

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: P968930

Luminaire Tested: **NAV-SB5C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968930
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-SB5C-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34052.6 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

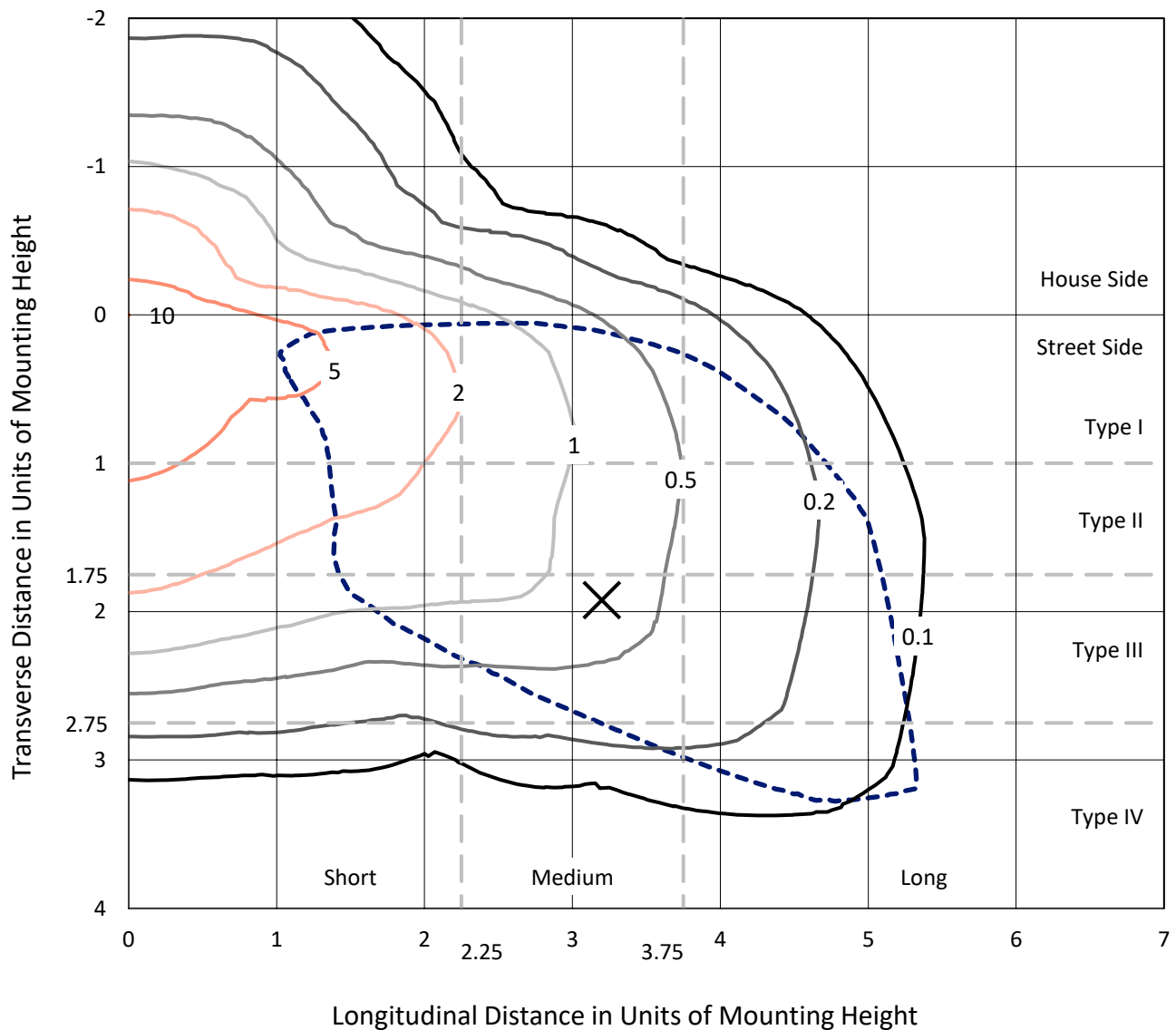
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

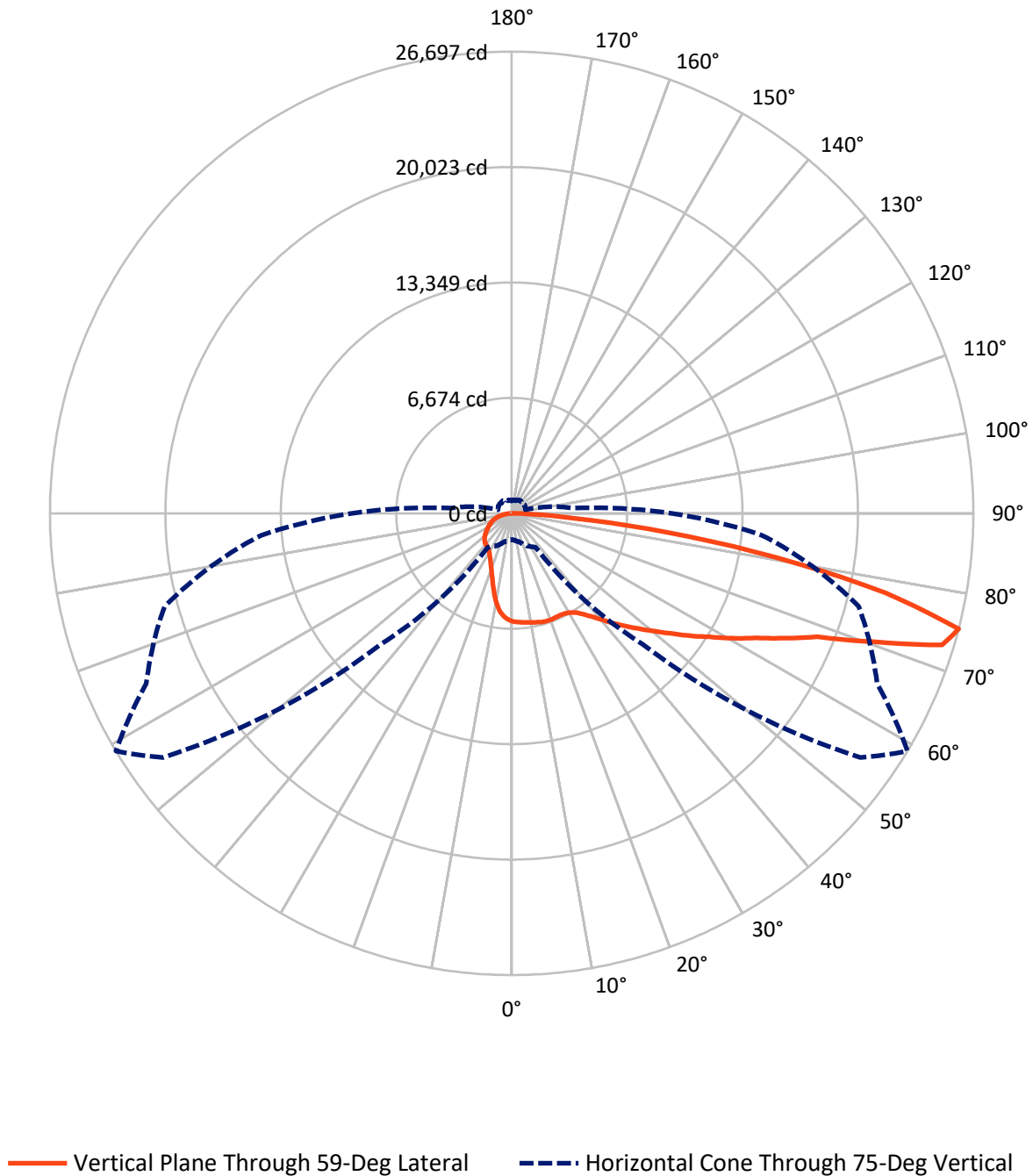
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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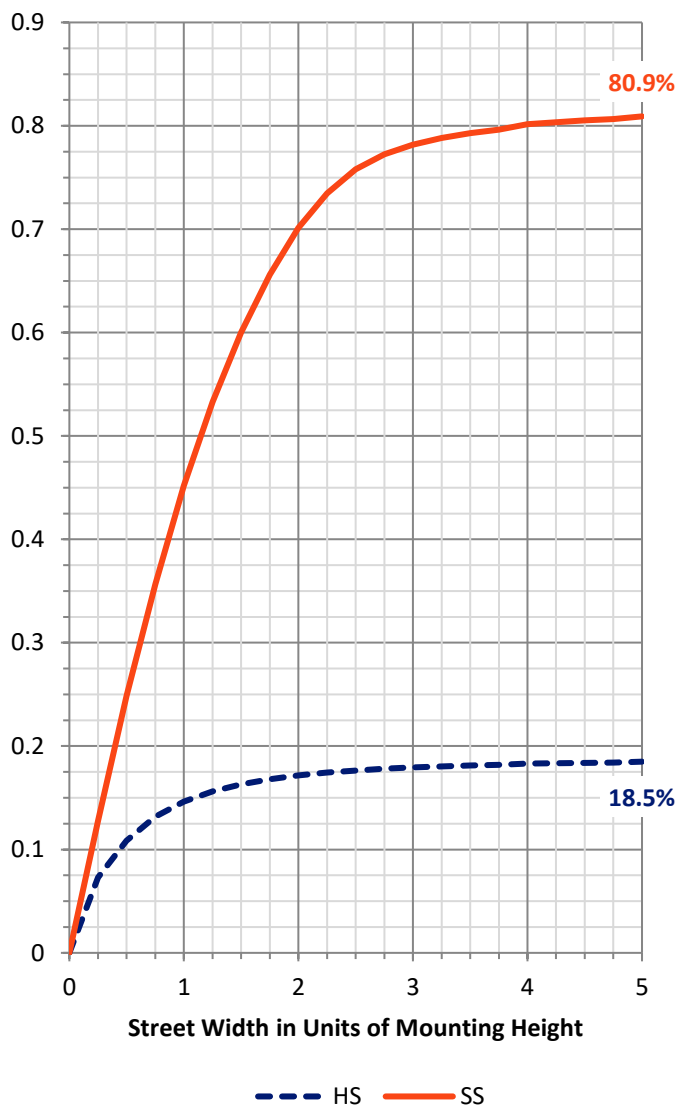
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6386.8	0.0	6386.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27665.8	0.0	27665.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	34052.6	0.0	34052.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.4	1.6
10°-20°	1432.5	4.2
20°-30°	2175.9	6.4
30°-40°	3234.4	9.5
40°-50°	4810.1	14.1
50°-60°	6529.1	19.2
60°-70°	7971.0	23.4
70°-80°	6255.5	18.4
80°-90°	1083.6	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°	34052.6	100.0
0°-180°	34052.6	100.0

Coefficient of Utilization



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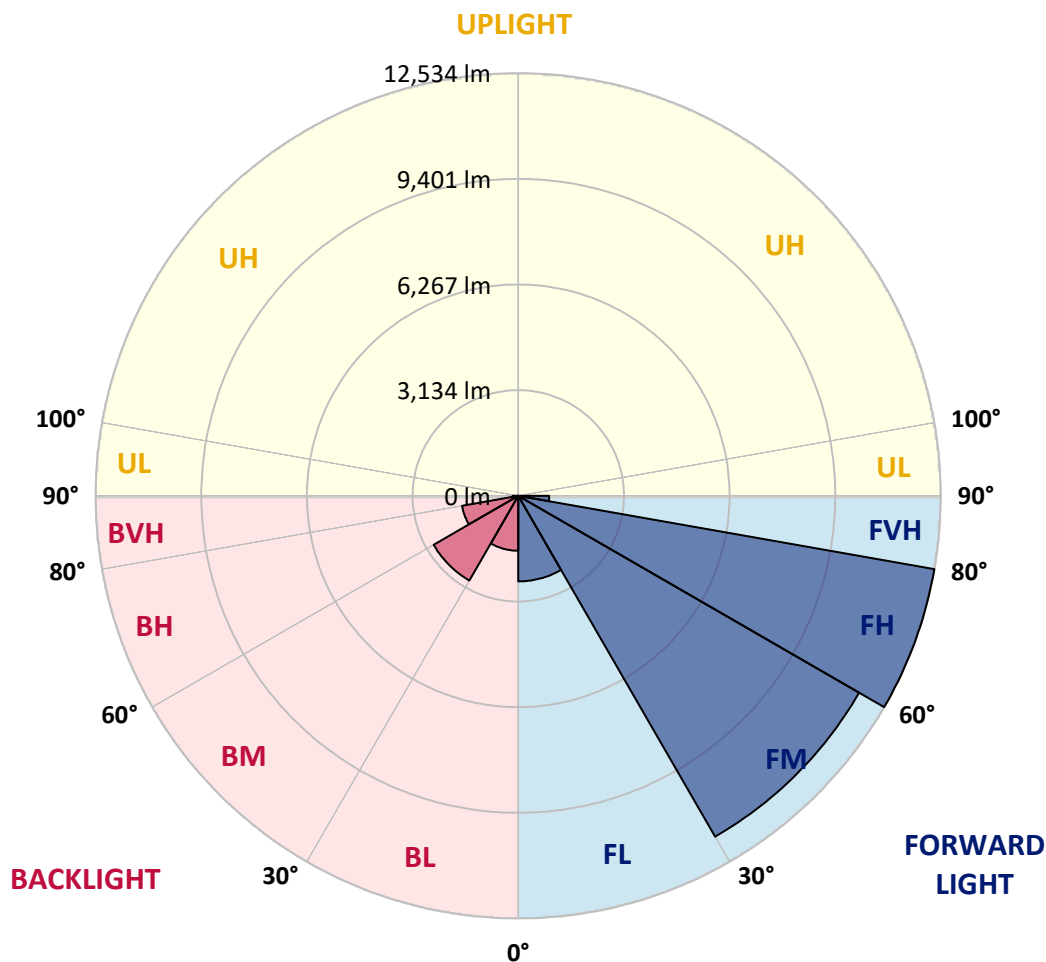
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2539.0	7.5			
FM	(30°-60°)	11674.6	34.3			
FH	(60°-80°)	12534.4	36.8			G5
FVH	(80°-90°)	917.7	2.7			G5
BL	(0°-30°)	1629.8	4.8	B3/2500		
BM	(30°-60°)	2899.0	8.5	B3/5000		
BH	(60°-80°)	1692.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	165.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2
2.5°	6303.4	6281.4	6303.4	6294.2	6290.5	6283.2	6285.1	6297.9	6290.5	6299.8	6268.6
5°	6261.2	6248.4	6270.4	6264.9	6288.8	6292.4	6316.3	6330.9	6340.0	6341.9	6318.0
7.5°	6191.6	6178.8	6210.0	6235.6	6286.9	6301.6	6351.0	6374.9	6387.7	6409.6	6374.9
10°	5937.0	5931.6	6008.4	6105.5	6226.5	6301.6	6376.6	6417.0	6437.1	6495.7	6455.4
12.5°	5486.4	5493.7	5594.4	5781.3	6023.1	6264.9	6405.9	6464.6	6495.7	6569.0	6550.7
15°	5055.9	5054.1	5164.0	5363.6	5702.6	6103.8	6420.6	6521.4	6574.6	6682.6	6667.9
17.5°	4806.7	4799.5	4876.3	5028.4	5343.5	5856.4	6384.0	6552.5	6666.1	6801.7	6788.9
20°	4761.0	4746.4	4786.6	4861.7	5085.2	5585.3	6288.8	6552.5	6739.4	6915.3	6907.9
22.5°	4927.7	4903.9	4887.4	4878.2	4977.1	5361.8	6180.6	6530.6	6847.4	7078.2	7065.4
25°	5262.9	5226.3	5142.0	5059.6	5030.3	5261.1	6085.4	6525.0	7008.6	7298.1	7250.4
27.5°	5805.1	5759.4	5589.0	5391.1	5213.5	5312.4	6043.3	6558.1	7186.4	7530.8	7435.5
30°	6477.4	6428.0	6213.7	5909.5	5590.8	5502.9	6096.4	6655.1	7413.5	7840.3	7653.5
32.5°	7080.1	7025.1	6842.0	6532.3	6101.9	5832.6	6264.9	6840.1	7770.7	8270.8	7981.4
35°	7615.0	7550.9	7386.0	7100.3	6728.4	6296.1	6569.0	7168.0	8278.1	8970.6	8426.5
37.5°	8138.9	8063.8	7884.3	7582.0	7321.9	6913.4	6988.6	7589.3	8952.2	9820.5	9016.4
40°	8725.1	8617.0	8399.1	8100.5	7847.6	7637.0	7539.9	8105.9	9637.4	10769.5	9752.8
42.5°	9293.0	9190.4	8930.3	8675.6	8358.8	8298.3	8179.2	8710.4	10386.6	11811.8	10500.2
45°	9904.8	9782.1	9467.0	9144.6	8945.0	8737.9	8798.4	9315.0	11121.1	12874.2	11284.2
47.5°	10478.2	10340.8	9968.9	9609.9	9500.0	9107.9	9366.2	9979.9	11885.1	13951.4	12060.9
50°	10787.7	10652.2	10342.7	10018.3	9932.2	9564.1	9981.8	10710.8	12685.6	15024.9	12806.5
52.5°	11046.0	10899.5	10494.7	10315.2	10289.5	10060.5	10740.2	11546.1	13486.0	15973.7	13526.4
55°	11320.8	11157.8	10641.2	10480.0	10597.3	10617.4	11639.6	12493.2	14332.4	16898.8	14206.0
57.5°	11637.7	11430.7	10782.3	10619.2	10897.7	11269.6	12672.7	13475.1	15164.1	17756.1	14810.5
60°	11936.3	11727.5	11053.4	10840.9	11221.9	12026.1	13857.9	14664.0	16105.6	18520.0	15382.1
62.5°	11995.0	11822.8	11269.6	11267.7	11661.5	12909.1	15261.1	15863.8	16928.1	19274.7	15895.0
65°	10980.1	10872.1	10544.2	11251.2	12291.7	14180.4	16823.7	17398.9	17974.1	19934.2	16345.6
67.5°	8356.9	8371.6	8347.7	9712.5	11782.5	16006.7	19086.0	19042.0	19265.6	20674.2	16864.0
70°	3821.2	3907.3	4467.9	6704.5	9439.5	16217.3	22826.6	22257.0	20886.7	21632.3	17312.8
72.5°	2064.5	2130.5	2359.4	3247.9	5675.1	14418.5	25622.0	26026.9	23042.8	22277.1	16820.0
75°	1514.9	1551.5	1710.9	2064.5	2383.2	10716.3	24620.1	26697.4	23312.1	20773.2	14524.8
77.5°	1134.0	1150.4	1280.4	1635.8	1220.1	5649.4	19672.2	22110.4	19956.1	17067.4	10729.2
80°	822.5	840.8	937.9	1227.3	855.5	2066.3	13508.1	15519.4	13667.5	10879.3	5347.1
82.5°	567.8	575.2	617.4	835.3	597.2	802.4	7664.4	9100.7	7629.7	3817.6	1443.5
85°	342.6	351.7	370.0	487.3	338.9	381.0	3308.3	3421.9	2280.6	912.2	448.8
87.5°	141.0	150.2	164.8	205.2	133.8	106.3	545.9	685.1	426.8	267.4	139.2
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°	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2	6250.2
2.5°	6259.5	6246.6	6211.8	6164.1	6120.2	6065.2	6041.5	6021.3	6003.0	5968.2	5951.7
5°	6297.9	6263.1	6169.7	6048.7	5911.4	5761.1	5614.6	5513.9	5427.8	5363.6	5310.5
7.5°	6356.5	6290.5	6120.2	5872.9	5557.9	5235.4	4944.2	4737.1	4581.4	4524.7	4425.7
10°	6417.0	6338.2	6041.5	5605.4	5061.4	4564.9	4178.4	3965.9	3841.4	3801.1	3738.8
12.5°	6488.5	6373.0	5918.7	5233.5	4506.3	3962.2	3625.2	3500.7	3436.5	3414.6	3420.0
15°	6592.8	6402.4	5733.6	4768.3	3976.9	3522.6	3304.7	3218.6	3185.6	3183.8	3191.1
17.5°	6671.6	6407.8	5446.1	4270.0	3570.3	3257.0	3077.5	3044.6	3066.5	3099.5	3112.3
20°	6759.6	6358.4	5068.7	3815.8	3284.5	3024.4	2949.2	2971.3	3024.4	3072.0	3088.5
22.5°	6821.8	6268.6	4612.6	3462.2	3037.2	2890.7	2887.0	2932.8	2962.1	2985.9	2998.7
25°	6876.7	6116.6	4129.0	3165.4	2833.9	2810.0	2850.3	2835.7	2815.6	2835.7	2848.5
27.5°	6917.1	5876.5	3696.7	2905.4	2691.0	2755.1	2731.3	2698.3	2696.5	2707.4	2725.8
30°	6904.2	5556.0	3341.3	2658.0	2590.3	2652.5	2595.7	2590.3	2584.7	2590.3	2610.4
32.5°	6904.2	5191.4	3068.3	2487.7	2526.1	2502.3	2496.8	2484.0	2462.0	2460.2	2484.0
35°	6942.7	4826.9	2833.9	2396.0	2473.0	2416.2	2419.9	2388.8	2342.9	2320.9	2342.9
37.5°	7021.5	4533.8	2601.2	2352.1	2379.5	2377.7	2363.0	2309.9	2229.4	2159.8	2183.6
40°	7212.0	4447.7	2441.9	2332.0	2335.6	2357.6	2319.2	2216.6	2033.4	1919.8	1934.5
42.5°	7510.6	4592.4	2407.0	2282.5	2306.2	2328.3	2253.2	2015.0	1885.0	1817.2	1817.2
45°	7889.7	4845.3	2482.1	2211.0	2236.7	2275.2	2051.6	1938.1	1879.4	1881.3	1890.5
47.5°	8369.7	5110.9	2621.3	2148.8	2135.9	2157.9	1918.0	1848.4	1767.7	1787.9	1839.2
50°	8924.8	5380.1	2753.3	2064.5	2024.2	1952.7	1831.9	1765.9	1663.4	1615.7	1628.5
52.5°	9525.6	5640.3	2806.3	1962.0	1903.3	1820.8	1773.2	1692.6	1568.0	1489.3	1487.5
55°	10095.3	5876.5	2747.8	1839.2	1782.4	1718.3	1710.9	1661.5	1527.8	1417.9	1417.9
57.5°	10633.9	6074.5	2601.2	1714.6	1659.7	1621.1	1670.6	1646.9	1478.3	1337.2	1329.9
60°	11090.0	6210.0	2388.8	1588.2	1549.7	1529.6	1604.7	1597.4	1408.7	1251.1	1245.7
62.5°	11452.7	6263.1	2154.2	1467.3	1458.2	1421.5	1513.1	1513.1	1320.7	1166.9	1161.4
65°	11736.7	6211.8	1916.1	1348.3	1366.5	1311.6	1401.4	1390.4	1227.3	1091.8	1084.4
67.5°	11987.6	6043.3	1652.3	1231.0	1273.2	1203.6	1284.1	1258.5	1124.7	1016.7	1009.3
70°	12099.4	5651.2	1351.9	1113.8	1165.0	1097.3	1166.9	1119.3	1009.3	936.0	921.4
72.5°	11201.7	4696.9	1064.3	991.1	1035.0	980.0	1040.5	985.5	884.8	851.8	824.3
75°	9267.3	3524.5	818.9	857.3	890.3	848.2	888.5	848.2	756.6	780.3	712.6
77.5°	6730.3	2379.5	626.5	716.3	730.9	708.9	743.7	697.9	615.5	610.0	582.5
80°	3346.8	1394.0	491.0	566.0	560.6	545.9	586.2	564.2	494.6	523.9	518.4
82.5°	969.0	597.2	357.2	397.5	386.5	390.2	419.5	430.5	644.8	639.3	653.9
85°	304.1	234.5	214.3	221.6	210.6	216.2	247.3	491.0	454.3	265.6	287.6
87.5°	78.7	80.6	53.1	56.8	58.6	69.6	78.7	298.6	142.9	93.4	98.9
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)