

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: P969962

Luminaire Tested: **NAV-SB6A-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969962
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-SB6A-827-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA 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: 20527.7 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - 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



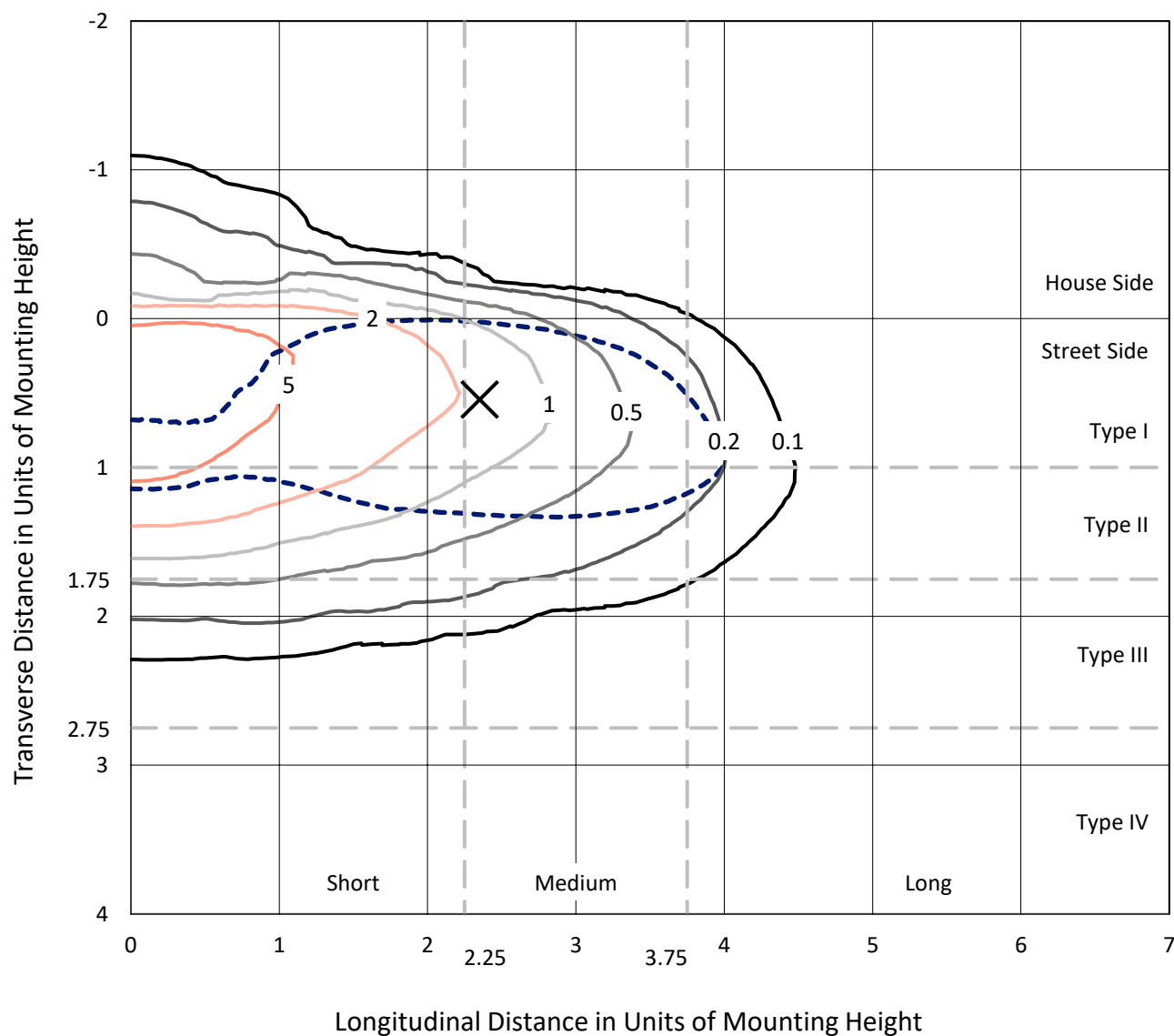
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

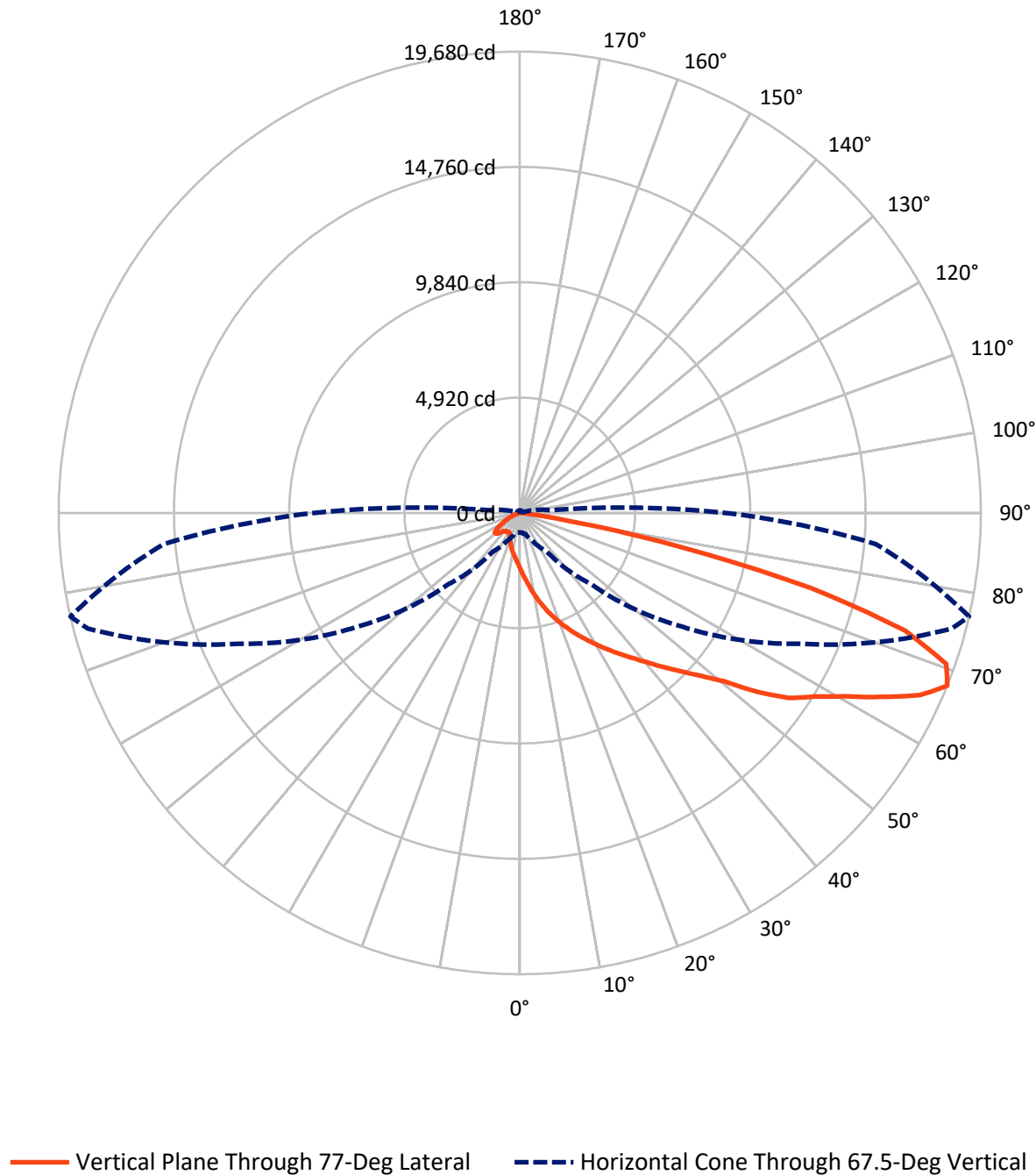
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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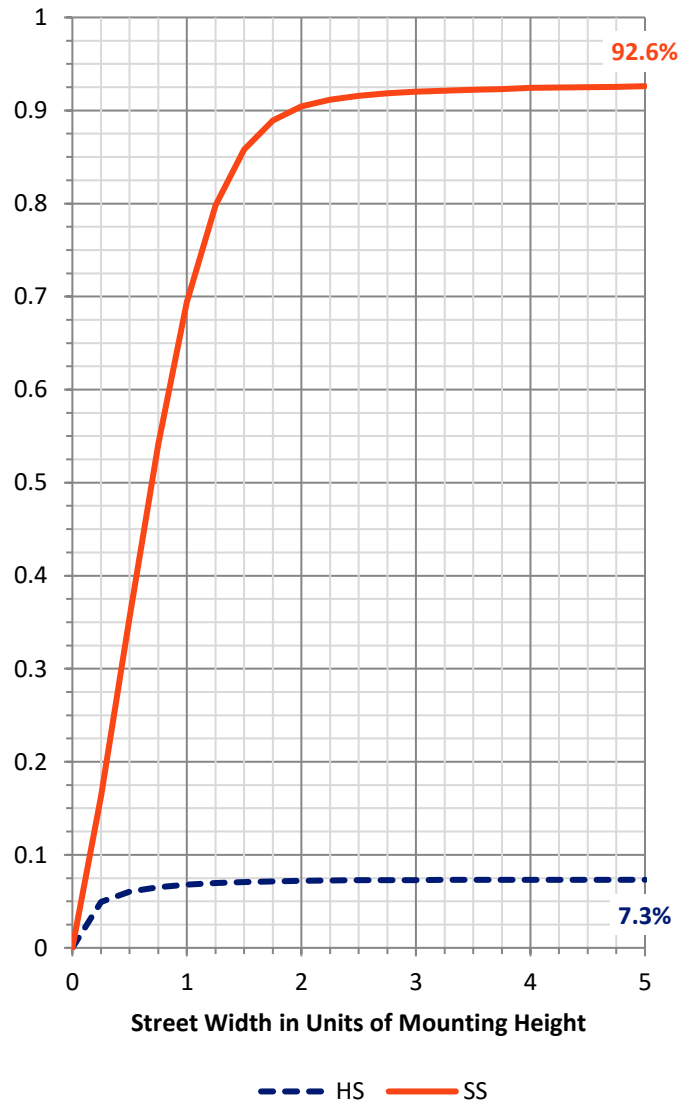
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1510.2	0.0	1510.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	19017.4	0.0	19017.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	20527.7	0.0	20527.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.2
10°-20°	846.1	4.1
20°-30°	1632.7	8.0
30°-40°	2834.4	13.8
40°-50°	4115.5	20.0
50°-60°	4726.1	23.0
60°-70°	4103.1	20.0
70°-80°	1932.6	9.4
80°-90°	95.6	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°	20527.7	100.0
0°-180°	20527.7	100.0

Coefficient of Utilization



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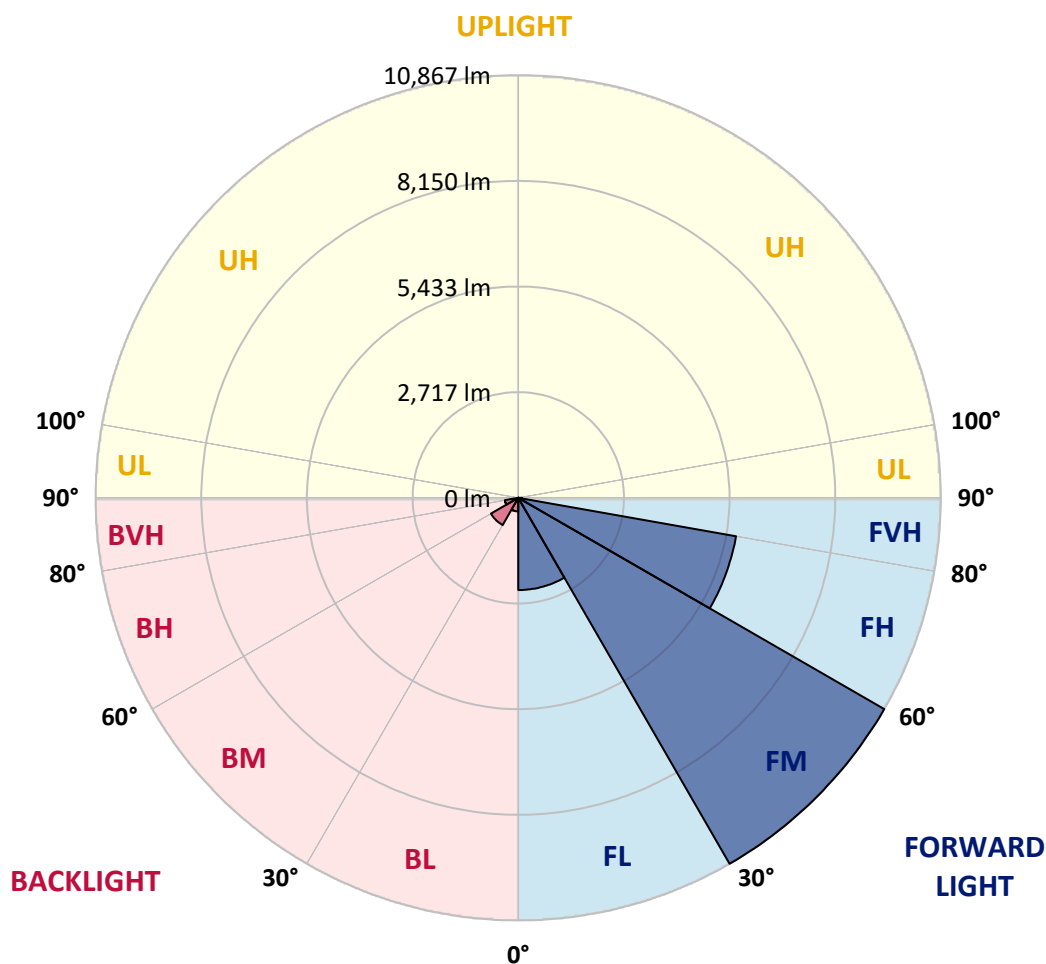
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2370.7	11.5			
FM	(30°-60°)	10866.8	52.9			
FH	(60°-80°)	5686.1	27.7			G3/7500
FVH	(80°-90°)	93.8	0.5			G1/100
BL	(0°-30°)	349.6	1.7	B1/500		
BM	(30°-60°)	809.2	3.9	B1/1000		
BH	(60°-80°)	349.6	1.7	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1
2.5°	3277.3	3297.7	3268.3	3212.2	3128.2	3073.4	2939.5	2813.3	2673.1	2628.5	2488.3
5°	3994.9	4012.8	3979.7	3918.5	3806.3	3699.2	3523.3	3259.4	2985.4	2897.5	2648.8
7.5°	4526.5	4536.8	4523.9	4467.9	4360.8	4239.7	4043.4	3731.1	3324.5	3227.6	2846.4
10°	4908.9	4942.0	4938.2	4916.6	4845.2	4747.1	4538.0	4182.3	3704.3	3579.4	3069.5
12.5°	5162.6	5199.5	5221.2	5269.6	5265.8	5203.4	5019.8	4643.8	4082.9	3936.3	3320.6
15°	5236.5	5276.1	5358.9	5471.0	5570.5	5602.3	5473.6	5096.3	4499.8	4312.4	3578.1
17.5°	5194.5	5255.7	5355.1	5532.2	5750.2	5894.3	5880.2	5533.6	4878.3	4664.2	3830.5
20°	5287.5	5346.2	5423.9	5573.0	5826.7	6088.0	6192.5	5951.7	5254.4	5030.0	4095.7
22.5°	5802.5	5792.3	5800.0	5824.2	5975.9	6234.7	6450.0	6331.5	5626.6	5397.1	4376.1
25°	6618.3	6572.4	6494.7	6363.4	6325.2	6450.0	6674.4	6668.0	6019.2	5773.2	4662.9
27.5°	7553.9	7546.3	7364.0	7047.9	6869.4	6821.0	6928.1	6995.6	6408.0	6145.4	4951.0
30°	8450.1	8470.5	8224.5	7872.6	7545.0	7355.1	7258.2	7306.6	6803.1	6546.9	5248.0
32.5°	9230.2	9251.9	8984.2	8572.5	8167.1	7937.6	7733.7	7613.9	7234.0	6954.8	5574.4
35°	9889.2	9910.9	9603.7	9148.6	8716.5	8508.7	8278.0	7950.4	7667.4	7407.4	5937.6
37.5°	10478.2	10471.8	10060.1	9601.2	9176.6	9012.2	8891.2	8364.7	8113.6	7862.5	6340.4
40°	10826.2	10852.9	10501.1	9995.0	9583.3	9463.5	9455.8	8878.3	8628.6	8385.1	6781.5
42.5°	10928.1	10975.3	10720.4	10304.7	9931.3	9801.3	10001.4	9434.2	9227.7	8990.6	7279.9
45°	10744.6	10790.5	10674.5	10386.3	10168.4	10084.3	10470.5	10010.4	9867.6	9633.1	7842.1
47.5°	10209.2	10266.5	10294.6	10233.4	10230.8	10316.2	10891.1	10617.1	10627.3	10387.7	8493.5
50°	9172.8	9269.7	9527.2	9744.0	10079.1	10499.8	11300.3	11274.8	11483.9	11277.4	9342.4
52.5°	7288.8	7426.4	8313.7	8906.4	9659.8	10465.4	11750.3	12330.3	12986.7	12684.7	10539.4
55°	5857.3	5857.3	6578.8	7687.8	8841.4	10238.5	11946.6	13016.1	14010.4	13939.0	11381.9
57.5°	4775.1	4832.5	5292.6	6272.9	7657.2	9698.0	12067.7	13447.0	14835.1	14782.9	12205.4
60°	2947.2	3070.8	3940.1	4907.6	6309.8	8735.6	11991.3	13882.9	15835.7	15877.9	13197.1
62.5°	1659.7	1705.6	2093.0	3530.9	4906.4	7441.8	11406.1	14126.3	17115.6	17294.0	14219.4
65°	1145.9	1168.9	1318.0	2197.6	3401.0	5924.9	10262.7	13974.6	18397.9	18758.7	15086.3
67.5°	832.4	843.9	937.0	1342.2	2017.9	4295.8	8470.5	13209.9	19077.4	19680.3	15251.9
70°	639.9	647.6	715.1	882.1	1191.9	2651.4	6151.7	11689.1	18585.3	19305.6	14403.0
72.5°	520.1	527.8	579.9	652.6	790.3	1567.9	3728.5	9492.8	16413.2	17190.8	12261.5
75°	438.5	448.7	495.9	543.0	619.5	1007.1	1749.0	6610.6	12343.0	12852.9	8526.6
77.5°	243.4	224.4	402.8	450.0	522.6	637.3	818.4	3890.4	6912.8	7054.3	3783.4
80°	151.7	156.8	319.9	362.0	401.5	321.2	374.7	1497.8	2396.4	2276.6	733.0
82.5°	8.9	20.4	246.0	261.3	275.3	137.7	141.4	508.6	577.5	530.2	130.0
85°	0.0	0.0	112.1	90.5	95.6	39.6	40.8	118.6	77.8	84.2	25.5
87.5°	0.0	0.0	0.0	2.6	0.0	3.8	7.7	10.1	3.8	5.1	8.9
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°	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1
2.5°	2399.0	2309.7	2128.8	1951.6	1807.6	1673.7	1578.1	1487.6	1441.7	1439.2	1436.6
5°	2471.7	2284.3	1922.3	1602.3	1344.8	1138.4	1004.5	908.9	860.4	843.9	841.3
7.5°	2573.7	2291.9	1741.3	1296.4	993.0	815.8	739.3	708.8	698.5	687.1	684.5
10°	2702.4	2309.7	1579.3	1044.0	782.7	693.4	662.9	650.1	642.5	634.8	632.2
12.5°	2846.4	2326.3	1418.8	866.8	688.4	642.5	620.7	605.5	595.3	586.4	583.8
15°	2986.6	2336.6	1251.7	743.1	639.9	602.9	579.9	563.4	549.4	539.3	537.9
17.5°	3125.6	2350.5	1095.0	669.2	600.3	563.4	540.5	520.1	508.6	497.1	495.9
20°	3279.8	2348.1	947.1	616.9	560.9	523.9	499.7	480.5	469.1	456.3	455.1
22.5°	3422.6	2335.3	817.1	572.4	520.1	484.4	457.7	438.5	427.0	416.9	415.5
25°	3587.1	2325.1	708.8	531.6	481.9	446.2	416.9	399.0	386.2	377.3	376.1
27.5°	3745.1	2309.7	629.7	494.6	444.8	410.4	382.4	362.0	350.5	344.2	344.2
30°	3900.6	2305.9	600.3	458.9	411.7	377.3	349.3	330.2	321.2	318.7	317.4
32.5°	4088.0	2316.2	613.2	446.2	381.1	346.8	319.9	306.0	297.0	297.0	297.0
35°	4288.1	2313.6	632.2	457.7	360.7	316.1	295.7	286.8	277.9	277.9	277.9
37.5°	4539.2	2317.4	647.6	476.7	353.1	290.6	279.2	267.7	262.6	262.6	262.6
40°	4914.1	2443.6	639.9	493.3	350.5	272.8	249.9	246.0	242.2	242.2	242.2
42.5°	5372.9	2717.7	650.1	494.6	349.3	260.0	229.5	237.1	228.2	226.9	225.6
45°	5875.2	3017.3	715.1	467.8	348.0	253.7	219.2	228.2	214.1	214.1	214.1
47.5°	6373.6	3314.2	781.4	429.6	344.2	252.4	210.3	205.2	201.4	202.6	202.6
50°	7060.6	3556.4	806.9	377.3	335.3	249.9	193.7	195.1	192.5	195.1	195.1
52.5°	7808.9	3607.5	776.3	318.7	309.8	242.2	182.2	187.4	186.1	188.7	188.7
55°	8275.4	3552.6	641.1	265.2	270.2	211.6	170.8	181.0	181.0	181.0	181.0
57.5°	8757.3	3319.4	455.1	215.5	224.4	173.3	160.6	174.7	173.3	172.1	172.1
60°	9104.0	2942.1	299.6	177.2	178.5	142.8	149.1	164.4	163.2	156.8	156.8
62.5°	9362.8	2525.2	192.5	150.4	136.4	128.7	136.4	149.1	144.0	130.0	127.5
65°	9333.4	1947.8	147.9	128.7	112.1	112.1	118.6	130.0	114.7	91.7	89.3
67.5°	8789.2	1318.0	122.4	108.3	94.3	93.1	98.2	108.3	98.2	77.8	75.2
70°	7816.5	861.7	98.2	84.2	75.2	68.9	79.0	93.1	82.8	62.4	60.0
72.5°	6344.2	525.2	73.9	61.2	54.8	44.6	62.4	76.5	66.3	45.9	43.4
75°	4104.6	267.7	50.9	39.6	29.3	26.8	45.9	57.4	45.9	28.1	24.2
77.5°	1570.4	112.1	28.1	17.8	15.3	12.7	25.5	34.4	19.2	6.4	5.1
80°	302.1	47.2	14.0	8.9	7.7	5.1	3.8	2.6	0.0	0.0	0.0
82.5°	52.3	15.3	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	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)