

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: P968974

Luminaire Tested: **NAV-SB5C-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35637.2 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 249.5
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



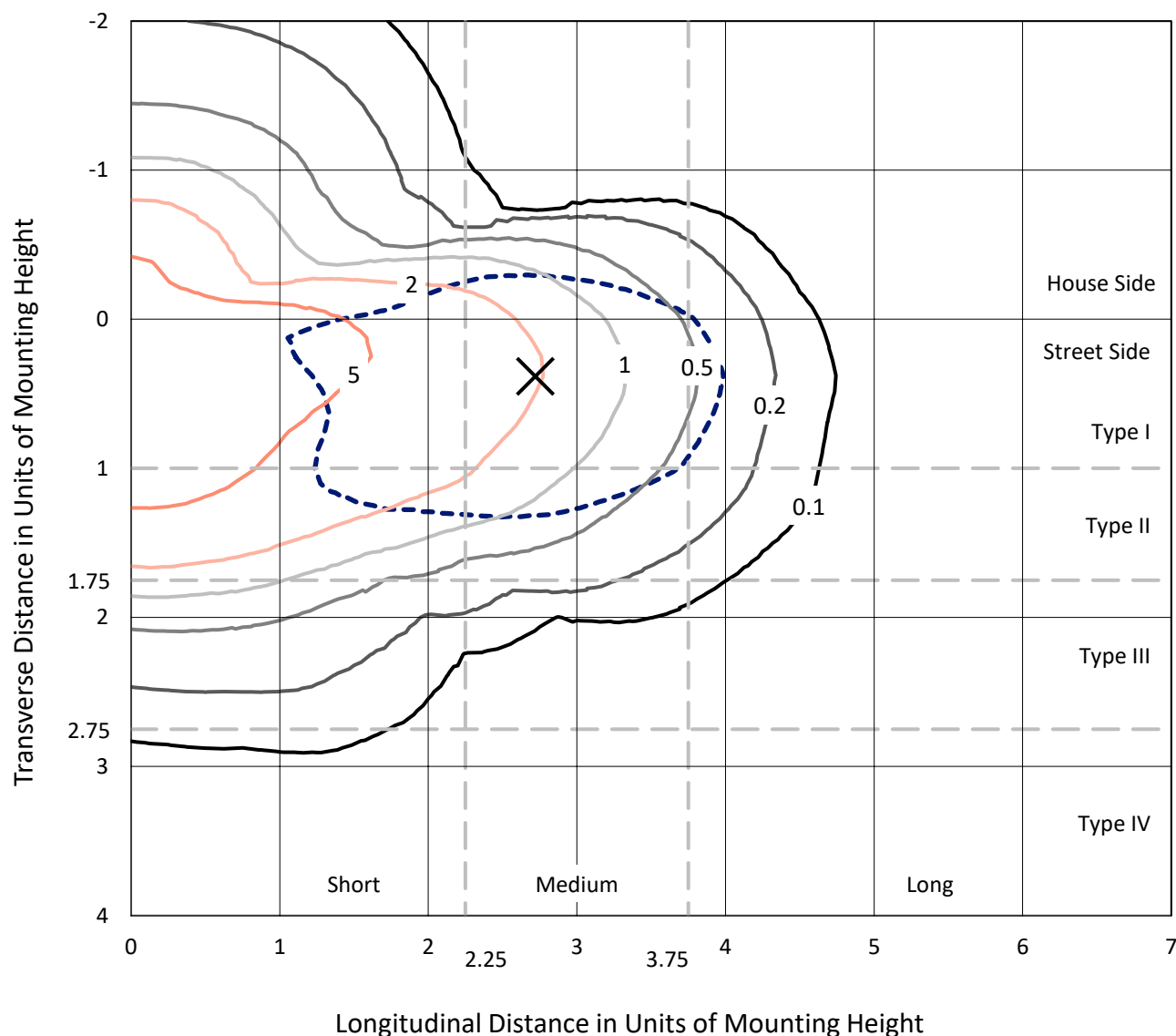
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

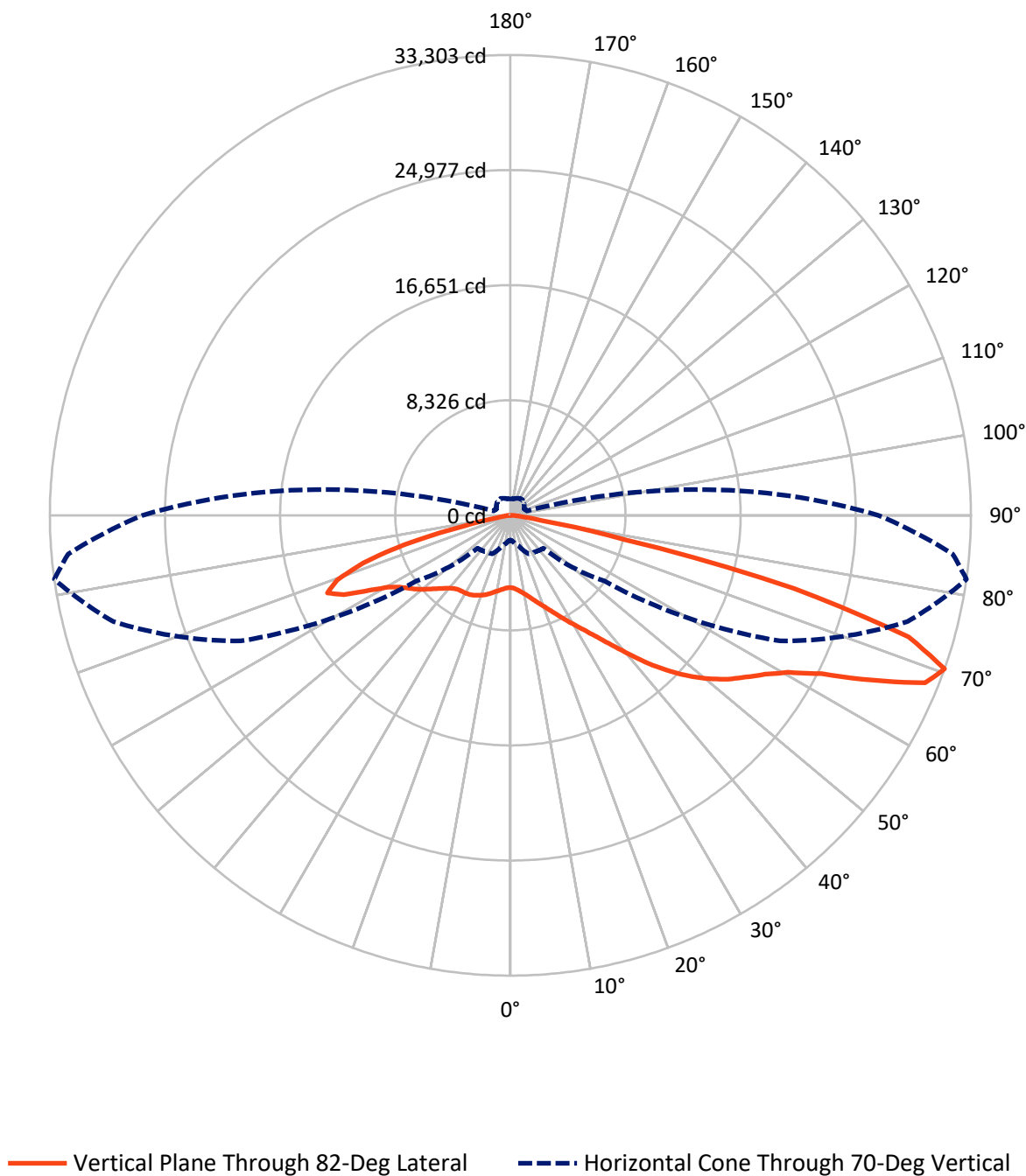
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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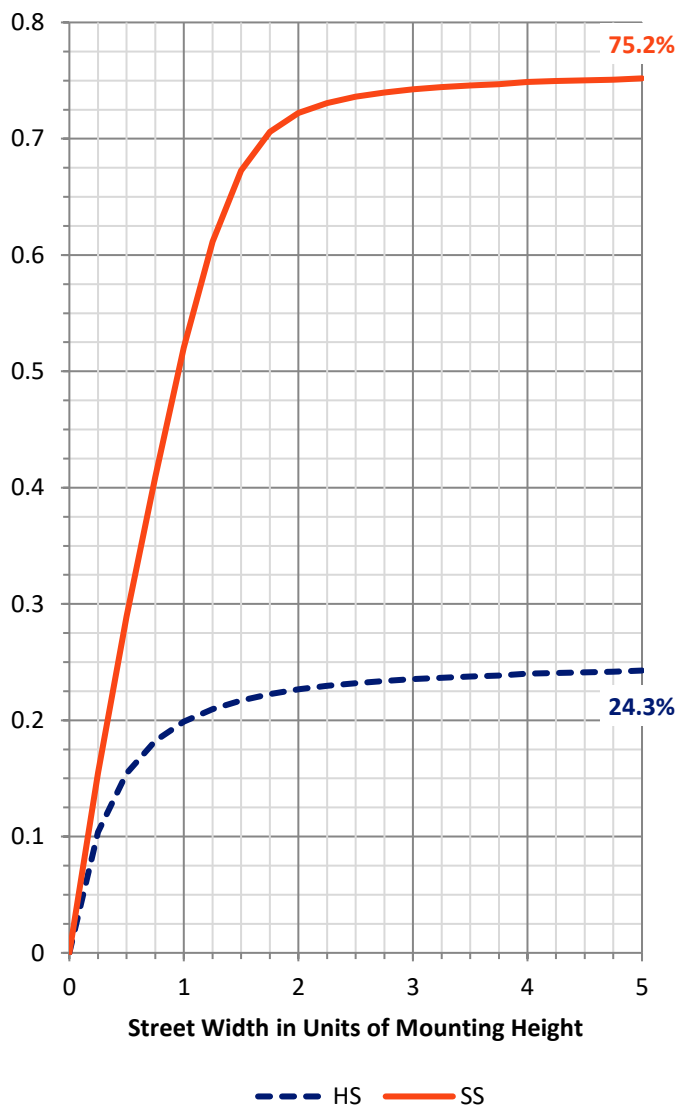
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8785.4	0.0	8785.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	26851.8	0.0	26851.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	35637.2	0.0	35637.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.3	1.4
10°-20°	1417.3	4.0
20°-30°	2371.1	6.7
30°-40°	3704.2	10.4
40°-50°	5899.4	16.6
50°-60°	8209.7	23.0
60°-70°	8587.7	24.1
70°-80°	4488.4	12.6
80°-90°	466.1	1.3
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°	35637.2	100.0
0°-180°	35637.2	100.0

Coefficient of Utilization



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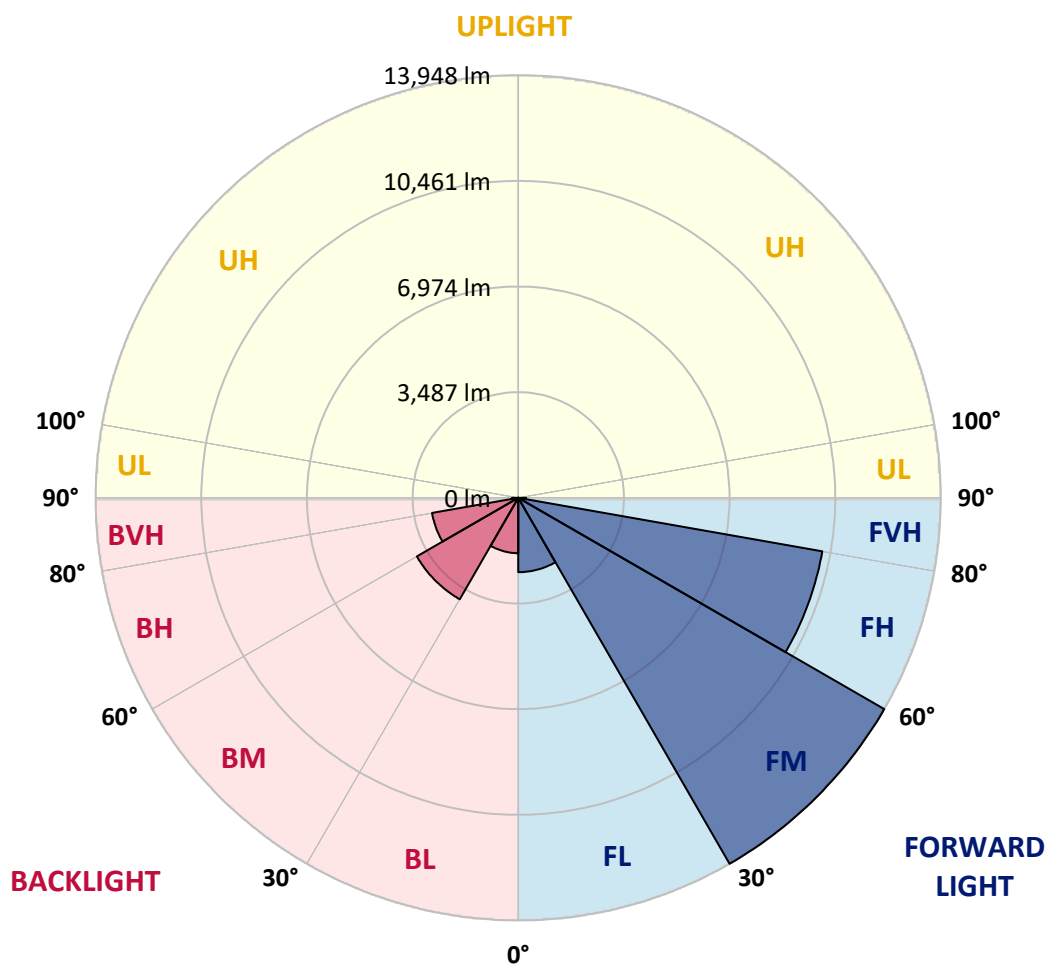
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2454.0	6.9			
FM	(30°-60°)	13948.0	39.1			
FH	(60°-80°)	10188.8	28.6			G4/12000
FVH	(80°-90°)	260.9	0.7			G3/500
BL	(0°-30°)	1827.7	5.1	B3/2500		
BM	(30°-60°)	3865.2	10.8	B3/5000		
BH	(60°-80°)	2887.3	8.1	B4/5000		G4/5000
BVH	(80°-90°)	205.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8
2.5°	5349.7	5379.9	5370.5	5361.1	5361.1	5347.7	5345.9	5326.9	5311.9	5287.3	5281.6
5°	5417.7	5449.9	5446.1	5453.7	5478.2	5484.0	5489.6	5478.2	5448.0	5417.7	5404.5
7.5°	5357.3	5393.1	5404.5	5449.9	5525.6	5593.6	5644.7	5665.5	5637.1	5593.6	5572.8
10°	5153.0	5192.8	5232.4	5340.2	5474.4	5635.2	5771.4	5852.6	5847.0	5805.4	5769.5
12.5°	4738.9	4780.5	4865.6	5075.5	5321.3	5604.9	5858.4	6028.5	6087.2	6056.9	5994.5
15°	4407.9	4443.9	4508.2	4723.7	5043.3	5474.4	5890.5	6221.4	6370.8	6353.8	6278.1
17.5°	4398.5	4413.6	4453.3	4555.4	4801.3	5270.2	5856.4	6410.6	6696.0	6694.2	6599.7
20°	4564.9	4570.6	4593.2	4614.0	4754.0	5115.2	5769.5	6567.5	7061.0	7061.0	6958.9
22.5°	4795.6	4791.8	4814.5	4795.6	4863.7	5101.9	5714.6	6705.6	7467.6	7497.9	7369.2
25°	5141.6	5122.7	5117.1	5073.5	5086.8	5224.8	5775.2	6862.5	7949.8	8012.2	7851.5
27.5°	5603.1	5572.8	5552.0	5451.8	5417.7	5478.2	5960.5	7051.6	8486.9	8594.6	8390.4
30°	6204.4	6149.6	6119.4	5945.3	5822.4	5831.8	6240.3	7303.1	9048.5	9222.4	8963.4
32.5°	7025.1	6940.0	6858.7	6573.1	6348.1	6274.3	6601.5	7651.0	9657.3	9935.3	9602.5
35°	7944.2	7876.1	7789.1	7348.4	7002.4	6832.2	7089.4	8137.0	10370.3	10810.9	10377.8
37.5°	8829.1	8770.5	8812.1	8218.3	7772.1	7524.3	7728.6	8789.4	11249.6	11900.1	11349.8
40°	9744.4	9699.0	9704.7	9137.4	8617.4	8339.4	8503.9	9608.2	12257.6	13195.4	12518.5
42.5°	10739.0	10705.0	10591.5	10088.6	9504.2	9245.2	9396.4	10553.7	13339.1	14670.4	13800.6
45°	11852.9	11832.1	11726.1	11149.4	10480.0	10188.8	10393.0	11597.6	14426.5	16058.5	15088.4
47.5°	12815.4	12832.4	12819.2	12333.2	11639.2	11211.8	11455.7	12686.7	15438.2	17363.3	16323.2
50°	13278.7	13367.5	13498.0	13346.7	12915.6	12480.7	12528.0	13738.2	16402.7	18586.7	17507.0
52.5°	13036.7	13204.9	13560.4	13802.4	13968.9	13878.1	13751.4	14782.0	17310.3	19691.1	18626.4
55°	12134.6	12371.0	12961.0	13545.3	14394.4	15054.3	15220.7	15939.4	18195.3	20663.1	19685.4
57.5°	10491.3	10875.1	11404.7	12586.6	14016.2	15623.6	16934.0	17544.8	19133.3	21701.2	20793.6
60°	7673.8	8188.1	8846.2	10604.8	12692.5	15319.0	18392.0	20010.7	20466.4	23045.7	22236.4
62.5°	4911.0	5228.6	5833.8	7490.3	9890.0	13759.0	18838.3	23093.0	22726.2	25250.7	24399.7
65°	3362.2	3566.5	4120.5	5050.9	6393.5	10241.7	17643.1	25403.8	26315.3	28745.2	28098.5
67.5°	2443.2	2598.3	3071.0	3886.0	4165.9	6060.7	13690.9	25297.9	29804.2	32345.7	31339.7
70°	1781.3	1891.0	2288.1	3071.0	3205.3	3371.6	8294.0	21504.6	29728.6	33302.6	32098.0
72.5°	1319.9	1395.5	1662.2	2382.7	2594.5	2276.7	4105.4	15629.2	25545.7	30121.9	29155.6
75°	955.0	1011.7	1208.4	1823.0	2076.3	1734.1	2048.0	9133.6	17819.0	21188.8	21358.9
77.5°	729.9	773.5	902.0	1335.1	1662.2	1301.0	1270.8	4201.8	8449.1	8490.6	8967.2
80°	586.2	614.6	684.5	939.8	1274.6	973.9	828.3	1696.3	2670.1	2259.7	2371.3
82.5°	431.1	478.5	578.6	660.0	911.4	671.3	504.9	856.6	1015.5	873.6	881.2
85°	245.8	278.0	349.8	472.7	582.4	410.3	289.4	380.1	472.7	387.7	346.0
87.5°	87.0	113.5	122.9	185.3	253.4	170.1	111.5	109.7	155.1	115.3	96.5
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°	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8	5224.8
2.5°	5262.7	5253.2	5215.4	5164.4	5111.4	5060.3	5043.3	5007.4	4982.8	4969.6	4984.7
5°	5368.5	5338.3	5249.4	5136.0	5016.9	4888.2	4797.5	4714.3	4653.8	4597.0	4619.8
7.5°	5519.8	5466.9	5313.7	5115.2	4903.4	4689.7	4530.8	4409.9	4328.5	4275.6	4287.0
10°	5695.7	5614.4	5379.9	5083.1	4755.9	4449.5	4262.4	4158.3	4107.3	4078.9	4086.5
12.5°	5898.1	5782.7	5448.0	5009.3	4530.8	4181.0	4052.4	4022.2	4024.0	4026.0	4029.8
15°	6147.6	5986.9	5502.8	4848.6	4237.8	3975.0	3952.2	4001.4	4052.4	4077.0	4075.1
17.5°	6429.4	6202.5	5512.2	4583.8	3950.3	3842.5	3914.4	4020.3	4097.8	4131.9	4139.5
20°	6732.0	6421.8	5444.2	4209.4	3714.0	3734.8	3863.3	3999.4	4084.6	4128.1	4139.5
22.5°	7078.0	6656.4	5281.6	3816.1	3521.1	3617.5	3768.8	3901.2	3990.0	4033.5	4044.9
25°	7473.3	6919.2	5026.3	3485.1	3354.6	3485.1	3636.4	3746.1	3817.9	3857.7	3869.0
27.5°	7912.0	7193.4	4685.9	3222.3	3209.1	3349.0	3473.8	3558.9	3596.7	3627.0	3638.3
30°	8352.6	7443.0	4273.6	3023.7	3082.4	3214.7	3303.6	3341.4	3352.8	3358.4	3371.6
32.5°	8829.1	7658.6	3840.7	2859.2	2961.3	3084.2	3137.2	3154.2	3101.2	3065.4	3076.6
35°	9405.9	7889.3	3417.0	2728.8	2842.2	2948.1	2965.1	2950.0	2887.5	2813.8	2817.6
37.5°	10118.8	8176.7	3078.6	2636.1	2730.6	2800.6	2779.8	2776.0	2781.6	2694.7	2700.4
40°	10992.4	8551.2	2830.8	2564.2	2639.9	2655.0	2596.3	2628.5	2656.9	2524.5	2528.3
42.5°	11962.6	9003.1	2673.9	2515.0	2564.2	2528.3	2437.6	2473.4	2469.6	2295.7	2293.7
45°	12951.5	9494.8	2619.1	2479.1	2494.2	2422.4	2322.1	2331.6	2252.2	2095.2	2100.9
47.5°	13934.9	10022.3	2653.1	2448.8	2407.2	2325.9	2248.4	2206.8	2089.6	1972.3	1972.3
50°	14899.3	10576.5	2777.9	2388.4	2288.1	2240.9	2184.1	2110.4	1985.5	1885.4	1877.8
52.5°	15793.7	11134.3	2917.9	2288.1	2138.8	2167.1	2131.2	2046.1	1923.2	1821.0	1823.0
55°	16640.9	11692.1	2972.7	2150.0	1998.7	2102.8	2082.0	1925.1	1777.6	1694.3	1686.7
57.5°	17563.7	12363.4	2912.1	1974.3	1885.4	2029.1	1949.7	1775.6	1690.5	1628.1	1622.5
60°	18842.1	13416.7	2781.6	1756.7	1777.6	1919.4	1783.2	1711.3	1618.7	1548.8	1545.0
62.5°	20965.7	15381.5	2571.7	1541.2	1650.9	1756.7	1703.8	1631.9	1537.4	1469.3	1469.3
65°	24104.7	18112.1	2176.6	1372.9	1509.0	1597.9	1618.7	1546.8	1448.5	1376.7	1380.5
67.5°	26752.1	19825.3	1647.1	1233.0	1363.5	1469.3	1528.0	1458.0	1353.9	1284.0	1285.9
70°	26606.5	18581.1	1257.6	1094.9	1234.8	1342.6	1418.3	1363.5	1251.8	1185.6	1191.4
72.5°	23632.0	15544.1	1017.3	955.0	1104.3	1210.2	1301.0	1259.4	1145.9	1081.7	1081.7
75°	17361.3	11034.0	813.1	813.1	941.8	1072.3	1172.4	1145.9	1041.9	996.6	983.3
77.5°	7318.2	4629.2	637.2	675.1	782.9	921.0	1045.7	1055.1	964.4	1021.1	926.6
80°	1945.9	1276.4	486.0	531.4	614.6	760.1	909.6	905.8	807.5	754.5	701.6
82.5°	741.3	503.0	346.0	374.4	444.3	582.4	720.5	743.1	644.8	557.8	557.8
85°	285.6	215.6	213.7	225.0	259.0	385.8	544.6	563.5	486.0	412.3	425.5
87.5°	73.8	64.3	79.4	75.6	119.1	206.1	312.0	323.4	296.8	172.1	245.8
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)