

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: LUMARK

Report Number: P969998

Luminaire Tested: **NAV-SB6A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19648.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 170.9
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

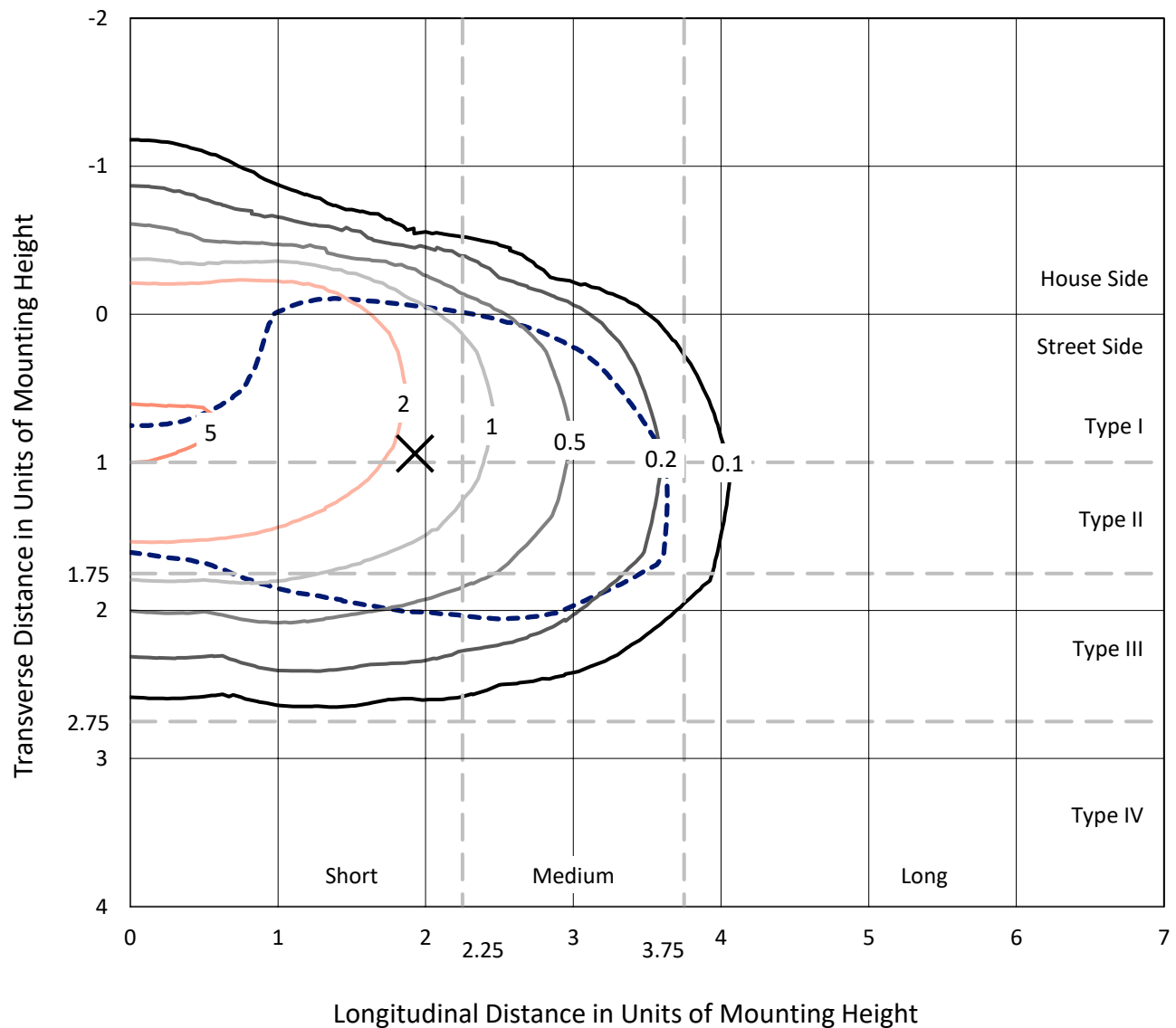


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

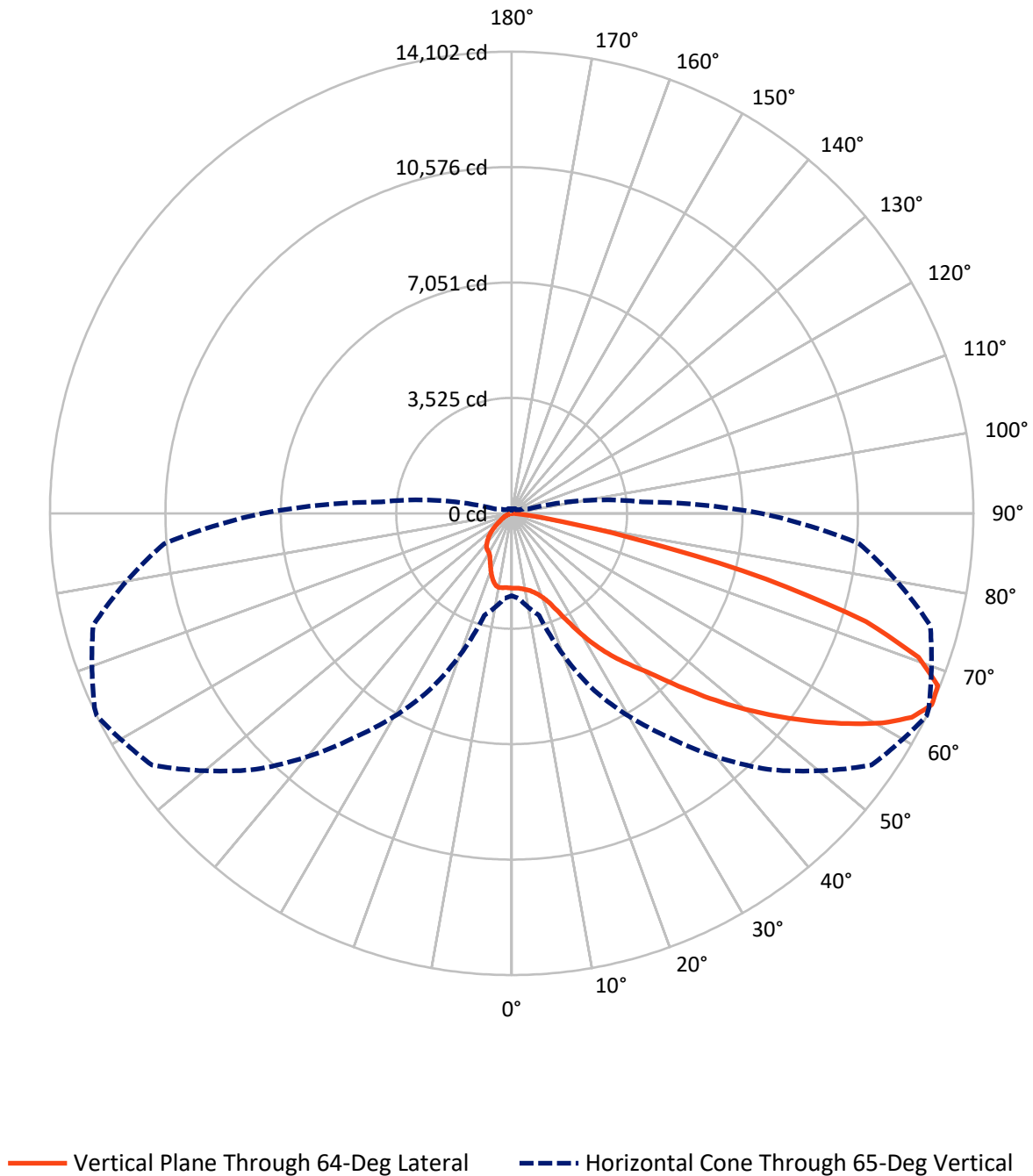


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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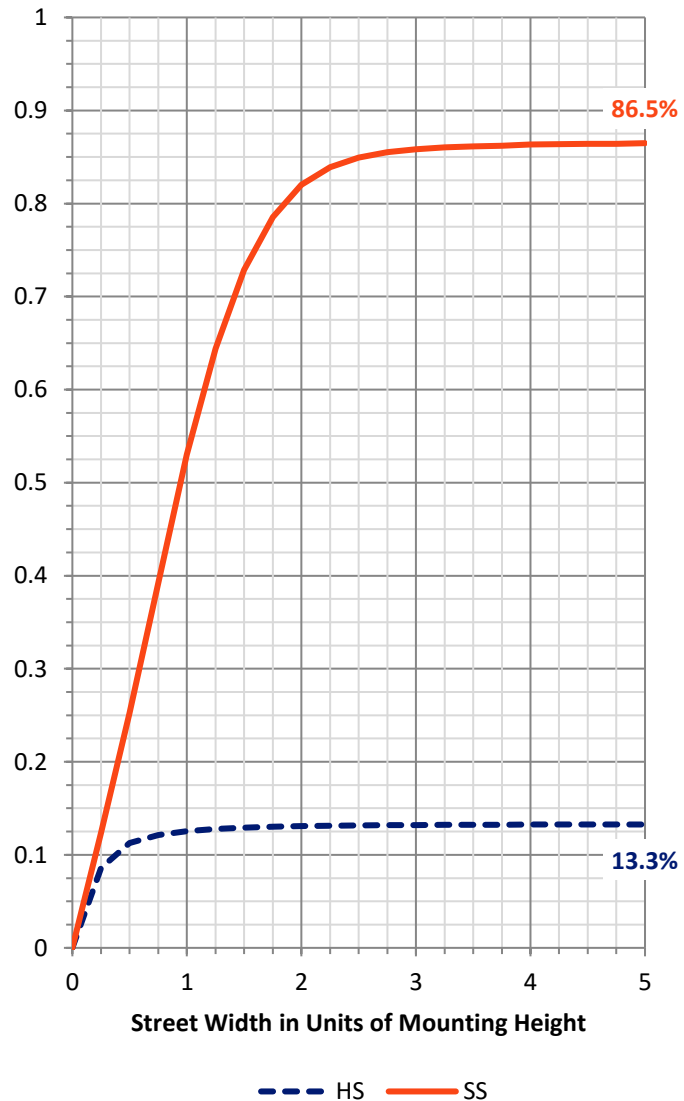
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.6	0.0	2627.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17020.7	0.0	17020.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	19648.2	0.0	19648.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	1.1
10°-20°	571.9	2.9
20°-30°	1083.6	5.5
30°-40°	2192.8	11.2
40°-50°	3735.4	19.0
50°-60°	5079.8	25.9
60°-70°	4770.2	24.3
70°-80°	1911.1	9.7
80°-90°	92.6	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°	19648.2	100.0
0°-180°	19648.2	100.0

Coefficient of Utilization



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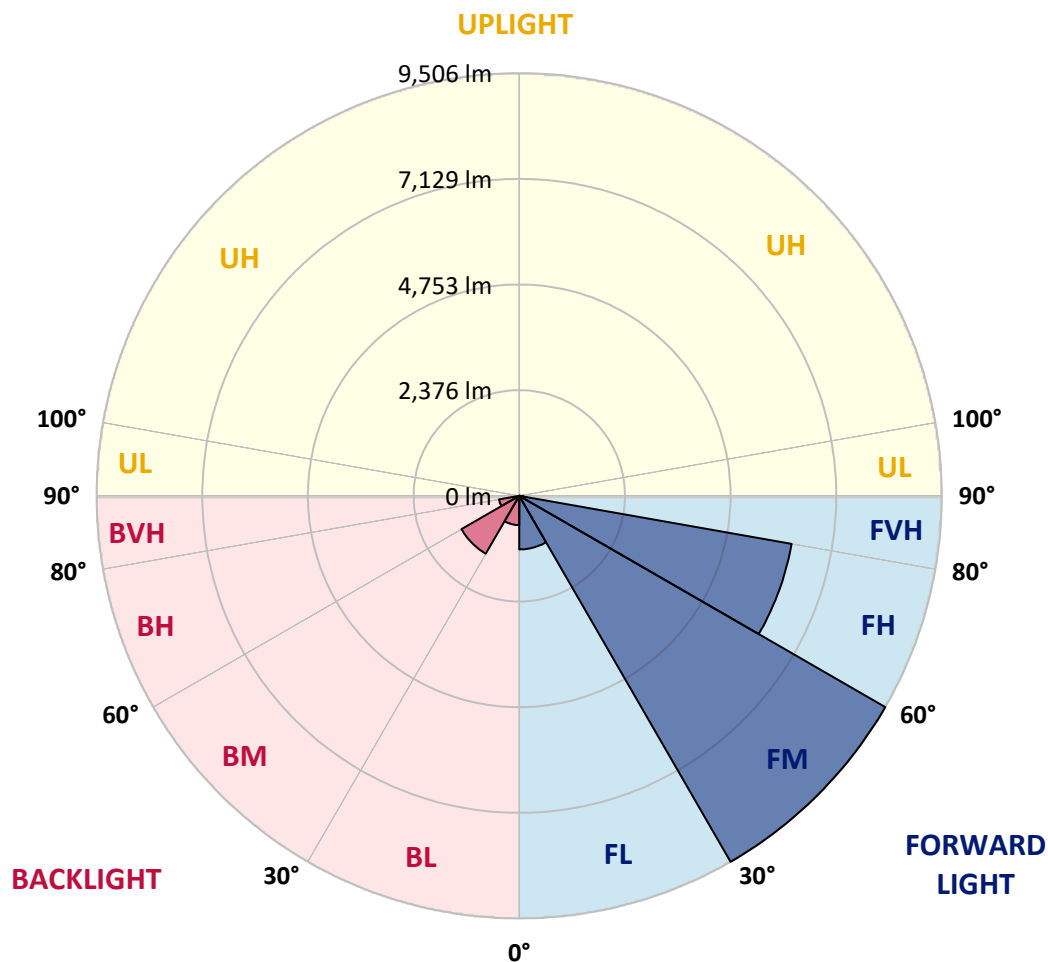
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1206.6	6.1			
FM	(30°-60°)	9505.8	48.4			
FH	(60°-80°)	6220.2	31.7			G3/7500
FVH	(80°-90°)	88.1	0.4			G1/100
BL	(0°-30°)	659.7	3.4	B2/1000		
BM	(30°-60°)	1502.2	7.6	B2/2500		
BH	(60°-80°)	461.2	2.3	B1/500		G1/500
BVH	(80°-90°)	4.5	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3
2.5°	2277.3	2293.2	2289.2	2285.3	2284.0	2286.6	2287.9	2286.6	2286.6	2286.6	2287.9
5°	2233.9	2247.1	2247.1	2256.3	2269.5	2285.3	2297.1	2302.5	2306.4	2305.0	2305.0
7.5°	2151.0	2161.5	2169.4	2199.6	2232.7	2274.8	2310.4	2331.4	2345.9	2351.1	2351.1
10°	2094.3	2107.5	2120.6	2152.3	2199.6	2262.9	2323.5	2374.8	2409.1	2424.9	2424.9
12.5°	2091.7	2104.8	2122.0	2156.2	2211.5	2278.7	2352.5	2428.8	2479.0	2511.9	2511.9
15°	2119.3	2135.2	2151.0	2193.1	2252.3	2334.0	2413.1	2505.3	2576.3	2611.9	2611.9
17.5°	2176.0	2197.1	2208.9	2251.0	2314.2	2405.2	2509.2	2611.9	2694.9	2739.7	2739.7
20°	2287.9	2312.9	2316.9	2351.1	2413.1	2510.5	2634.4	2762.1	2857.0	2907.0	2907.0
22.5°	2519.8	2555.3	2523.7	2540.9	2596.1	2693.6	2828.0	2991.3	3099.3	3144.1	3144.1
25°	2928.1	2978.1	2896.4	2867.4	2891.2	2992.6	3161.2	3365.4	3452.3	3474.6	3474.6
27.5°	3730.2	3665.7	3541.9	3420.7	3349.6	3407.5	3597.2	3850.1	3934.4	3908.0	3908.0
30°	4611.4	4554.8	4387.5	4118.8	3950.2	3941.0	4116.2	4399.4	4479.7	4399.4	4399.4
32.5°	5493.9	5439.9	5258.1	4927.6	4635.2	4490.2	4611.4	4907.8	4959.2	4840.6	4840.6
35°	6362.0	6306.6	6124.9	5786.3	5426.8	5097.4	5073.8	5395.1	5449.1	5272.6	5272.6
37.5°	7235.3	7189.1	6995.5	6663.5	6309.3	5854.8	5634.8	5868.0	5920.7	5737.6	5737.6
40°	7858.3	7878.0	7745.0	7488.1	7183.8	6687.3	6264.5	6323.7	6412.0	6302.6	6302.6
42.5°	8393.0	8432.6	8316.6	8187.5	8011.0	7573.7	7044.2	6963.8	7011.3	6898.0	6898.0
45°	8855.4	8888.3	8784.2	8753.9	8750.0	8443.0	7896.4	7705.4	7696.2	7560.6	7560.6
47.5°	9025.2	9088.5	9133.3	9234.7	9432.3	9303.2	8777.6	8519.5	8447.0	8232.3	8232.3
50°	9089.8	9156.9	9309.8	9604.9	10072.4	10127.7	9654.9	9354.6	9222.8	8906.7	8906.7
52.5°	9002.9	9122.7	9328.2	9824.8	10503.2	10788.9	10496.5	10201.5	9986.8	9517.8	9517.8
55°	8490.5	8610.3	9030.6	9822.2	10717.8	11252.6	11292.1	11066.9	10728.4	10011.8	10011.8
57.5°	7410.4	7588.2	8253.4	9487.6	10713.9	11651.7	12071.8	11948.0	11463.4	10400.4	10400.4
60°	5914.1	6155.1	6966.5	8746.0	10383.2	11867.8	12755.5	12821.3	12187.8	10715.1	10715.1
62.5°	4126.6	4406.0	5173.9	7584.3	9627.2	11712.3	13254.7	13577.4	12835.9	10836.4	10836.4
65°	2517.1	2606.7	3225.8	5968.1	8341.7	11061.6	13408.8	14101.6	14055.5	13232.3	10657.2
67.5°	1676.8	1751.8	1929.7	4092.4	6475.2	9761.6	13039.9	14034.5	14047.6	13167.8	10001.2
70°	1010.2	1074.8	1190.7	2380.2	4196.6	7726.6	11898.0	13178.3	13254.7	12305.0	8757.9
72.5°	416.3	459.7	565.1	1078.8	2173.3	4903.8	9474.4	11314.5	11492.3	10346.3	6721.5
75°	235.7	258.2	331.9	541.4	943.1	2285.3	5738.9	8032.1	8294.2	7131.1	4043.7
77.5°	156.7	167.3	214.7	350.3	530.8	779.7	2452.6	4184.7	4685.2	3894.9	1750.5
80°	105.4	114.6	147.5	234.4	345.1	334.6	781.0	1550.3	1907.2	1338.2	426.8
82.5°	71.1	72.5	105.4	154.2	218.6	162.1	230.5	482.1	605.9	387.2	162.1
85°	40.8	39.6	77.7	89.6	97.5	67.1	69.8	144.9	189.6	163.3	92.2
87.5°	5.2	7.9	30.3	23.7	13.2	14.5	14.5	25.0	36.9	39.6	19.8
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°	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3	2285.3
2.5°	2287.9	2286.6	2282.7	2278.7	2269.5	2264.2	2266.9	2264.2	2262.9	2264.2	2269.5
5°	2305.0	2301.1	2290.6	2277.3	2259.0	2236.5	2222.1	2201.0	2181.2	2169.4	2172.0
7.5°	2351.1	2347.2	2332.7	2295.8	2236.5	2143.1	2057.4	1982.4	1925.7	1892.8	1894.1
10°	2424.9	2418.3	2395.9	2314.2	2158.9	1954.7	1784.7	1643.8	1551.6	1508.2	1504.2
12.5°	2511.9	2504.0	2464.4	2297.1	2011.4	1692.6	1458.1	1301.3	1215.8	1177.5	1173.6
15°	2614.6	2604.0	2526.3	2215.4	1796.6	1402.8	1188.1	1070.8	1015.6	981.3	982.6
17.5°	2742.4	2723.9	2572.4	2092.9	1563.4	1181.5	1022.1	933.9	885.2	852.2	849.6
20°	2908.3	2878.0	2609.3	1946.8	1348.8	1041.9	910.2	836.4	799.5	770.6	765.3
22.5°	3140.1	3096.6	2654.1	1788.7	1197.3	945.8	827.2	773.2	742.9	709.9	704.7
25°	3427.3	3375.9	2709.4	1642.6	1093.3	862.7	766.6	721.8	686.2	648.0	644.1
27.5°	3829.0	3736.8	2775.3	1522.6	1003.7	791.6	711.2	661.2	620.4	588.8	582.2
30°	4276.8	4125.4	2833.2	1450.2	922.0	725.8	638.8	588.8	550.5	528.2	524.2
32.5°	4701.0	4495.5	2871.4	1418.6	848.3	650.7	559.8	505.8	476.8	470.3	474.2
35°	5101.4	4830.1	2867.4	1388.3	782.4	575.6	482.1	426.8	404.4	408.4	408.4
37.5°	5562.4	5187.0	2839.9	1340.9	728.4	507.1	414.9	366.1	346.4	347.8	353.0
40°	6098.5	5599.3	2822.7	1251.3	669.1	443.9	359.6	320.1	305.6	300.3	299.0
42.5°	6670.2	5998.4	2825.3	1149.8	595.3	387.2	321.4	288.4	275.3	271.3	270.0
45°	7244.4	6379.1	2829.3	1044.5	517.6	343.8	293.8	266.1	258.2	252.9	252.9
47.5°	7784.5	6703.1	2755.5	931.2	441.3	310.9	271.3	252.9	246.3	239.7	239.7
50°	8287.6	6919.1	2577.7	799.5	380.7	284.5	254.2	241.1	234.4	227.9	227.9
52.5°	8678.9	6953.4	2284.0	663.9	338.6	264.8	243.6	231.9	224.0	217.3	216.0
55°	8852.7	6738.7	1866.4	537.4	305.6	247.6	233.2	221.3	212.1	205.5	204.2
57.5°	8807.9	6286.8	1455.5	432.0	274.0	230.5	220.0	212.1	201.5	191.0	189.6
60°	8588.0	5682.3	1097.2	359.6	245.0	212.1	205.5	198.8	184.4	168.6	165.9
62.5°	8207.3	4922.3	782.4	297.7	213.4	191.0	188.4	183.1	162.1	133.0	130.4
65°	7625.1	3998.9	526.8	247.6	183.1	167.3	168.6	159.4	131.7	98.8	96.1
67.5°	6774.2	2924.1	337.2	202.8	152.8	139.6	140.9	135.7	111.9	84.3	80.4
70°	5690.2	1936.2	220.0	154.2	122.5	108.0	115.9	117.3	94.8	68.5	65.9
72.5°	4171.4	1143.3	154.2	114.6	89.6	75.0	94.8	97.5	76.4	51.4	48.7
75°	2377.5	542.6	115.9	83.0	55.4	52.7	73.8	73.8	52.7	34.2	31.6
77.5°	998.5	226.5	81.7	54.0	31.6	30.3	50.0	46.1	26.3	15.8	15.8
80°	288.4	101.4	43.5	26.3	13.2	11.9	19.8	14.5	6.6	2.7	2.7
82.5°	113.3	44.8	17.1	10.6	5.2	5.2	2.7	0.0	0.0	0.0	0.0
85°	67.1	18.4	7.9	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	4.0	2.7	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)