

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: P971565

Luminaire Tested: **NAV-SB6D-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55545.8 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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

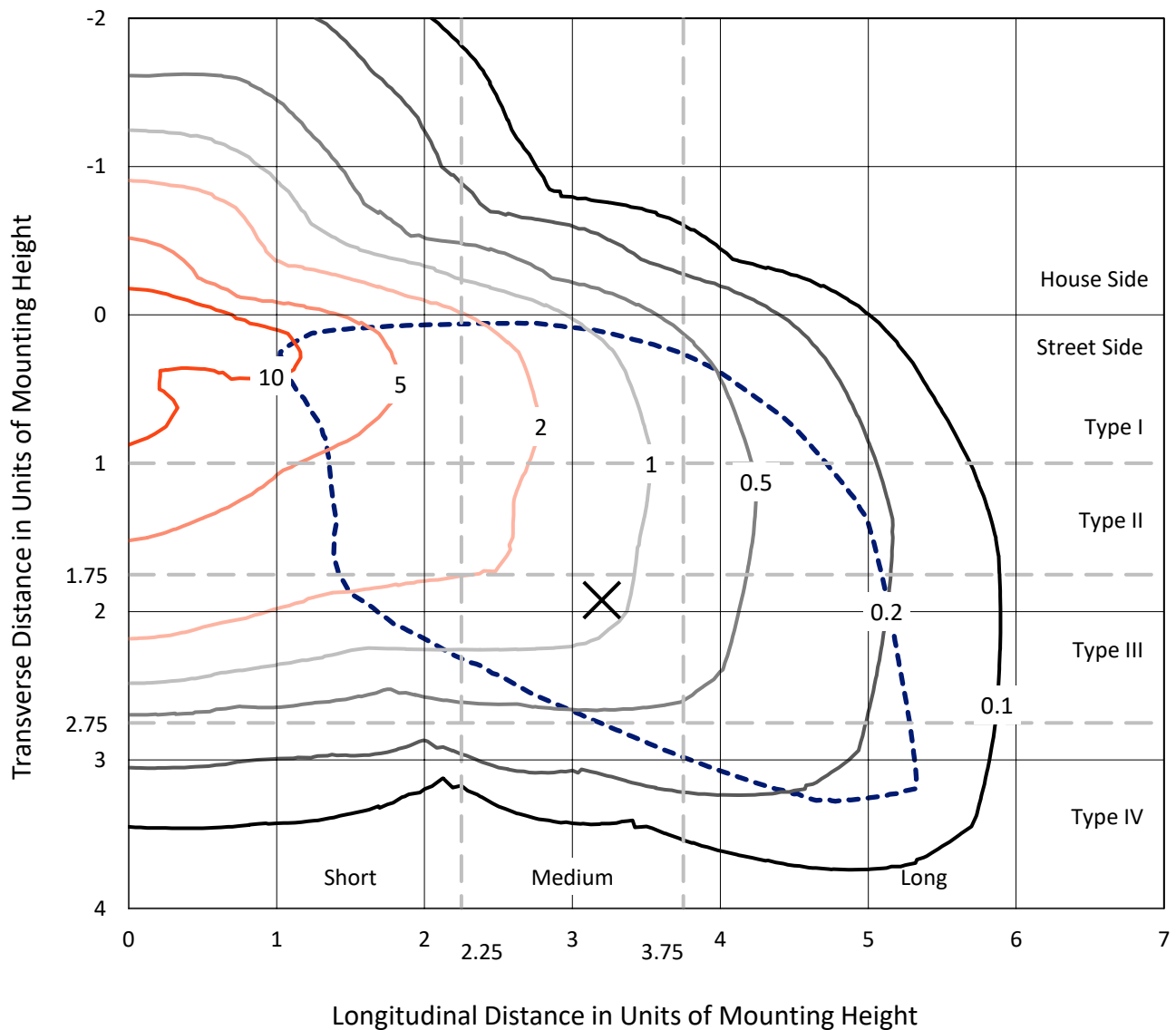


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Iso-Footcandle Lines of Horizontal Illumination

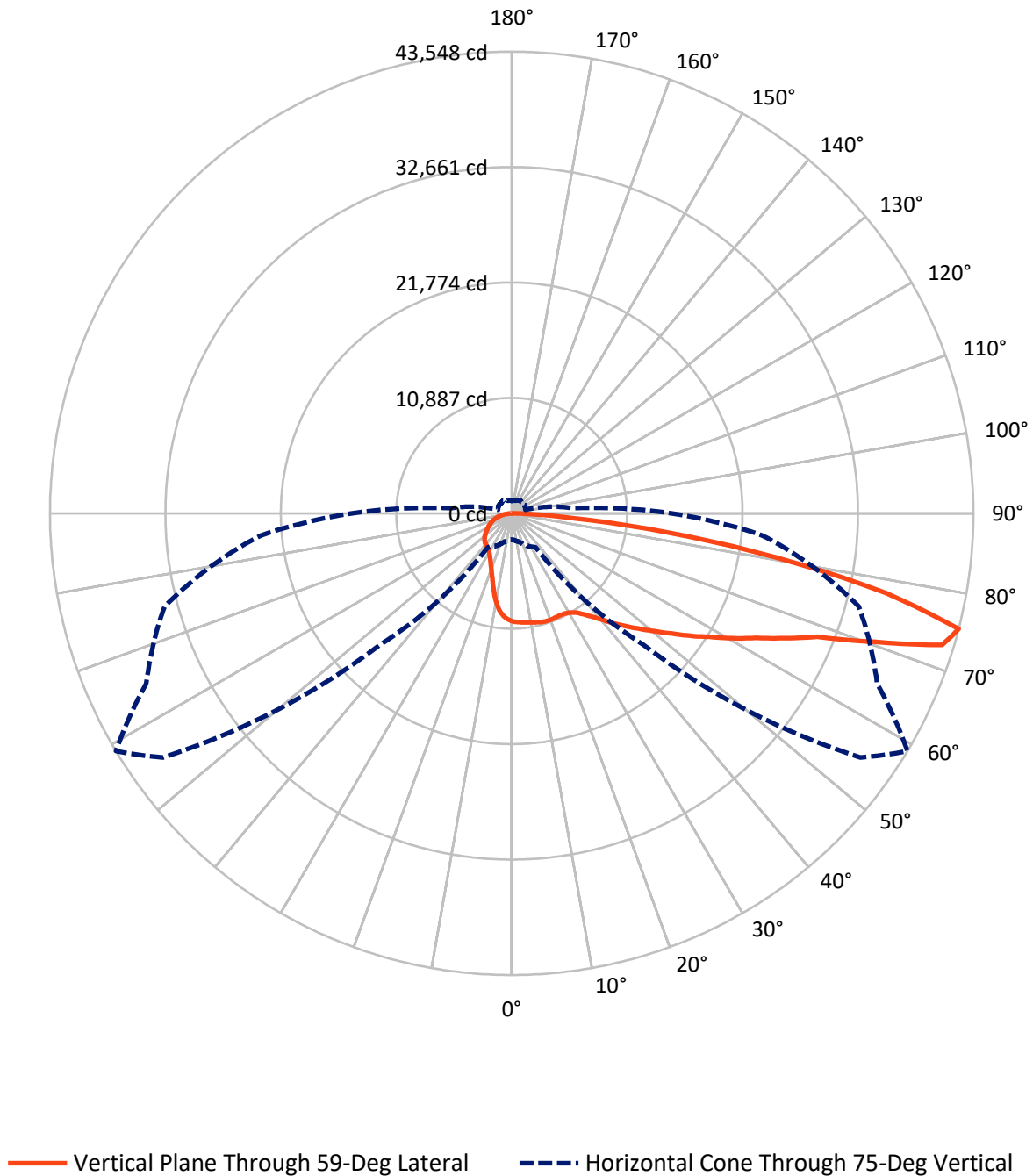
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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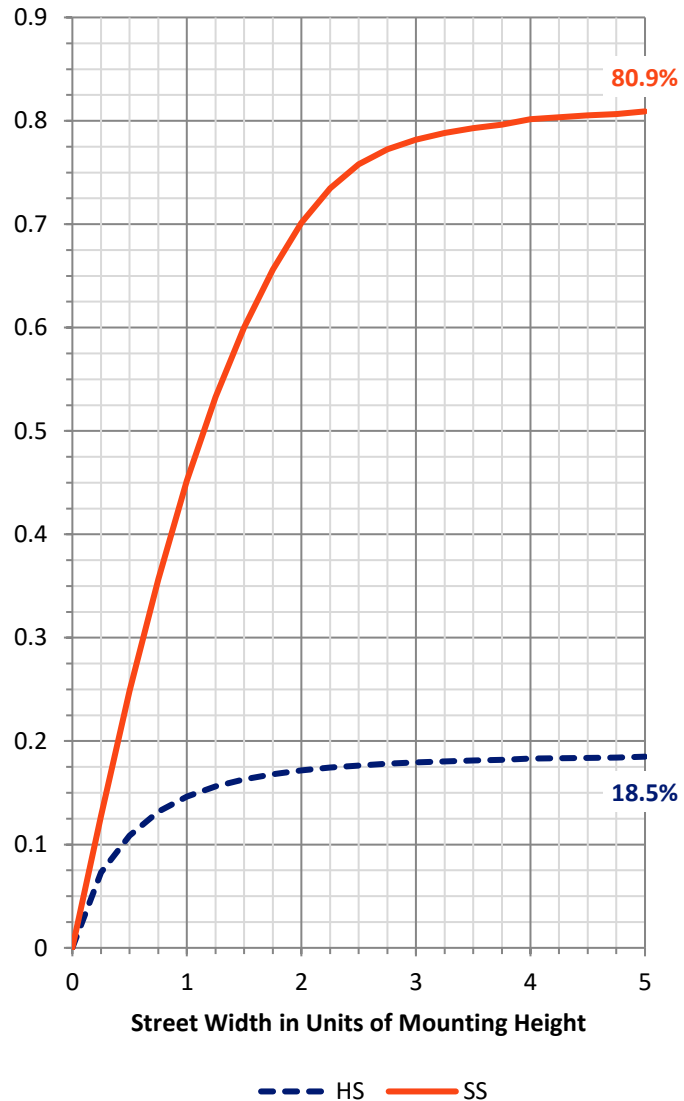
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10418.0	0.0	10418.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	45127.8	0.0	45127.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	55545.8	0.0	55545.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.2	1.6
10°-20°	2336.7	4.2
20°-30°	3549.2	6.4
30°-40°	5275.8	9.5
40°-50°	7846.1	14.1
50°-60°	10650.2	19.2
60°-70°	13002.1	23.4
70°-80°	10203.9	18.4
80°-90°	1767.6	3.2
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°	55545.8	100.0
0°-180°	55545.8	100.0

Coefficient of Utilization



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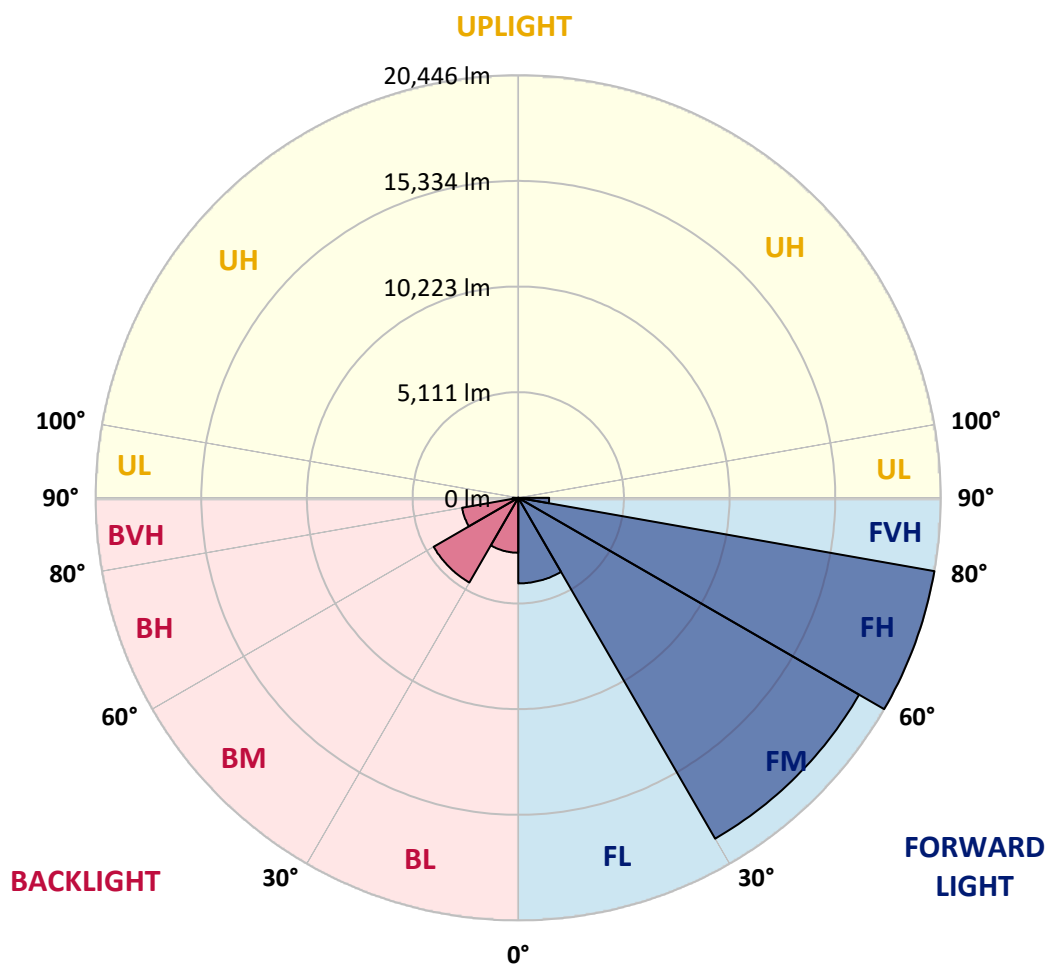
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4141.5	7.5			
FM	(30°-60°)	19043.4	34.3			
FH	(60°-80°)	20445.9	36.8			G5
FVH	(80°-90°)	1497.0	2.7			G5
BL	(0°-30°)	2658.6	4.8	B4/5000		
BM	(30°-60°)	4728.7	8.5	B3/5000		
BH	(60°-80°)	2760.1	5.0	B4/5000		G4/5000
BVH	(80°-90°)	270.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3
2.5°	10282.0	10246.1	10282.0	10267.0	10261.1	10249.1	10252.0	10273.0	10261.1	10275.9	10225.2
5°	10213.2	10192.3	10228.2	10219.2	10258.1	10264.0	10302.9	10326.8	10341.7	10344.7	10305.9
7.5°	10099.7	10078.7	10129.6	10171.4	10255.0	10279.0	10359.7	10398.5	10419.4	10455.3	10398.5
10°	9684.3	9675.4	9800.8	9959.2	10156.4	10279.0	10401.5	10467.2	10500.1	10595.7	10529.9
12.5°	8949.3	8961.3	9125.6	9430.3	9824.8	10219.2	10449.3	10544.9	10595.7	10715.2	10685.3
15°	8247.0	8244.1	8423.3	8749.1	9301.9	9956.2	10473.2	10637.6	10724.2	10900.5	10876.6
17.5°	7840.7	7828.7	7954.2	8202.3	8716.2	9552.9	10413.4	10688.3	10873.6	11094.7	11073.8
20°	7766.0	7742.1	7807.8	7930.3	8294.9	9110.6	10258.1	10688.3	10993.1	11280.0	11268.0
22.5°	8037.9	7999.1	7972.1	7957.3	8118.6	8746.1	10081.8	10652.5	11169.4	11545.9	11525.0
25°	8584.7	8524.9	8387.5	8253.1	8205.2	8581.7	9926.4	10643.5	11432.3	11904.5	11826.8
27.5°	9469.2	9394.5	9116.7	8793.9	8504.0	8665.5	9857.6	10697.3	11722.2	12284.0	12128.6
30°	10565.8	10485.1	10135.5	9639.5	9119.6	8976.1	9944.3	10855.7	12092.7	12788.9	12484.2
32.5°	11548.9	11459.3	11160.4	10655.5	9953.3	9514.0	10219.2	11157.4	12675.4	13491.2	13019.0
35°	12421.5	12316.8	12048.0	11581.8	10975.2	10270.0	10715.2	11692.3	13503.1	14632.6	13745.1
37.5°	13276.0	13153.5	12860.7	12367.6	11943.3	11276.9	11399.5	12379.5	14602.7	16019.0	14707.3
40°	14232.2	14055.9	13700.4	13213.3	12800.9	12457.2	12298.9	13222.2	15720.2	17566.9	15908.5
42.5°	15158.5	14991.1	14566.9	14151.6	13634.6	13535.9	13341.7	14208.2	16942.3	19267.1	17127.6
45°	16156.5	15956.3	15442.3	14916.4	14590.8	14253.1	14351.7	15194.4	18140.6	21000.2	18406.5
47.5°	17091.8	16867.7	16261.1	15675.4	15496.2	14856.7	15278.0	16279.0	19386.6	22757.2	19673.4
50°	17596.8	17375.6	16870.7	16341.8	16201.4	15600.7	16282.0	17471.2	20692.4	24508.2	20889.6
52.5°	18018.1	17779.0	17118.6	16825.8	16784.0	16410.5	17519.1	18833.9	21998.1	26056.0	22063.9
55°	18466.3	18200.3	17357.8	17094.7	17286.0	17318.9	18986.2	20378.6	23378.7	27565.0	23172.5
57.5°	18983.2	18645.6	17587.8	17321.9	17776.1	18382.7	20671.5	21980.3	24735.3	28963.4	24158.5
60°	19470.3	19129.7	18030.1	17683.4	18305.0	19616.7	22604.7	23919.5	26271.2	30209.4	25090.9
62.5°	19565.9	19285.1	18382.7	18379.6	19022.1	21057.0	24893.7	25876.7	27612.8	31440.5	25927.5
65°	17910.5	17734.2	17199.3	18352.7	20049.9	23130.7	27442.4	28380.7	29319.0	32516.2	26662.6
67.5°	13631.6	13655.5	13616.6	15842.8	19219.3	26109.8	31132.7	31061.0	31425.6	33723.4	27508.2
70°	6233.1	6373.6	7288.0	10936.3	15397.6	26453.4	37234.4	36305.1	34070.0	35286.1	28240.3
72.5°	3367.5	3475.2	3848.7	5297.8	9257.1	23519.1	41794.2	42454.6	37587.0	36338.0	27436.5
75°	2471.2	2530.9	2790.9	3367.5	3887.5	17480.2	40159.7	43548.1	38026.2	33884.8	23692.5
77.5°	1849.6	1876.5	2088.6	2668.4	1990.0	9215.3	32089.0	36066.1	32552.1	27839.8	17501.2
80°	1341.6	1371.6	1529.9	2002.0	1395.4	3370.5	22034.0	25314.9	22294.1	17746.1	8722.1
82.5°	926.3	938.3	1007.0	1362.5	974.2	1308.8	12502.1	14844.8	12445.3	6227.2	2354.6
85°	558.7	573.7	603.6	794.8	552.8	621.6	5396.4	5581.7	3720.1	1488.1	732.1
87.5°	230.1	245.0	269.0	334.7	218.1	173.3	890.4	1117.6	696.2	436.2	227.1
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°	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3	10195.3
2.5°	10210.2	10189.3	10132.5	10054.8	9983.2	9893.5	9854.7	9821.8	9791.9	9735.1	9708.3
5°	10273.0	10216.2	10063.9	9866.6	9642.5	9397.5	9158.5	8994.1	8853.6	8749.1	8662.4
7.5°	10368.6	10261.1	9983.2	9579.8	9065.8	8539.9	8064.8	7727.2	7473.2	7380.5	7219.2
10°	10467.2	10338.8	9854.7	9143.5	8256.1	7446.3	6815.8	6469.2	6266.0	6200.2	6098.6
12.5°	10583.7	10395.6	9654.5	8536.9	7350.7	6463.2	5913.4	5710.2	5605.6	5569.7	5578.8
15°	10754.1	10443.3	9352.7	7777.9	6487.1	5746.0	5390.5	5250.0	5196.2	5193.3	5205.3
17.5°	10882.5	10452.2	8883.6	6965.2	5823.7	5312.8	5019.9	4966.2	5002.0	5055.8	5076.7
20°	11026.0	10371.6	8268.0	6224.1	5357.6	4933.3	4810.8	4846.6	4933.3	5011.0	5037.9
22.5°	11127.6	10225.2	7524.0	5647.4	4954.2	4715.2	4709.2	4783.9	4831.7	4870.6	4891.5
25°	11217.2	9977.1	6735.1	5163.4	4622.5	4583.7	4649.4	4625.5	4592.7	4625.5	4646.4
27.5°	11283.0	9585.7	6030.0	4739.1	4389.5	4494.0	4455.3	4401.5	4398.5	4416.4	4446.2
30°	11262.1	9062.8	5450.2	4335.6	4225.2	4326.7	4234.1	4225.2	4216.1	4225.2	4258.0
32.5°	11262.1	8468.2	5005.0	4057.8	4120.6	4081.8	4072.7	4051.8	4016.0	4013.0	4051.8
35°	11324.8	7873.5	4622.5	3908.4	4033.9	3941.2	3947.3	3896.4	3821.7	3785.8	3821.7
37.5°	11453.2	7395.5	4243.1	3836.7	3881.5	3878.5	3854.6	3768.0	3636.5	3522.9	3561.8
40°	11764.0	7255.1	3983.2	3803.8	3809.8	3845.7	3782.9	3615.6	3316.8	3131.5	3155.4
42.5°	12251.1	7491.1	3926.4	3723.1	3762.0	3797.8	3675.3	3286.9	3074.7	2964.2	2964.2
45°	12869.6	7903.5	4048.9	3606.6	3648.5	3711.2	3346.6	3161.4	3065.8	3068.7	3083.7
47.5°	13652.5	8336.7	4275.9	3505.0	3484.1	3520.0	3128.5	3014.9	2883.5	2916.3	3000.1
50°	14557.9	8775.9	4491.0	3367.5	3301.8	3185.3	2988.1	2880.5	2713.2	2635.5	2656.4
52.5°	15538.0	9200.3	4577.8	3200.3	3104.6	2970.1	2892.4	2760.9	2557.8	2429.4	2426.3
55°	16467.2	9585.7	4482.1	3000.1	2907.4	2802.9	2790.9	2710.2	2492.1	2312.8	2312.8
57.5°	17345.8	9908.5	4243.1	2796.8	2707.2	2644.4	2725.2	2686.3	2411.4	2181.3	2169.3
60°	18089.8	10129.6	3896.4	2590.7	2528.0	2495.1	2617.5	2605.5	2297.8	2040.9	2031.9
62.5°	18681.4	10216.2	3514.0	2393.5	2378.5	2318.8	2468.1	2468.1	2154.4	1903.4	1894.4
65°	19144.5	10132.5	3125.5	2199.2	2229.1	2139.5	2285.9	2267.9	2002.0	1780.9	1768.9
67.5°	19553.9	9857.6	2695.2	2008.0	2076.8	1963.2	2094.7	2052.8	1834.6	1658.3	1646.5
70°	19736.2	9218.2	2205.2	1816.7	1900.5	1789.9	1903.4	1825.7	1646.5	1526.9	1503.0
72.5°	18272.1	7661.5	1736.0	1616.5	1688.3	1598.6	1697.2	1607.6	1443.2	1389.5	1344.6
75°	15116.7	5749.0	1335.7	1398.4	1452.2	1383.4	1449.2	1383.4	1234.1	1272.9	1162.4
77.5°	10978.2	3881.5	1021.9	1168.3	1192.3	1156.4	1213.2	1138.5	1004.0	995.1	950.2
80°	5459.3	2274.0	800.8	923.3	914.3	890.4	956.2	920.3	806.8	854.5	845.6
82.5°	1580.7	974.2	582.7	648.4	630.5	636.4	684.3	702.2	1051.8	1042.8	1066.7
85°	496.0	382.4	349.6	361.5	343.6	352.6	403.4	800.8	741.1	433.3	469.1
87.5°	128.5	131.5	86.6	92.7	95.6	113.6	128.5	487.1	233.1	152.4	161.3
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)