

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: P971410

Luminaire Tested: **NAV-SB6D-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971410
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-735-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 61816.7 lumens
Efficiency: N/A
Efficacy: 140.5 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



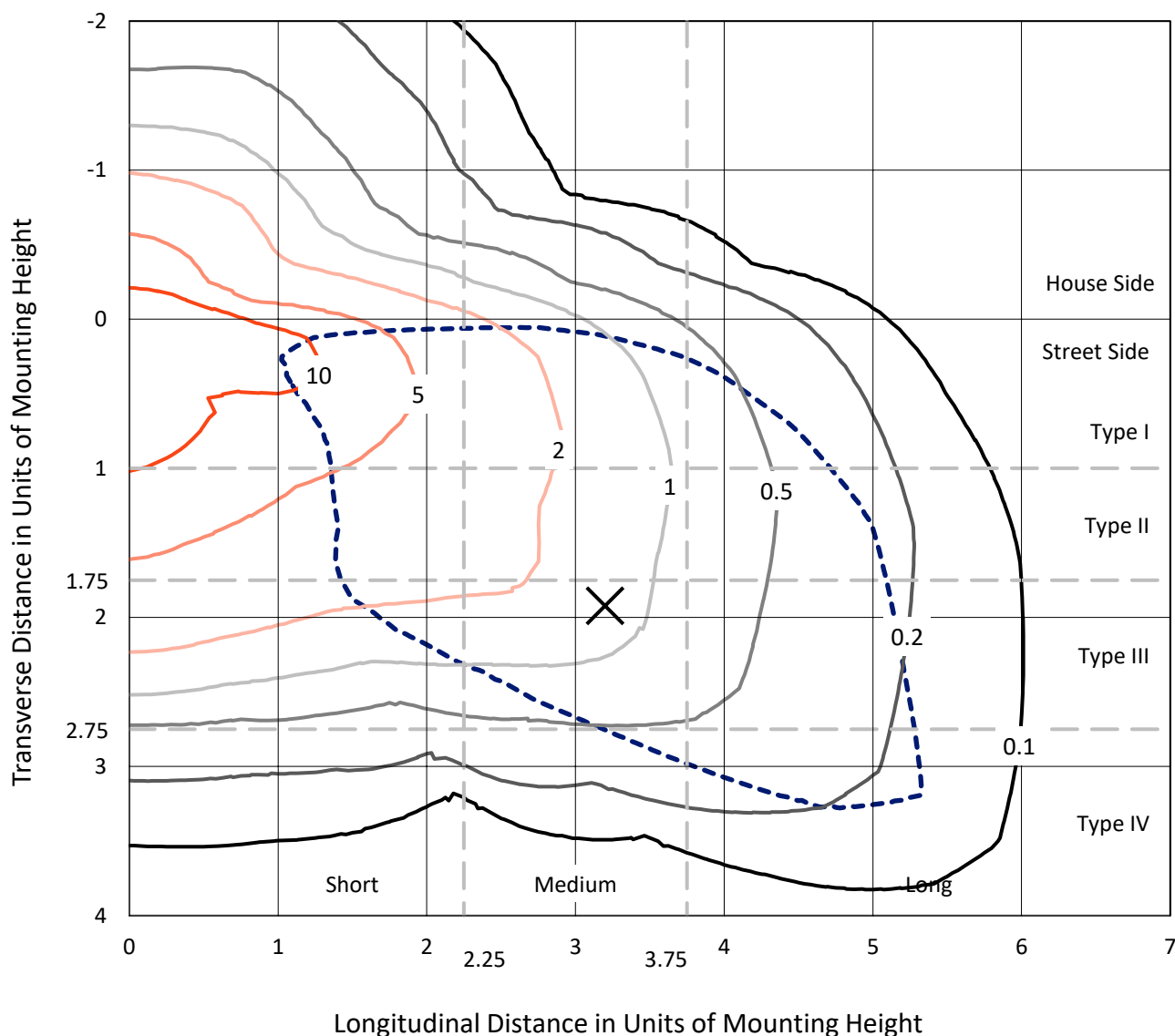
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

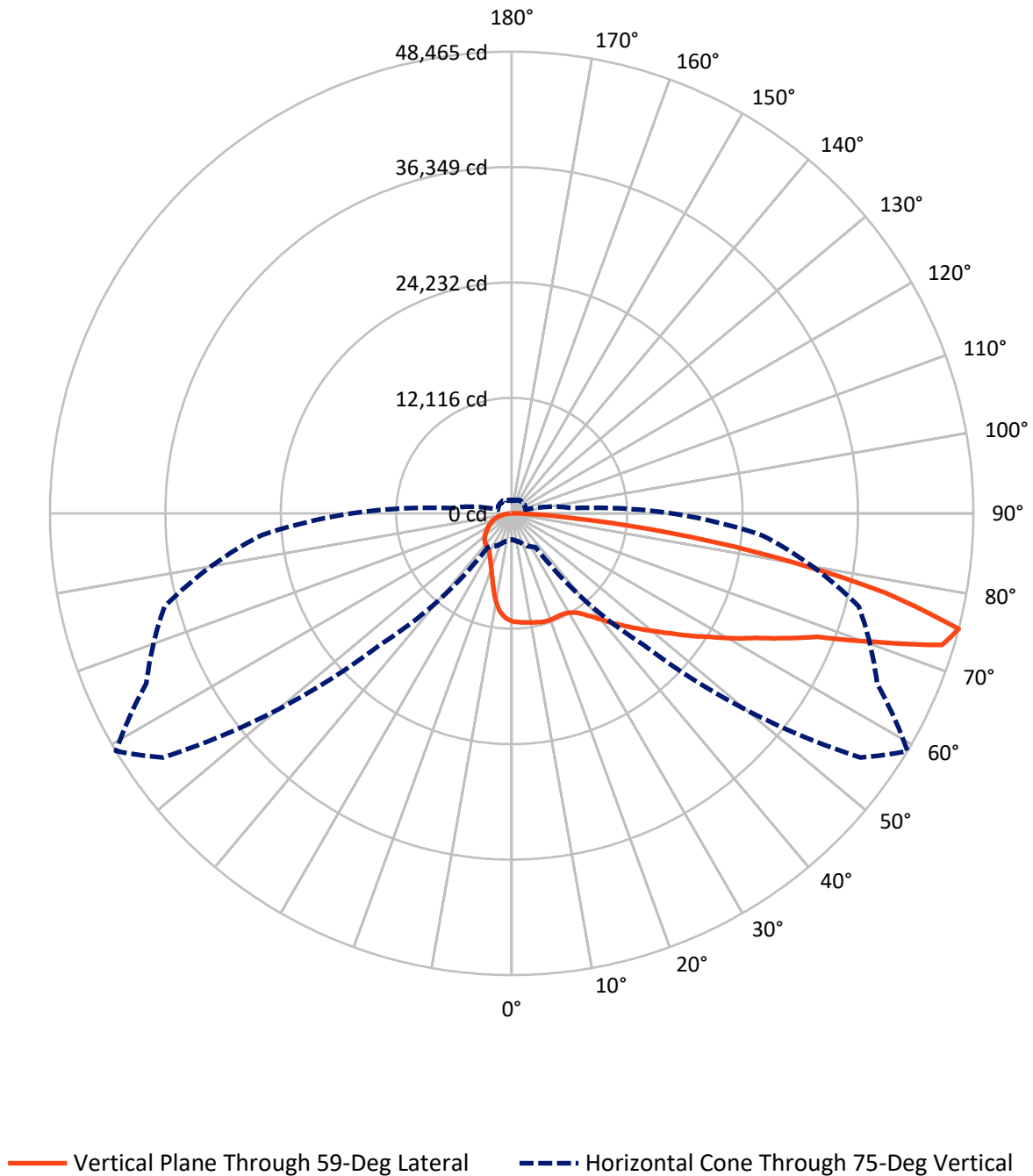
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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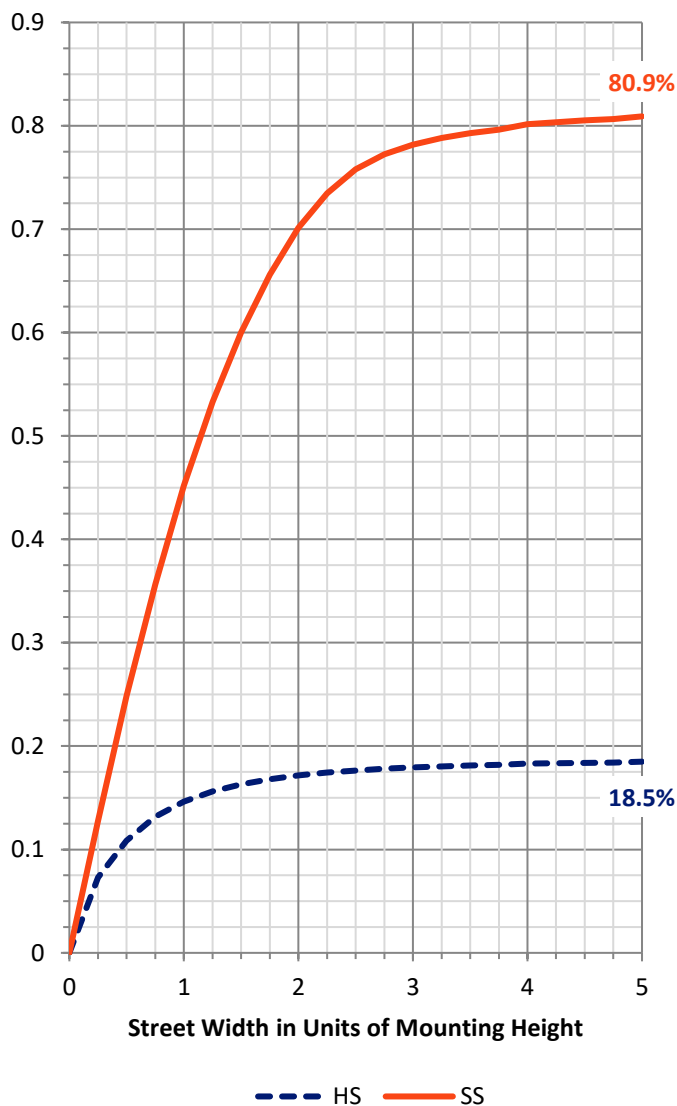
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11594.2	0.0	11594.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	50222.6	0.0	50222.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	61816.7	0.0	61816.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.4	1.6
10°-20°	2600.5	4.2
20°-30°	3949.9	6.4
30°-40°	5871.5	9.5
40°-50°	8731.9	14.1
50°-60°	11852.5	19.2
60°-70°	14470.0	23.4
70°-80°	11355.9	18.4
80°-90°	1967.1	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°	61816.7	100.0
0°-180°	61816.7	100.0

Coefficient of Utilization



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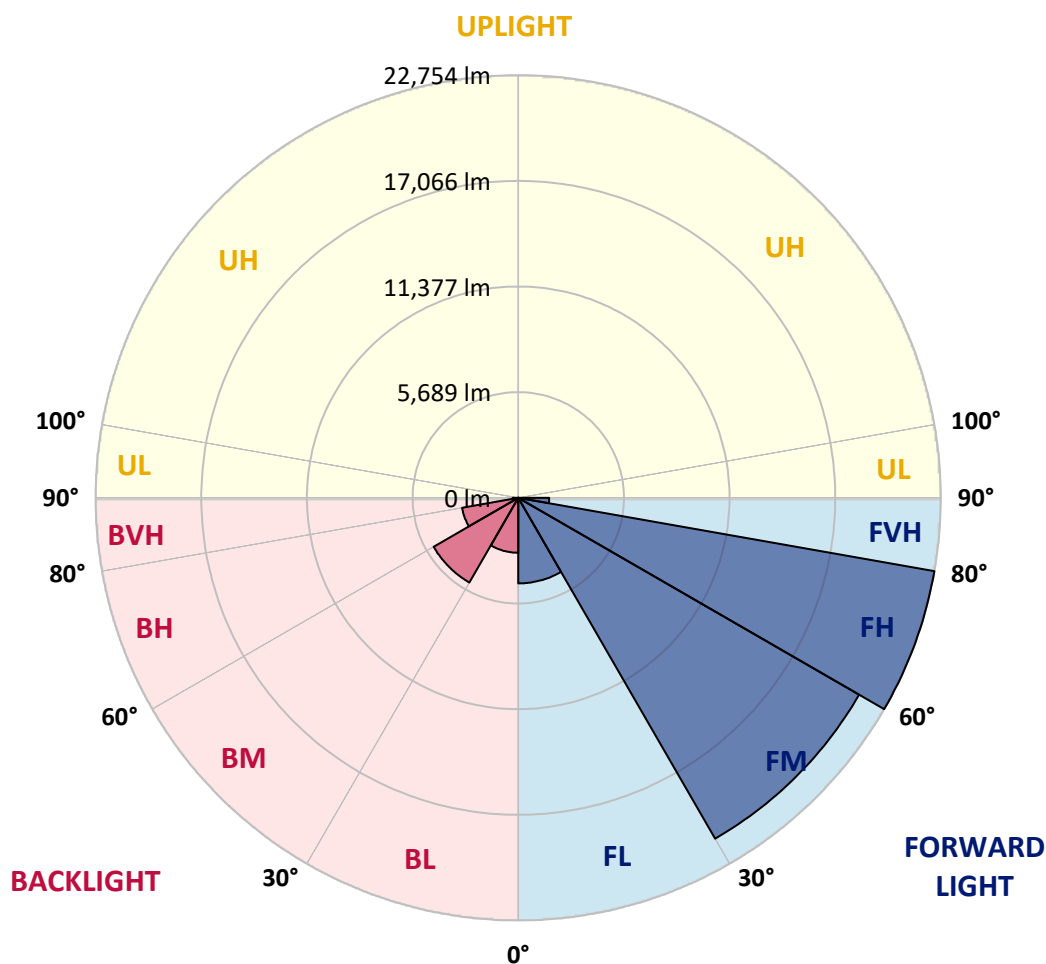
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4609.1	7.5			
FM	(30°-60°)	21193.3	34.3			
FH	(60°-80°)	22754.1	36.8			G5
FVH	(80°-90°)	1666.0	2.7			G5
BL	(0°-30°)	2958.7	4.8	B4/5000		
BM	(30°-60°)	5262.6	8.5	B4/8500		
BH	(60°-80°)	3071.7	5.0	B4/5000		G4/5000
BVH	(80°-90°)	301.1	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°	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3
2.5°	11442.8	11402.8	11442.8	11426.1	11419.5	11406.2	11409.5	11432.7	11419.5	11436.1	11379.6
5°	11366.2	11343.0	11382.9	11372.9	11416.1	11422.8	11466.1	11492.6	11509.3	11512.6	11469.3
7.5°	11239.9	11216.7	11273.2	11319.7	11412.9	11439.4	11529.2	11572.5	11595.7	11635.6	11572.5
10°	10777.7	10767.7	10907.3	11083.6	11303.1	11439.4	11575.7	11648.9	11685.5	11791.9	11718.7
12.5°	9959.6	9972.9	10155.8	10495.0	10934.0	11372.9	11628.9	11735.4	11791.9	11925.0	11891.6
15°	9178.2	9174.8	9374.3	9736.8	10352.0	11080.2	11655.6	11838.4	11934.9	12131.1	12104.5
17.5°	8725.9	8712.6	8852.3	9128.2	9700.2	10631.4	11589.1	11895.0	12101.2	12347.3	12324.0
20°	8642.8	8616.2	8689.3	8825.7	9231.4	10139.2	11416.1	11895.0	12234.2	12553.5	12540.2
22.5°	8945.4	8902.1	8872.2	8855.6	9035.2	9733.5	11220.0	11855.2	12430.4	12849.4	12826.1
25°	9553.9	9487.4	9334.5	9184.8	9131.6	9550.6	11047.0	11845.1	12723.0	13248.4	13162.0
27.5°	10538.2	10455.1	10145.9	9786.7	9464.1	9643.7	10970.6	11905.0	13045.6	13670.8	13497.9
30°	11758.7	11668.9	11279.8	10727.8	10149.1	9989.5	11067.0	12081.3	13457.9	14232.7	13893.6
32.5°	12852.8	12752.9	12420.4	11858.4	11077.0	10588.1	11372.9	12417.2	14106.5	15014.3	14488.9
35°	13823.8	13707.3	13408.1	12889.3	12214.2	11429.5	11925.0	13012.4	15027.5	16284.6	15296.9
37.5°	14774.9	14638.4	14312.6	13763.9	13291.7	12550.1	12686.4	13777.2	16251.3	17827.5	16367.7
40°	15838.9	15642.7	15247.1	14705.0	14246.1	13863.6	13687.4	14715.0	17495.0	19550.1	17704.5
42.5°	16869.9	16683.6	16211.4	15749.1	15173.9	15064.1	14847.9	15812.4	18855.1	21442.3	19061.3
45°	17980.6	17757.7	17185.8	16600.5	16238.0	15862.3	15972.0	16909.7	20188.6	23371.0	20484.5
47.5°	19021.3	18772.0	18096.9	17445.1	17245.6	16534.0	17002.9	18116.9	21575.3	25326.4	21894.5
50°	19583.3	19337.3	18775.3	18186.7	18030.4	17362.0	18120.2	19443.7	23028.5	27275.0	23248.0
52.5°	20052.3	19786.2	19051.3	18725.4	18678.9	18263.1	19496.9	20960.1	24481.7	28997.7	24554.9
55°	20551.0	20255.1	19317.4	19024.7	19237.5	19274.1	21129.7	22679.4	26018.1	30677.0	25788.6
57.5°	21126.4	20750.6	19573.4	19277.5	19782.9	20458.0	23005.2	24461.7	27527.8	32233.3	26886.0
60°	21668.4	21289.4	20065.6	19679.8	20371.5	21831.4	25156.8	26620.0	29237.1	33620.0	27923.6
62.5°	21774.8	21462.3	20458.0	20454.6	21169.6	23434.2	27704.0	28798.1	30730.2	34990.0	28854.7
65°	19932.6	19736.4	19141.1	20424.7	22313.5	25742.1	30540.6	31584.8	32629.0	36187.2	29672.7
67.5°	15170.5	15197.2	15153.9	17631.3	21389.1	29057.5	34647.6	34567.7	34973.4	37530.7	30613.8
70°	6936.8	7093.1	8110.7	12171.1	17135.8	29439.9	41438.0	40403.9	37916.4	39269.8	31428.5
72.5°	3747.7	3867.4	4283.2	5896.0	10302.2	26174.4	46512.7	47247.5	41830.5	40440.4	30533.9
75°	2750.1	2816.6	3106.0	3747.7	4326.3	19453.7	44693.6	48464.7	42319.3	37710.3	26367.2
77.5°	2058.4	2088.3	2324.5	2969.6	2214.7	10255.5	35711.6	40137.8	36227.1	30982.9	19476.9
80°	1493.1	1526.3	1702.6	2228.0	1553.0	3751.1	24521.6	28172.9	24810.9	19749.7	9706.9
82.5°	1030.8	1044.2	1120.6	1516.4	1084.0	1456.5	13913.6	16520.6	13850.3	6930.1	2620.4
85°	621.9	638.5	671.8	884.6	615.2	691.7	6005.7	6211.9	4140.2	1656.1	814.8
87.5°	256.0	272.6	299.3	372.5	242.7	192.9	991.0	1243.7	774.8	485.5	252.8
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°	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3	11346.3
2.5°	11362.9	11339.7	11276.5	11190.0	11110.2	11010.4	10967.2	10930.6	10897.4	10834.2	10804.3
5°	11432.7	11369.6	11200.0	10980.5	10731.1	10458.5	10192.4	10009.5	9853.2	9736.8	9640.4
7.5°	11539.2	11419.5	11110.2	10661.3	10089.3	9504.0	8975.3	8599.5	8316.8	8213.7	8034.3
10°	11648.9	11505.9	10967.2	10175.8	9188.1	8286.9	7585.3	7199.5	6973.4	6900.2	6787.1
12.5°	11778.6	11569.2	10744.5	9500.7	8180.5	7192.8	6581.0	6354.9	6238.5	6198.6	6208.5
15°	11968.2	11622.4	10408.6	8656.0	7219.5	6394.8	5999.0	5842.8	5782.9	5779.6	5792.9
17.5°	12111.2	11632.3	9886.4	7751.6	6481.3	5912.6	5586.7	5526.8	5566.8	5626.6	5649.9
20°	12270.8	11542.5	9201.4	6926.8	5962.4	5490.3	5353.9	5393.9	5490.3	5576.7	5606.6
22.5°	12383.8	11379.6	8373.4	6285.0	5513.6	5247.5	5240.8	5324.0	5377.2	5420.4	5443.7
25°	12483.6	11103.5	7495.5	5746.4	5144.4	5101.2	5174.3	5147.8	5111.2	5147.8	5171.0
27.5°	12556.8	10667.9	6710.7	5274.1	4885.0	5001.4	4958.2	4898.4	4895.0	4915.0	4948.2
30°	12533.5	10086.0	6065.5	4825.2	4702.2	4815.2	4712.1	4702.2	4692.1	4702.2	4738.7
32.5°	12533.5	9424.3	5570.1	4515.9	4585.7	4542.5	4532.5	4509.3	4469.4	4466.0	4509.3
35°	12603.3	8762.5	5144.4	4349.7	4489.3	4386.2	4392.8	4336.4	4253.2	4213.3	4253.2
37.5°	12746.3	8230.4	4722.1	4269.8	4319.8	4316.4	4289.8	4193.4	4047.0	3920.6	3963.9
40°	13092.1	8074.1	4432.8	4233.2	4239.9	4279.8	4210.0	4023.7	3691.2	3485.0	3511.6
42.5°	13634.2	8336.8	4369.6	4143.5	4186.7	4226.6	4090.3	3657.9	3421.9	3298.9	3298.9
45°	14322.5	8795.7	4505.9	4013.8	4060.3	4130.1	3724.4	3518.3	3411.9	3415.2	3431.8
47.5°	15193.8	9277.9	4758.7	3900.7	3877.5	3917.3	3481.7	3355.3	3209.1	3245.6	3338.7
50°	16201.5	9766.7	4998.1	3747.7	3674.6	3544.9	3325.4	3205.7	3019.4	2933.0	2956.3
52.5°	17292.2	10238.9	5094.6	3561.6	3455.1	3305.4	3219.0	3072.6	2846.5	2703.5	2700.3
55°	18326.4	10667.9	4988.2	3338.7	3235.6	3119.3	3106.0	3016.2	2773.4	2573.9	2573.9
57.5°	19304.0	11027.1	4722.1	3112.6	3012.8	2943.0	3032.8	2989.5	2683.7	2427.5	2414.3
60°	20132.0	11273.2	4336.4	2883.1	2813.3	2776.7	2913.0	2899.7	2557.3	2271.3	2261.3
62.5°	20790.5	11369.6	3910.7	2663.7	2647.1	2580.5	2746.8	2746.8	2397.6	2118.3	2108.3
65°	21306.0	11276.5	3478.3	2447.5	2480.8	2381.0	2543.9	2524.0	2228.0	1981.9	1968.6
67.5°	21761.6	10970.6	2999.6	2234.7	2311.2	2184.8	2331.2	2284.5	2041.8	1845.6	1832.3
70°	21964.4	10258.9	2454.2	2021.8	2115.0	1991.9	2118.3	2031.9	1832.3	1699.2	1672.7
72.5°	20334.9	8526.4	1932.0	1799.1	1878.8	1779.1	1888.9	1789.0	1606.2	1546.3	1496.4
75°	16823.3	6398.2	1486.5	1556.3	1616.1	1539.7	1612.8	1539.7	1373.4	1416.7	1293.6
77.5°	12217.6	4319.8	1137.3	1300.2	1326.9	1286.9	1350.1	1267.0	1117.4	1107.4	1057.5
80°	6075.6	2530.6	891.2	1027.6	1017.6	991.0	1064.2	1024.2	897.9	951.1	941.1
82.5°	1759.1	1084.0	648.4	721.6	701.6	708.3	761.5	781.5	1170.6	1160.6	1187.2
85°	552.1	425.7	389.1	402.4	382.4	392.4	449.0	891.2	824.7	482.2	522.1
87.5°	143.0	146.3	96.5	103.1	106.4	126.4	143.0	542.0	259.4	169.6	179.6
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)