
15°	2547.4	2568.1	2605.3	2729.9	2914.6	3163.8	3404.2	3595.5	3681.8	3672.0	3628.3
17.5°	2542.0	2550.7	2573.7	2632.7	2774.8	3045.8	3384.6	3704.8	3869.8	3868.7	3814.0
20°	2638.1	2641.4	2654.5	2666.5	2747.4	2956.1	3334.2	3795.5	4080.7	4080.7	4021.7
22.5°	2771.5	2769.2	2782.4	2771.5	2810.8	2948.5	3302.6	3875.2	4315.7	4333.1	4258.8
25°	2971.5	2960.5	2957.2	2932.1	2939.8	3019.5	3337.5	3965.9	4594.4	4630.4	4537.5
27.5°	3238.1	3220.7	3208.6	3150.6	3131.0	3166.0	3444.6	4075.2	4904.7	4966.9	4849.0
30°	3585.7	3554.0	3536.5	3435.9	3364.9	3370.3	3606.4	4220.5	5229.2	5329.8	5180.0
32.5°	4059.9	4010.7	3963.8	3798.8	3668.7	3626.0	3815.2	4421.6	5581.1	5741.8	5549.5
35°	4591.1	4551.7	4501.4	4246.8	4046.8	3948.4	4097.0	4702.5	5993.2	6247.8	5997.6
37.5°	5102.4	5068.6	5092.6	4749.5	4491.5	4348.5	4466.4	5079.6	6501.4	6877.2	6559.3
40°	5631.5	5605.2	5608.5	5280.6	4980.1	4819.4	4914.6	5552.7	7083.8	7625.9	7234.7
42.5°	6206.3	6186.6	6121.0	5830.3	5492.7	5342.9	5430.3	6099.2	7708.9	8478.3	7975.6
45°	6850.0	6838.0	6776.7	6443.5	6056.5	5888.2	6006.3	6702.4	8337.3	9280.5	8719.8
47.5°	7406.2	7416.1	7408.4	7127.5	6726.5	6479.4	6620.5	7331.9	8922.0	10034.5	9433.5
50°	7674.0	7725.3	7800.8	7713.3	7464.2	7212.8	7240.1	7939.5	9479.3	10741.6	10117.6
52.5°	7534.1	7631.3	7836.8	7976.7	8072.9	8020.4	7947.1	8542.8	10003.9	11379.8	10764.6
55°	7012.7	7149.4	7490.4	7828.0	8318.7	8700.1	8796.3	9211.6	10515.4	11941.6	11376.5
57.5°	6063.1	6285.0	6591.0	7274.0	8100.2	9029.1	9786.4	10139.4	11057.4	12541.5	12016.9
60°	4434.8	4732.0	5112.3	6128.7	7335.2	8853.1	10629.0	11564.5	11827.9	13318.5	12850.7
62.5°	2838.1	3021.7	3371.4	4328.8	5715.6	7951.5	10886.9	13345.8	13133.8	14592.7	14101.0
65°	1943.1	2061.1	2381.3	2919.0	3694.9	5918.9	10196.3	14681.3	15208.0	16612.4	16238.6
67.5°	1411.9	1501.5	1774.8	2245.8	2407.5	3502.5	7912.2	14620.1	17224.3	18693.1	18111.8
70°	1029.5	1092.9	1322.4	1774.8	1852.4	1948.5	4793.2	12427.8	17180.6	19246.1	18549.9
72.5°	762.8	806.5	960.6	1377.0	1499.4	1315.8	2372.6	9032.4	14763.3	17408.0	16849.5
75°	551.9	584.7	698.3	1053.5	1200.0	1002.1	1183.6	5278.4	10297.9	12245.4	12343.7
77.5°	421.8	447.0	521.3	771.5	960.6	751.8	734.4	2428.3	4882.8	4906.9	5182.3
80°	338.8	355.2	395.6	543.1	736.6	562.8	478.7	980.3	1543.1	1306.0	1370.4
82.5°	249.2	276.4	334.5	381.4	526.7	388.0	291.8	495.1	586.8	504.9	509.2
85°	142.1	160.6	202.1	273.2	336.6	237.2	167.2	219.7	273.2	224.1	200.0
87.5°	50.2	65.6	71.0	107.1	146.5	98.4	64.5	63.3	89.6	66.6	55.8
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°	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5	3019.5
2.5°	3041.4	3035.9	3014.1	2984.6	2953.9	2924.4	2914.6	2893.9	2879.6	2871.9	2880.8
5°	3102.6	3085.1	3033.7	2968.2	2899.3	2825.0	2772.5	2724.4	2689.5	2656.7	2669.8
7.5°	3190.0	3159.5	3070.9	2956.1	2833.7	2710.3	2618.5	2548.6	2501.5	2471.0	2477.5
10°	3291.7	3244.6	3109.1	2937.5	2748.5	2571.4	2463.3	2403.2	2373.7	2357.3	2361.6
12.5°	3408.5	3341.9	3148.5	2894.9	2618.5	2416.2	2341.9	2324.5	2325.6	2326.6	2328.9
15°	3552.9	3460.0	3180.2	2802.0	2449.0	2297.1	2284.0	2312.5	2341.9	2356.2	2355.0
17.5°	3715.6	3584.5	3185.6	2649.0	2283.0	2220.7	2262.2	2323.4	2368.2	2387.8	2392.2
20°	3890.5	3711.3	3146.3	2432.6	2146.4	2158.3	2232.7	2311.4	2360.6	2385.7	2392.2
22.5°	4090.6	3846.8	3052.3	2205.4	2034.8	2090.6	2178.0	2254.6	2305.9	2331.1	2337.6
25°	4318.9	3998.7	2904.7	2014.1	1938.7	2014.1	2101.6	2164.9	2206.4	2229.4	2235.9
27.5°	4572.4	4157.2	2708.0	1862.2	1854.5	1935.4	2007.6	2056.8	2078.6	2096.1	2102.7
30°	4827.1	4301.4	2469.8	1747.4	1781.3	1857.8	1909.2	1931.1	1937.7	1940.9	1948.5
32.5°	5102.4	4426.1	2219.5	1652.4	1711.4	1782.5	1813.0	1822.9	1792.3	1771.5	1778.1
35°	5435.8	4559.3	1974.8	1577.0	1642.6	1703.8	1713.6	1704.9	1668.8	1626.2	1628.3
37.5°	5847.8	4725.5	1779.2	1523.5	1578.1	1618.5	1606.5	1604.3	1607.6	1557.3	1560.6
40°	6352.7	4941.8	1636.0	1481.9	1525.6	1534.3	1500.5	1519.0	1535.4	1459.0	1461.1
42.5°	6913.3	5203.0	1545.3	1453.4	1481.9	1461.1	1408.7	1429.5	1427.2	1326.8	1325.6
45°	7484.9	5487.1	1513.6	1432.7	1441.5	1399.9	1342.0	1347.5	1301.5	1210.8	1214.1
47.5°	8053.2	5792.1	1533.3	1415.2	1391.2	1344.2	1299.4	1275.3	1207.6	1139.8	1139.8
50°	8610.5	6112.3	1605.4	1380.3	1322.4	1295.0	1262.3	1219.6	1147.5	1089.6	1085.2
52.5°	9127.4	6434.6	1686.2	1322.4	1236.0	1252.4	1231.6	1182.4	1111.4	1052.4	1053.5
55°	9617.1	6757.1	1718.0	1242.6	1155.2	1215.2	1203.2	1112.5	1027.3	979.2	974.8
57.5°	10150.4	7145.1	1682.9	1140.9	1089.6	1172.6	1126.7	1026.2	977.0	941.0	937.7
60°	10889.1	7753.7	1607.6	1015.3	1027.3	1109.3	1030.5	989.0	935.5	895.0	892.9
62.5°	12116.4	8889.2	1486.2	890.6	954.1	1015.3	984.6	943.1	888.5	849.1	849.1
65°	13930.5	10467.3	1257.9	793.5	872.1	923.4	935.5	893.9	837.1	795.6	797.8
67.5°	15460.5	11457.3	951.9	712.6	787.9	849.1	883.0	842.6	782.5	742.0	743.1
70°	15376.3	10738.3	726.7	632.7	713.6	775.9	819.6	787.9	723.4	685.2	688.5
72.5°	13657.3	8983.2	587.9	551.9	638.3	699.5	751.8	727.9	662.3	625.1	625.1
75°	10033.4	6376.7	470.0	470.0	544.3	619.6	677.5	662.3	602.2	575.9	568.3
77.5°	4229.4	2675.2	368.3	390.1	452.4	532.2	604.3	609.8	557.4	590.1	535.5
80°	1124.5	737.7	280.8	307.1	355.2	439.3	525.6	523.5	466.7	436.0	405.5
82.5°	428.3	290.7	200.0	216.4	256.9	336.6	416.4	429.5	372.7	322.4	322.4
85°	165.0	124.5	123.5	130.1	149.8	222.9	314.8	325.6	280.8	238.2	245.9
87.5°	42.6	37.2	45.9	43.7	68.9	119.1	180.3	186.9	171.6	99.4	142.1
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)