

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: P964722

Luminaire Tested: **NAV-SB3C-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15112.6 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 149.1
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



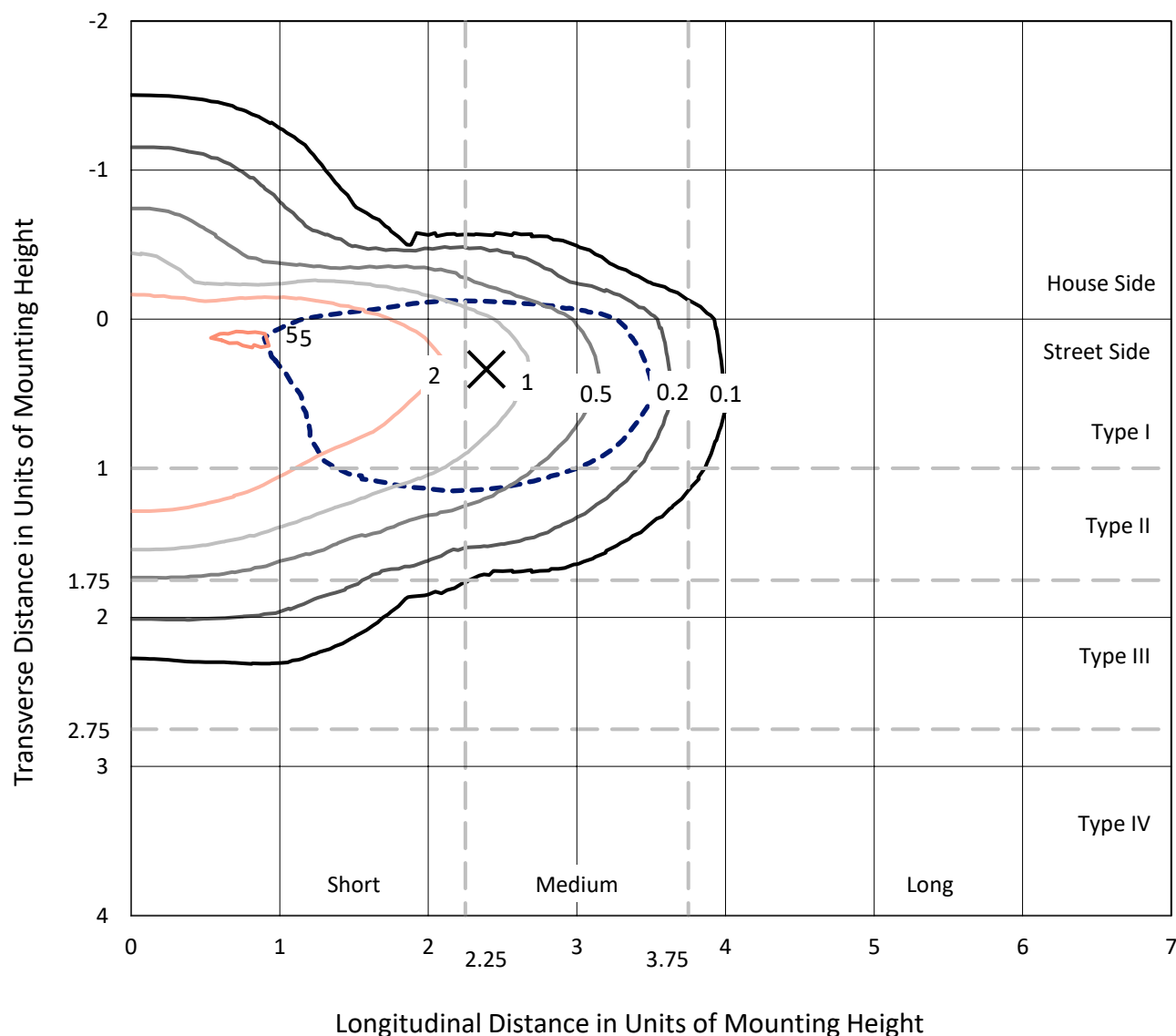
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

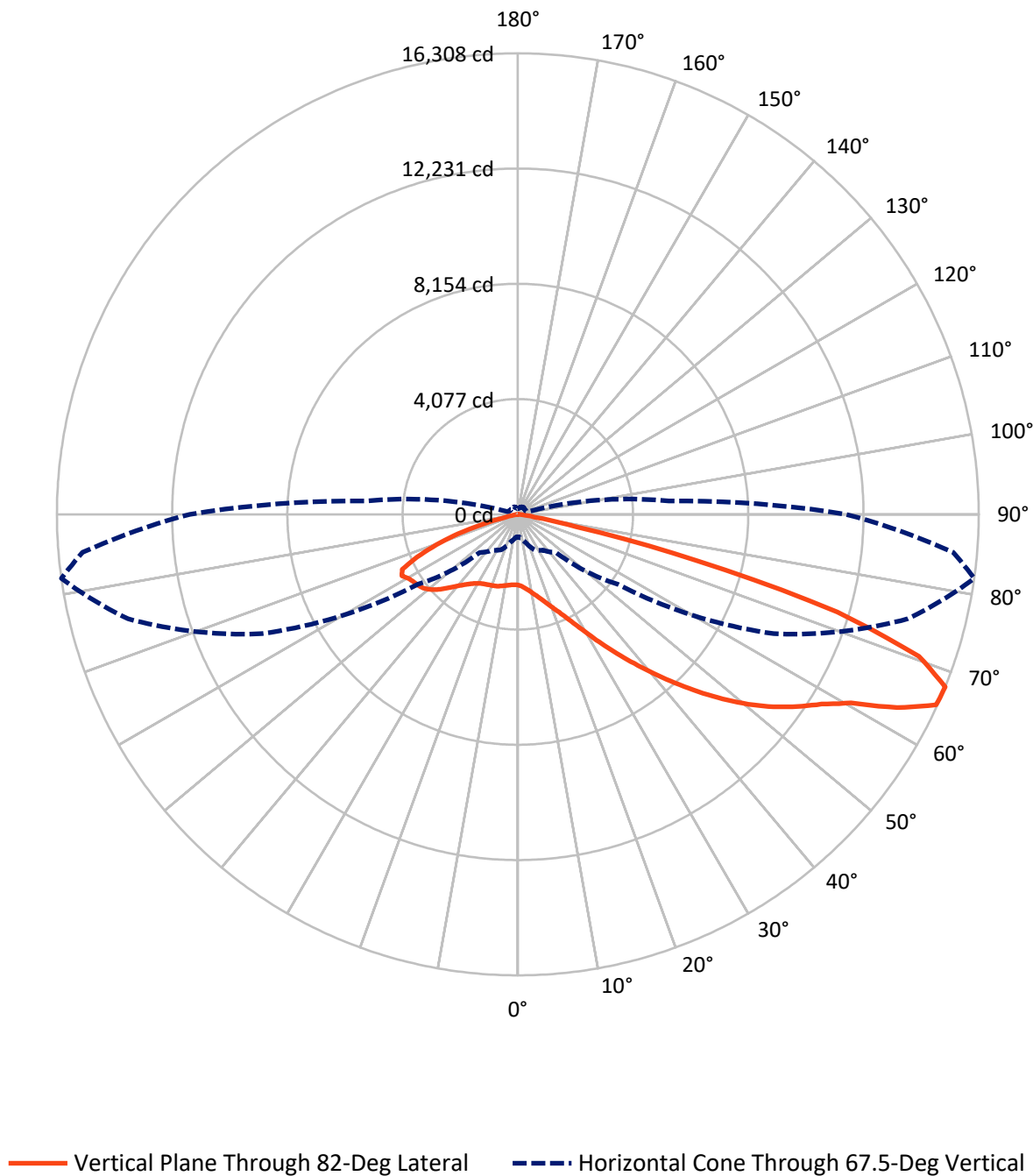


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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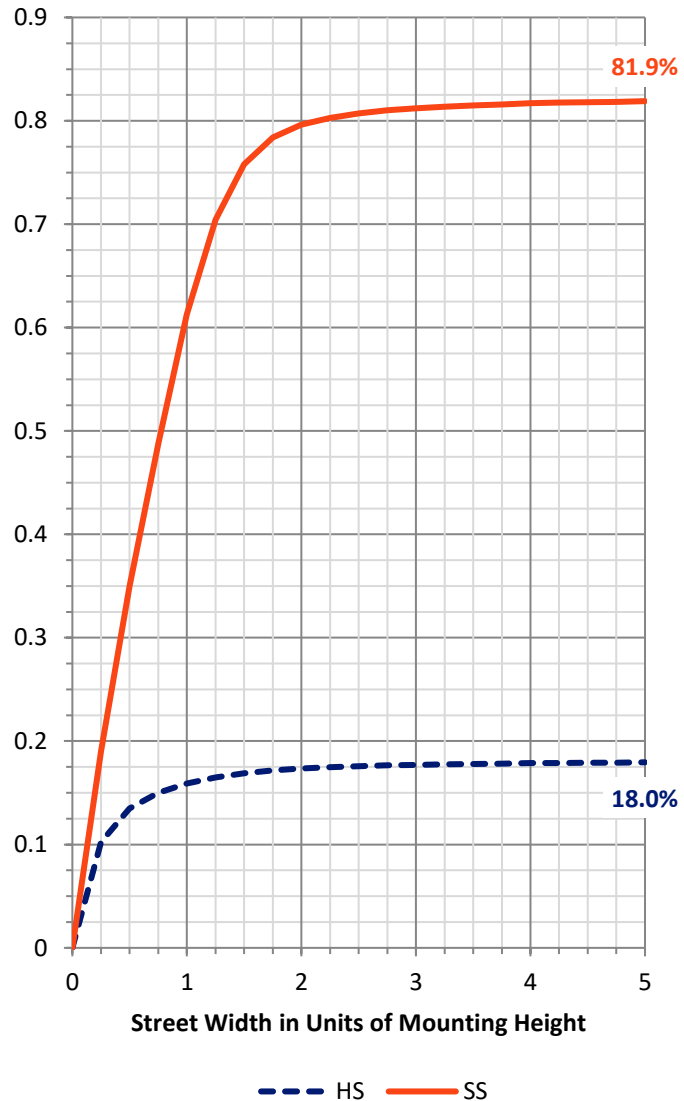
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2737.5	0.0	2737.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12375.1	0.0	12375.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	15112.6	0.0	15112.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	1.5
10°-20°	579.6	3.8
20°-30°	928.4	6.1
30°-40°	1641.7	10.9
40°-50°	2876.4	19.0
50°-60°	3836.3	25.4
60°-70°	3571.4	23.6
70°-80°	1370.7	9.1
80°-90°	85.1	0.6
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°	15112.6	100.0
0°-180°	15112.6	100.0

Coefficient of Utilization



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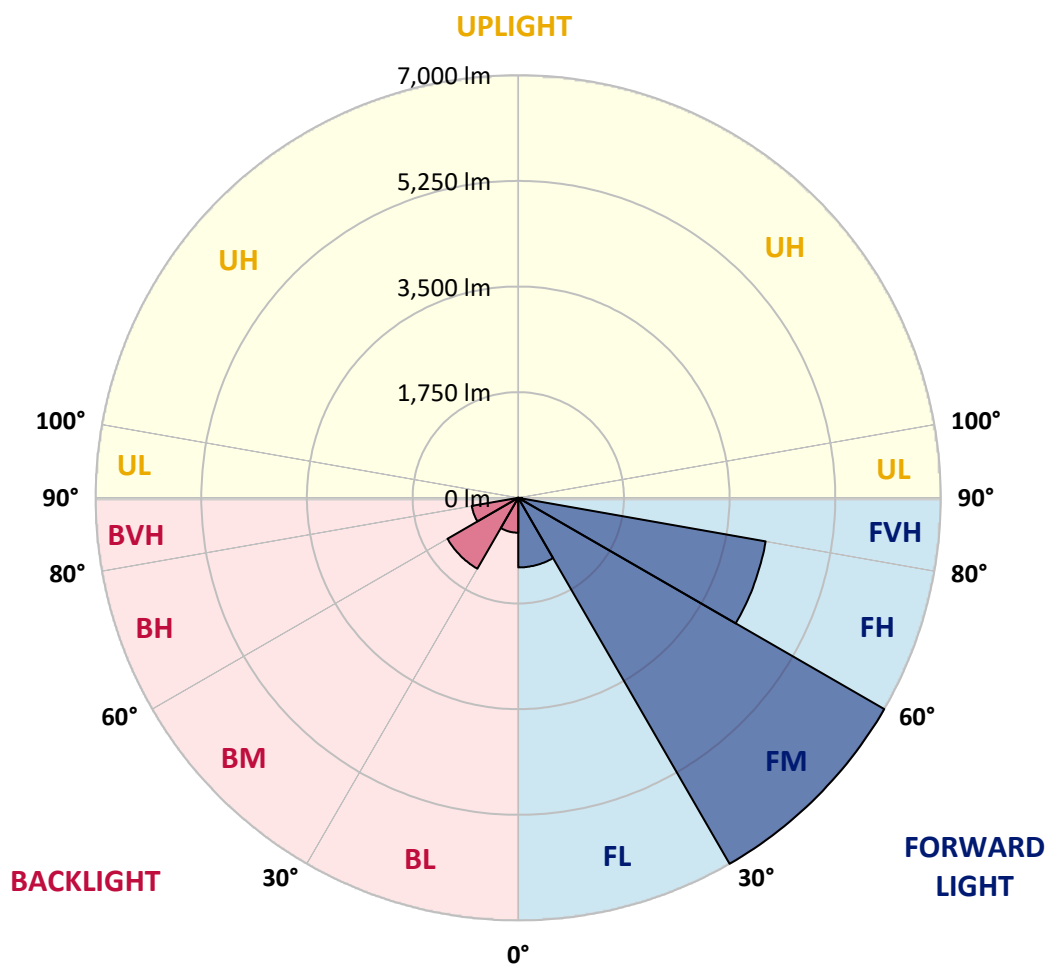
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1152.9	7.6			
FM	(30°-60°)	6999.5	46.3			
FH	(60°-80°)	4160.7	27.5			G2/5000
FVH	(80°-90°)	61.9	0.4			G1/100
BL	(0°-30°)	578.2	3.8	B2/1000		
BM	(30°-60°)	1354.8	9.0	B2/2500		
BH	(60°-80°)	781.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	23.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7
2.5°	2646.1	2661.4	2652.7	2648.4	2640.7	2629.8	2621.1	2594.0	2565.7	2547.1	2540.7
5°	2699.5	2714.7	2713.7	2718.0	2723.4	2726.7	2724.6	2694.0	2653.8	2622.3	2603.7
7.5°	2653.8	2671.3	2685.4	2707.1	2745.2	2785.4	2805.0	2798.6	2757.1	2713.7	2690.8
10°	2524.4	2542.8	2576.5	2627.7	2708.2	2795.3	2868.2	2901.9	2875.7	2827.9	2796.3
12.5°	2287.1	2305.6	2372.0	2483.0	2617.8	2769.1	2908.4	2998.7	3005.2	2957.3	2920.3
15°	2020.6	2039.0	2109.8	2249.1	2454.7	2697.3	2930.2	3101.0	3158.6	3117.3	3072.7
17.5°	1855.1	1871.4	1924.7	2036.9	2251.2	2553.7	2922.6	3209.8	3341.5	3308.8	3255.5
20°	1805.1	1819.3	1844.3	1922.6	2101.0	2404.6	2872.5	3312.1	3538.4	3520.0	3460.1
22.5°	1858.4	1871.4	1879.1	1913.9	2026.0	2306.7	2809.4	3416.5	3766.9	3769.0	3696.2
25°	1981.3	1994.4	1985.7	2007.5	2056.5	2276.2	2785.4	3539.5	4054.2	4078.1	3995.3
27.5°	2183.8	2184.9	2164.2	2163.1	2170.7	2321.9	2810.4	3671.1	4416.5	4461.1	4358.8
30°	2589.6	2573.3	2493.8	2407.9	2368.8	2459.1	2880.1	3826.7	4844.0	4923.5	4795.2
32.5°	3215.2	3191.3	3045.5	2839.9	2633.1	2679.9	3005.2	4004.1	5309.8	5453.4	5296.7
35°	3894.2	3887.6	3735.3	3429.5	3068.3	2994.3	3208.8	4236.9	5817.9	6046.4	5860.3
37.5°	4525.3	4522.0	4435.0	4074.8	3635.3	3432.8	3535.1	4541.6	6362.0	6692.7	6472.9
40°	5101.9	5111.8	5024.7	4702.6	4259.8	3995.3	3979.0	4918.1	6966.9	7396.7	7135.5
42.5°	5600.3	5611.2	5523.0	5284.8	4876.7	4617.7	4524.1	5379.4	7557.7	8152.8	7843.9
45°	5938.6	6006.1	5993.1	5802.6	5510.0	5241.2	5179.2	5958.2	8231.3	8954.8	8592.5
47.5°	6034.4	6096.5	6194.4	6220.5	6042.1	5777.6	5851.6	6655.7	8912.4	9757.8	9345.4
50°	5798.3	5856.0	6059.5	6330.4	6454.4	6372.8	6505.6	7403.3	9609.8	10558.6	10084.3
52.5°	5332.7	5391.4	5648.2	6076.8	6582.9	6839.6	7161.7	8139.8	10285.5	11317.0	10783.8
55°	4659.1	4721.2	5050.8	5536.1	6338.0	7032.2	7708.9	8875.4	10904.7	11999.3	11414.9
57.5°	3743.0	3788.6	4131.4	4810.3	5722.2	6840.6	8112.7	9678.4	11487.8	12669.5	12040.6
60°	2439.5	2479.7	2877.9	3635.3	4701.6	6200.9	8193.1	10573.9	12262.5	13541.0	12883.8
62.5°	1622.3	1649.5	1885.6	2441.7	3311.0	4972.5	7722.0	11288.7	13398.5	15057.8	14329.9
65°	1113.0	1140.3	1376.4	1763.7	2139.2	3289.2	6367.4	11194.0	14427.8	16262.2	15401.6
67.5°	794.3	817.1	1017.3	1382.9	1548.4	1910.6	4316.4	9984.1	14279.8	16308.0	15459.3
70°	569.1	582.1	747.5	1077.2	1230.6	1147.9	2400.2	7636.0	12502.9	15058.9	14282.0
72.5°	398.2	402.6	519.1	820.4	991.3	837.8	1142.5	5091.1	9456.4	11819.7	11072.2
75°	269.9	275.3	349.3	601.7	795.4	639.8	605.0	2730.0	5551.3	6542.6	5864.6
77.5°	165.4	167.6	225.2	411.3	595.2	487.5	389.5	1156.6	2147.9	2108.6	1797.4
80°	93.6	93.6	143.6	255.7	405.9	314.5	273.1	491.8	680.1	597.4	526.6
82.5°	52.3	53.3	104.4	158.9	268.8	186.0	150.2	227.4	293.8	260.0	226.3
85°	21.7	24.0	64.2	75.0	128.4	92.5	60.9	95.7	108.9	96.9	70.7
87.5°	2.2	3.3	19.6	14.1	15.3	18.4	8.7	18.4	15.3	15.3	10.9
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°	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7
2.5°	2520.0	2503.7	2462.3	2414.4	2351.4	2320.8	2279.5	2251.2	2227.3	2229.5	2207.6
5°	2569.0	2527.5	2435.1	2319.8	2176.2	2073.9	1965.0	1890.0	1829.0	1816.0	1786.6
7.5°	2636.4	2571.1	2409.0	2201.2	1958.6	1774.7	1610.4	1504.8	1429.8	1405.8	1381.8
10°	2723.4	2628.8	2375.2	2052.0	1702.8	1468.9	1292.6	1209.9	1158.8	1141.3	1128.3
12.5°	2824.6	2695.1	2330.6	1870.4	1439.5	1214.3	1102.2	1060.9	1044.6	1039.1	1035.9
15°	2951.9	2777.9	2263.2	1655.0	1216.5	1058.7	1010.9	1005.4	1007.6	1005.4	1004.3
17.5°	3103.2	2868.2	2153.3	1432.9	1066.3	979.3	961.9	966.2	971.6	970.6	968.4
20°	3268.5	2957.3	2012.9	1236.0	964.0	922.7	912.9	917.3	921.6	919.4	918.3
22.5°	3456.8	3053.2	1857.3	1082.6	895.4	870.4	859.6	860.7	860.7	856.3	854.1
25°	3682.0	3158.6	1694.1	973.9	843.3	823.7	810.6	806.3	799.7	786.7	784.5
27.5°	3950.8	3270.8	1537.4	897.7	801.9	783.4	768.1	757.3	741.0	719.2	717.0
30°	4253.2	3406.8	1404.7	849.8	769.3	750.8	733.4	717.0	693.1	665.9	663.7
32.5°	4609.0	3552.5	1307.9	818.3	739.8	720.3	699.7	680.1	653.9	626.7	627.8
35°	5033.4	3728.8	1251.3	796.4	717.0	691.0	668.1	646.3	626.7	602.8	600.6
37.5°	5493.7	3915.9	1233.9	785.6	701.8	661.5	635.4	620.2	618.0	603.8	602.8
40°	5997.5	4137.9	1246.9	779.1	685.5	633.2	605.0	601.7	607.1	582.1	583.2
42.5°	6530.6	4401.2	1268.6	771.4	662.7	605.0	577.8	577.8	573.4	538.6	538.6
45°	7107.2	4704.9	1290.5	753.0	635.4	576.7	556.0	548.4	529.9	496.2	495.1
47.5°	7688.3	5013.8	1306.8	719.2	602.8	552.8	534.2	516.8	489.6	459.2	458.1
50°	8240.0	5291.3	1289.3	669.1	565.8	529.9	510.3	486.4	456.9	436.3	433.1
52.5°	8732.8	5531.7	1215.3	610.4	526.6	505.9	488.5	463.5	439.6	417.8	415.6
55°	9161.6	5726.5	1084.8	554.9	491.8	485.2	467.9	436.3	403.6	385.2	383.0
57.5°	9572.8	5874.5	921.6	509.2	460.2	462.5	436.3	408.1	377.6	357.9	355.8
60°	10120.1	6072.5	756.2	466.8	426.5	433.1	404.8	384.1	346.0	321.0	317.8
62.5°	10995.0	6380.4	600.6	414.5	387.3	389.5	377.6	352.5	306.9	277.5	275.3
65°	11689.1	6267.3	473.3	357.9	342.8	346.0	346.0	318.8	269.9	236.2	232.9
67.5°	11610.8	5366.4	377.6	302.5	300.3	302.5	310.1	287.2	239.3	212.2	207.9
70°	10695.7	4268.5	302.5	251.3	261.2	255.7	277.5	262.2	215.5	188.2	185.0
72.5°	8727.4	3074.9	230.6	207.9	200.2	208.9	250.3	236.2	179.6	149.0	145.8
75°	5099.8	1640.8	171.9	164.3	144.7	174.0	222.0	201.3	137.1	109.9	106.6
77.5°	1660.4	572.4	126.2	120.7	107.7	140.3	189.3	169.7	112.0	87.0	83.7
80°	445.1	173.0	86.0	79.4	69.6	104.4	150.2	134.9	80.6	56.6	55.5
82.5°	178.5	72.9	50.0	44.6	38.1	71.9	118.6	108.9	59.9	35.9	35.9
85°	57.7	24.0	18.4	14.1	17.4	44.6	70.7	74.0	42.4	18.4	14.1
87.5°	7.6	3.3	3.3	4.3	3.3	7.6	21.7	20.7	12.0	2.2	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)