

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: P971047

Luminaire Tested: **NAV-SB6C-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971047
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: LUMARK
Catalog Number: NAV-SB6C-830-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 35414.8 lumens
Efficiency: N/A
Efficacy: 117.7 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): 300.9
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

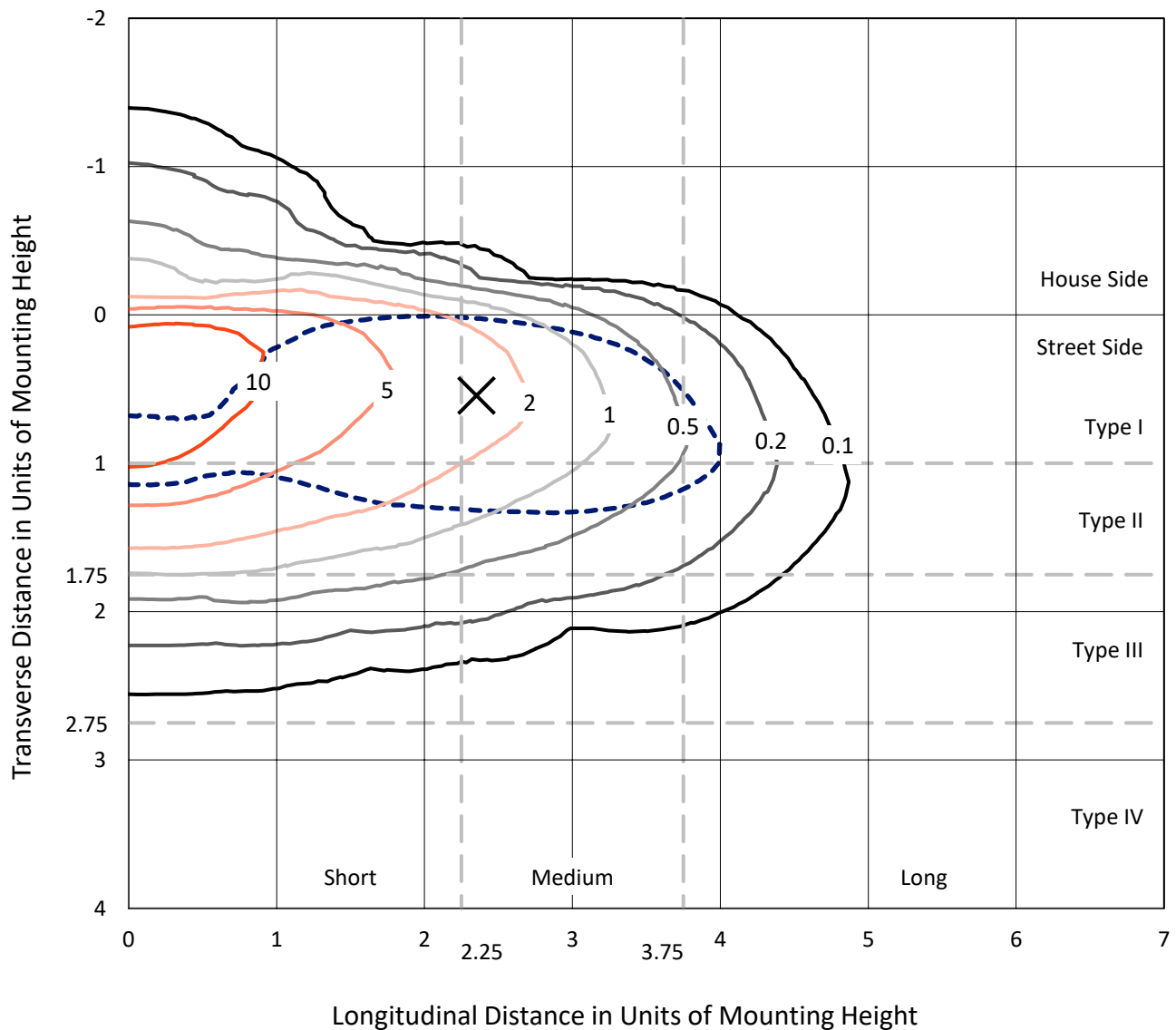


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Iso-Footcandle Lines of Horizontal Illumination

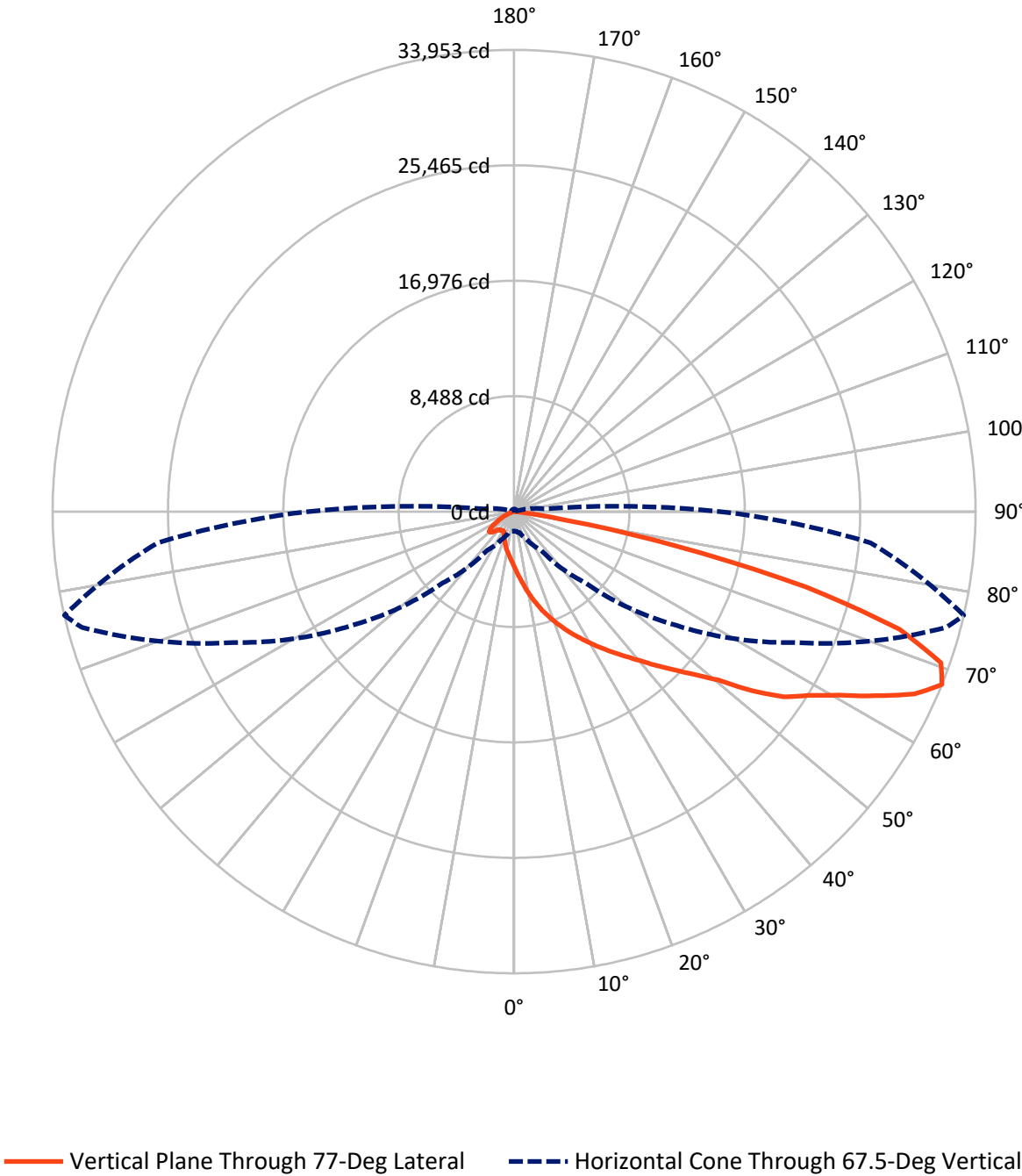
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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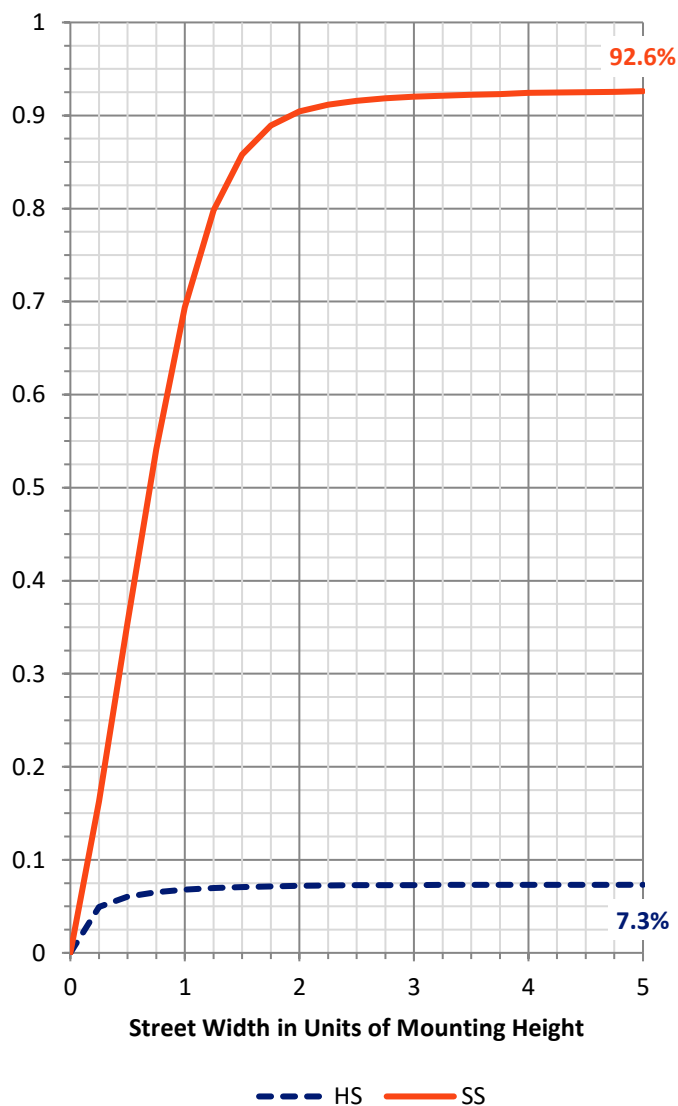
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2605.5	0.0	2605.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	32809.3	0.0	32809.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	35414.8	0.0	35414.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.8	1.2
10°-20°	1459.7	4.1
20°-30°	2816.8	8.0
30°-40°	4890.0	13.8
40°-50°	7100.1	20.0
50°-60°	8153.6	23.0
60°-70°	7078.8	20.0
70°-80°	3334.2	9.4
80°-90°	164.9	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°	35414.8	100.0
0°-180°	35414.8	100.0

Coefficient of Utilization



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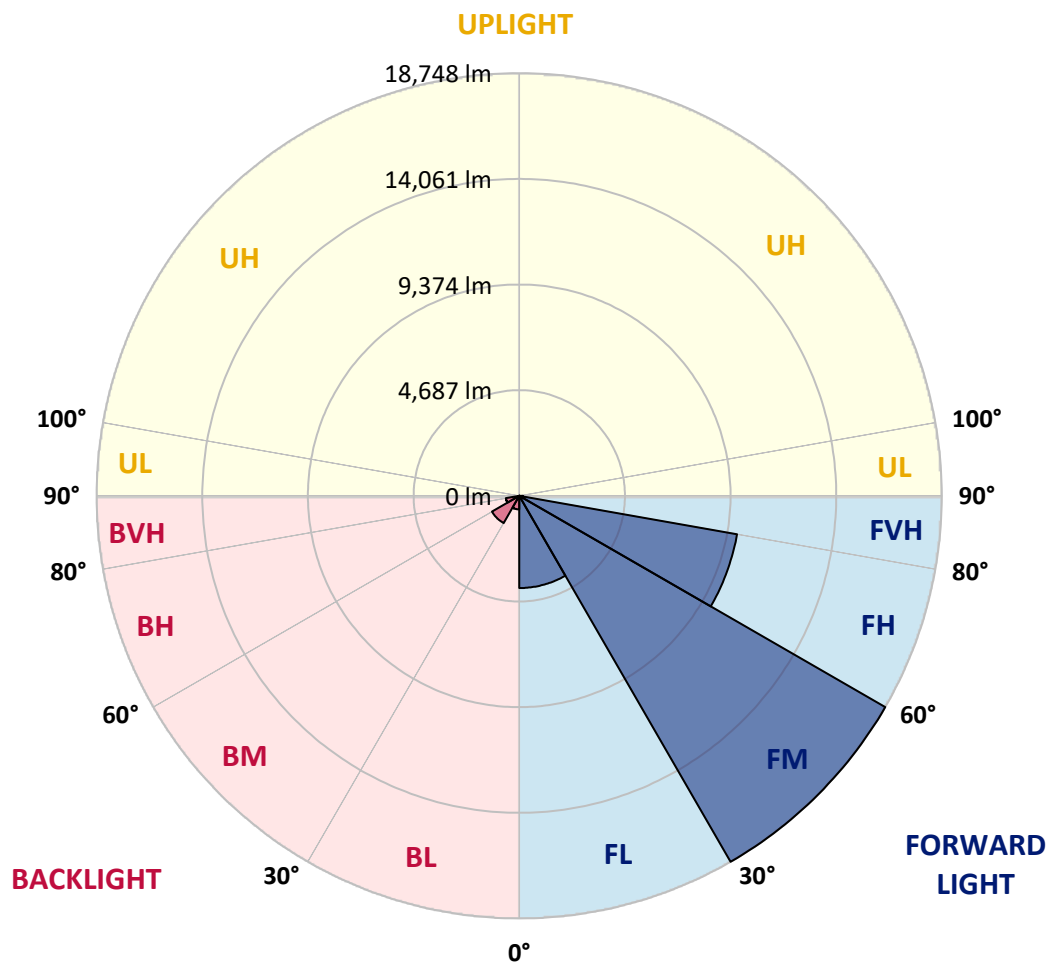
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4090.0	11.5			
FM	(30°-60°)	18747.6	52.9			
FH	(60°-80°)	9809.8	27.7			G4/12000
FVH	(80°-90°)	161.9	0.5			G2/225
BL	(0°-30°)	603.2	1.7	B2/1000		
BM	(30°-60°)	1396.1	3.9	B2/2500		
BH	(60°-80°)	603.2	1.7	B2/1000		G2/1000
BVH	(80°-90°)	3.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8
2.5°	5654.0	5689.3	5638.6	5541.9	5396.7	5302.2	5071.3	4853.6	4611.7	4534.7	4292.8
5°	6892.2	6923.0	6865.8	6760.2	6566.7	6382.0	6078.5	5623.3	5150.4	4998.7	4569.9
7.5°	7809.3	7826.8	7804.9	7708.1	7523.3	7314.4	6975.7	6436.9	5735.4	5568.3	4910.8
10°	8469.0	8526.2	8519.6	8482.2	8359.0	8189.6	7829.1	7215.5	6390.8	6175.2	5295.6
12.5°	8906.6	8970.4	9007.8	9091.3	9084.8	8976.9	8660.3	8011.5	7043.9	6791.0	5728.8
15°	9034.1	9102.3	9245.3	9438.8	9610.3	9665.3	9443.2	8792.2	7763.0	7439.8	6173.1
17.5°	8961.6	9067.2	9238.6	9544.4	9920.5	10168.9	10144.7	9546.5	8416.2	8046.8	6608.5
20°	9122.1	9223.3	9357.4	9614.7	10052.4	10503.2	10683.6	10267.9	9065.0	8677.9	7065.9
22.5°	10010.6	9993.0	10006.2	10048.0	10309.7	10756.1	11127.8	10923.2	9707.1	9311.2	7549.7
25°	11418.1	11338.9	11204.7	10978.3	10912.3	11127.8	11514.8	11503.8	10384.5	9960.0	8044.5
27.5°	13032.3	13019.0	12704.6	12159.2	11851.3	11767.7	11952.4	12069.0	11055.1	10602.2	8541.5
30°	14578.3	14613.4	14189.0	13582.1	13016.9	12689.2	12522.0	12605.6	11737.0	11294.9	9053.9
32.5°	15924.1	15961.5	15499.7	14789.3	14090.1	13694.2	13342.3	13135.6	12480.2	11998.6	9617.0
35°	17061.1	17098.4	16568.5	15783.4	15037.9	14679.4	14281.3	13716.1	13227.9	12779.3	10243.7
37.5°	18077.1	18066.1	17355.8	16564.1	15831.7	15548.1	15339.1	14430.9	13997.7	13564.4	10938.6
40°	18677.4	18723.7	18116.7	17243.7	16533.2	16326.6	16313.4	15317.2	14886.2	14466.1	11699.6
42.5°	18853.4	18934.8	18495.0	17778.0	17133.7	16909.3	17254.6	16276.0	15919.7	15510.7	12559.4
45°	18536.7	18615.9	18415.8	17918.7	17542.7	17397.5	18063.9	17270.0	17023.7	16619.0	13529.3
47.5°	17613.1	17712.1	17760.5	17654.9	17650.5	17797.8	18789.7	18316.9	18334.4	17921.0	14653.0
50°	15825.2	15992.4	16436.5	16810.4	17388.8	18114.5	19495.6	19451.6	19812.2	19456.0	16117.6
52.5°	12574.8	12812.3	14342.9	15365.6	16665.3	18055.2	20271.8	21272.5	22405.1	21883.9	18182.7
55°	10105.2	10105.2	11349.8	13263.2	15253.4	17663.6	20610.6	22455.6	24171.0	24047.8	19636.3
57.5°	8238.0	8337.0	9130.9	10822.1	13210.4	16731.2	20819.5	23198.9	25593.8	25503.6	21057.0
60°	5084.5	5297.8	6797.6	8466.8	10885.8	15070.9	20687.5	23951.1	27320.1	27392.7	22767.9
62.5°	2863.3	2942.5	3611.1	6091.7	8464.6	12838.7	19678.1	24371.1	29528.2	29836.0	24531.6
65°	1977.0	2016.6	2274.0	3791.4	5867.4	10221.7	17705.4	24109.4	31740.5	32362.8	26027.1
67.5°	1436.0	1455.8	1616.4	2315.7	3481.3	7411.2	14613.4	22790.0	32912.6	33952.8	26313.0
70°	1104.0	1117.1	1233.7	1521.8	2056.3	4574.3	10613.2	20166.4	32063.7	33306.4	24848.4
72.5°	897.3	910.4	1000.6	1126.0	1363.5	2705.0	6432.6	16377.1	28316.4	29657.9	21153.7
75°	756.6	774.1	855.5	936.8	1068.8	1737.4	3017.3	11404.9	21294.5	22174.1	14710.2
77.5°	420.0	387.0	694.9	776.3	901.7	1099.6	1411.8	6711.8	11926.1	12170.1	6527.1
80°	261.7	270.5	552.0	624.5	692.7	554.2	646.6	2584.0	4134.4	3927.7	1264.5
82.5°	15.4	35.2	424.5	450.8	475.0	237.5	244.2	877.5	996.2	914.8	224.3
85°	0.0	0.0	193.5	156.1	164.9	68.2	70.4	204.5	134.2	145.1	44.0
87.5°	0.0	0.0	0.0	4.4	0.0	6.6	13.2	17.6	6.6	8.8	15.4
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°	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8	4083.8
2.5°	4138.8	3984.9	3672.6	3366.9	3118.5	2887.5	2722.6	2566.4	2487.3	2482.9	2478.4
5°	4264.2	3940.9	3316.4	2764.3	2320.1	1963.9	1733.0	1568.0	1484.4	1455.8	1451.4
7.5°	4440.1	3954.1	3004.1	2236.5	1713.2	1407.4	1275.5	1222.7	1205.1	1185.3	1180.9
10°	4662.2	3984.9	2724.8	1801.1	1350.3	1196.4	1143.6	1121.6	1108.3	1095.2	1090.8
12.5°	4910.8	4013.5	2447.7	1495.5	1187.6	1108.3	1071.0	1044.6	1027.0	1011.6	1007.3
15°	5152.7	4031.0	2159.6	1282.1	1104.0	1040.2	1000.6	972.0	947.8	930.3	928.0
17.5°	5392.3	4055.2	1889.1	1154.6	1035.8	972.0	932.4	897.3	877.5	857.7	855.5
20°	5658.4	4050.9	1634.0	1064.4	967.6	903.8	862.0	829.1	809.3	787.3	785.2
22.5°	5904.7	4028.9	1409.7	987.4	897.3	835.7	789.5	756.6	736.8	719.1	716.9
25°	6188.4	4011.2	1222.7	917.1	831.3	769.7	719.1	688.3	666.4	651.0	648.7
27.5°	6461.1	3984.9	1086.4	853.3	767.5	708.2	659.8	624.5	604.8	593.8	593.8
30°	6729.4	3978.3	1035.8	791.7	710.3	651.0	602.6	569.6	554.2	549.8	547.6
32.5°	7052.7	3995.9	1057.8	769.7	657.5	598.2	552.0	527.8	512.4	512.4	512.4
35°	7397.9	3991.5	1090.8	789.5	622.4	545.4	510.2	494.8	479.4	479.4	479.4
37.5°	7831.2	3998.1	1117.1	822.5	609.2	501.4	481.6	461.9	453.0	453.0	453.0
40°	8477.8	4215.8	1104.0	851.1	604.8	470.6	431.0	424.5	417.8	417.8	417.8
42.5°	9269.5	4688.7	1121.6	853.3	602.6	448.6	395.9	409.1	393.6	391.4	389.3
45°	10135.9	5205.5	1233.7	807.1	600.3	437.7	378.2	393.6	369.4	369.4	369.4
47.5°	10995.8	5717.9	1348.1	741.1	593.8	435.4	362.8	354.0	347.5	349.6	349.6
50°	12181.2	6135.6	1392.1	651.0	578.4	431.0	334.3	336.5	332.1	336.5	336.5
52.5°	13472.1	6223.6	1339.3	549.8	534.4	417.8	314.5	323.3	321.0	325.4	325.4
55°	14276.9	6129.1	1106.2	457.5	466.3	365.1	294.7	312.3	312.3	312.3	312.3
57.5°	15108.3	5726.6	785.2	371.7	387.0	299.1	277.1	301.2	299.1	296.8	296.8
60°	15706.4	5075.7	516.8	305.7	307.9	246.3	257.3	283.7	281.5	270.5	270.5
62.5°	16152.9	4356.6	332.1	259.5	235.3	222.1	235.3	257.3	248.5	224.3	220.0
65°	16102.2	3360.4	255.1	222.1	193.5	193.5	204.5	224.3	197.9	158.4	154.0
67.5°	15163.2	2274.0	211.2	187.0	162.8	160.5	169.3	187.0	169.3	134.2	129.8
70°	13485.3	1486.7	169.3	145.1	129.8	118.8	136.3	160.5	143.0	107.7	103.3
72.5°	10945.3	906.1	127.5	105.6	94.6	77.0	107.7	131.9	114.4	79.1	74.7
75°	7081.3	461.9	87.9	68.2	50.5	46.2	79.1	98.9	79.1	48.4	41.8
77.5°	2709.4	193.5	48.4	30.7	26.3	22.0	44.0	59.3	33.0	11.0	8.8
80°	521.2	81.4	24.2	15.4	13.2	8.8	6.6	4.4	0.0	0.0	0.0
82.5°	90.2	26.3	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	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)