

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: P968961

Luminaire Tested: **NAV-SB5C-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968961
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-835-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 35151.3 lumens
Efficiency: N/A
Efficacy: 140.9 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



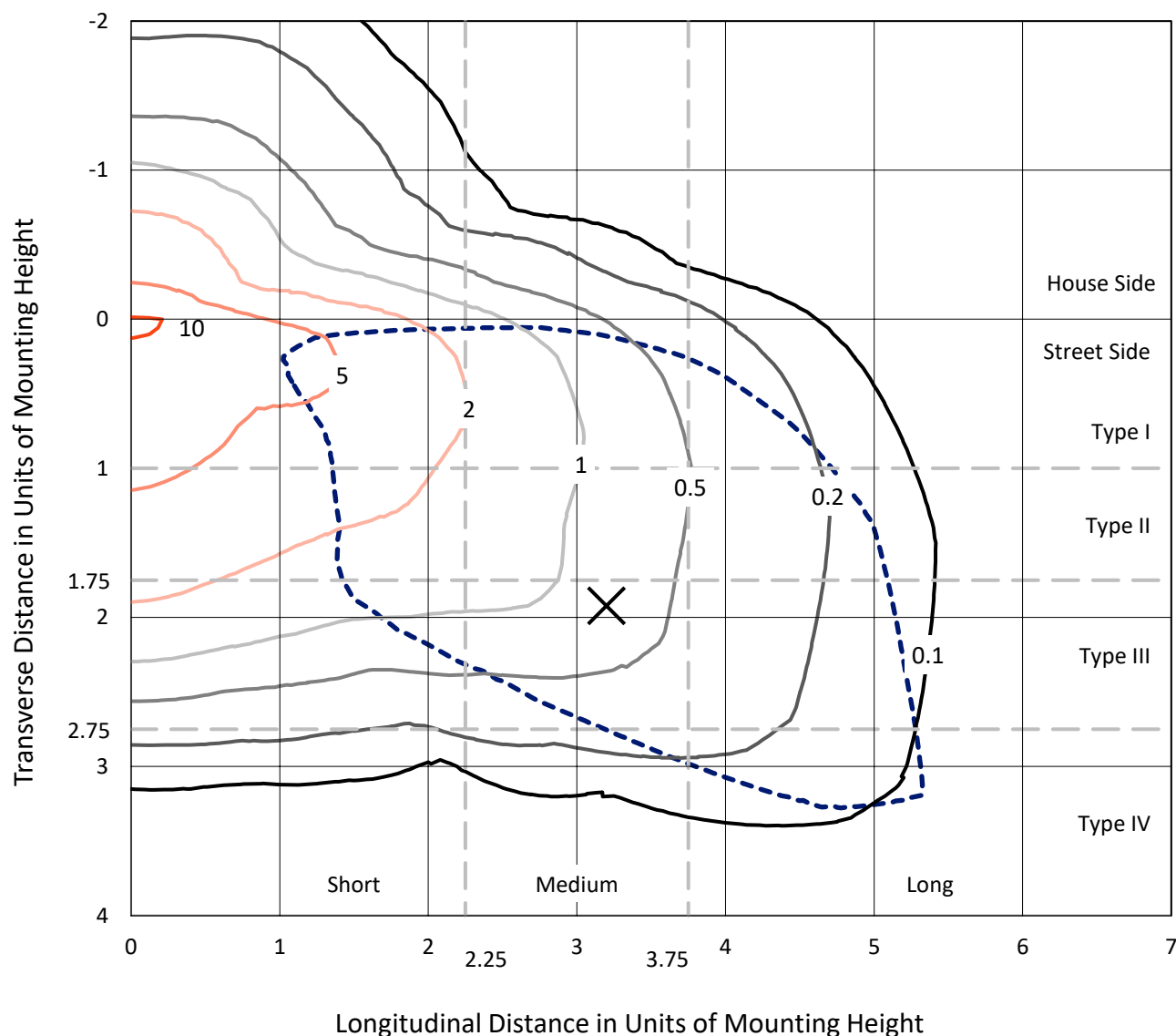
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

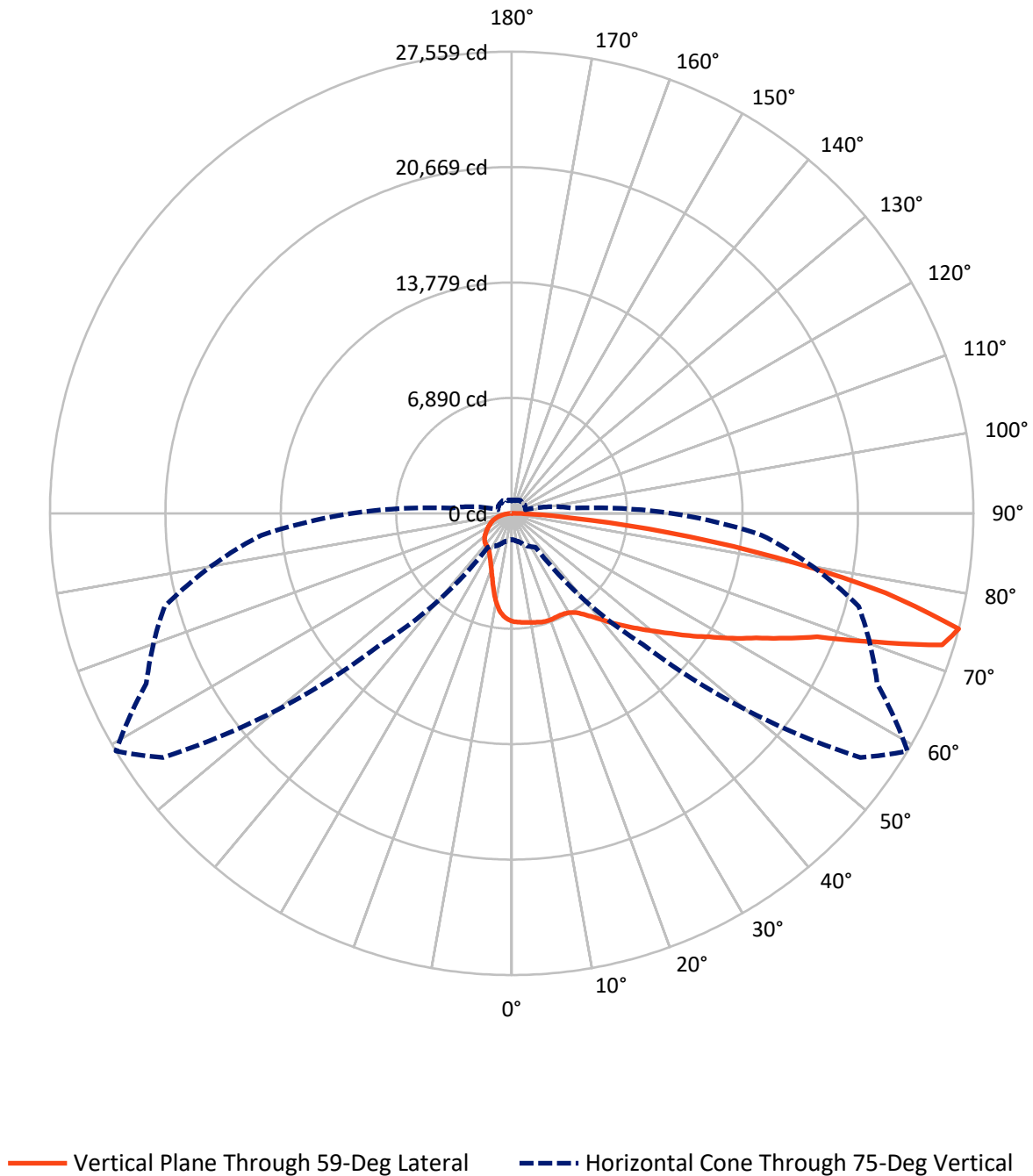
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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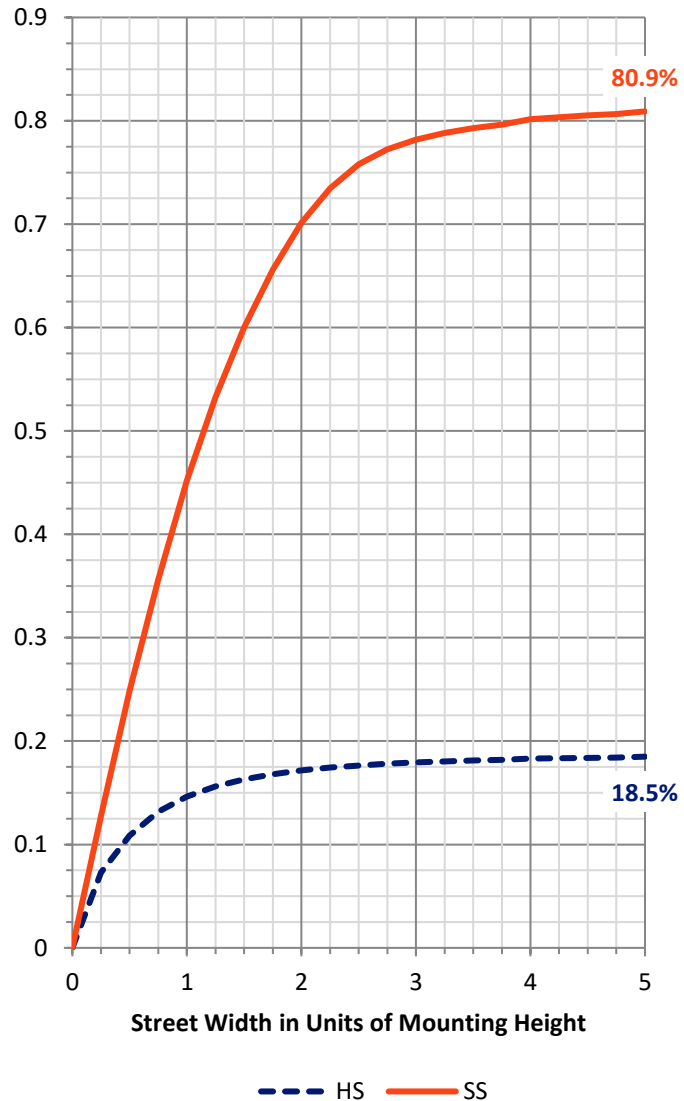
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6592.9	0.0	6592.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28558.5	0.0	28558.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	35151.3	0.0	35151.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.5	1.6
10°-20°	1478.7	4.2
20°-30°	2246.1	6.4
30°-40°	3338.7	9.5
40°-50°	4965.3	14.1
50°-60°	6739.8	19.2
60°-70°	8228.2	23.4
70°-80°	6457.4	18.4
80°-90°	1118.6	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°	35151.3	100.0
0°-180°	35151.3	100.0

Coefficient of Utilization



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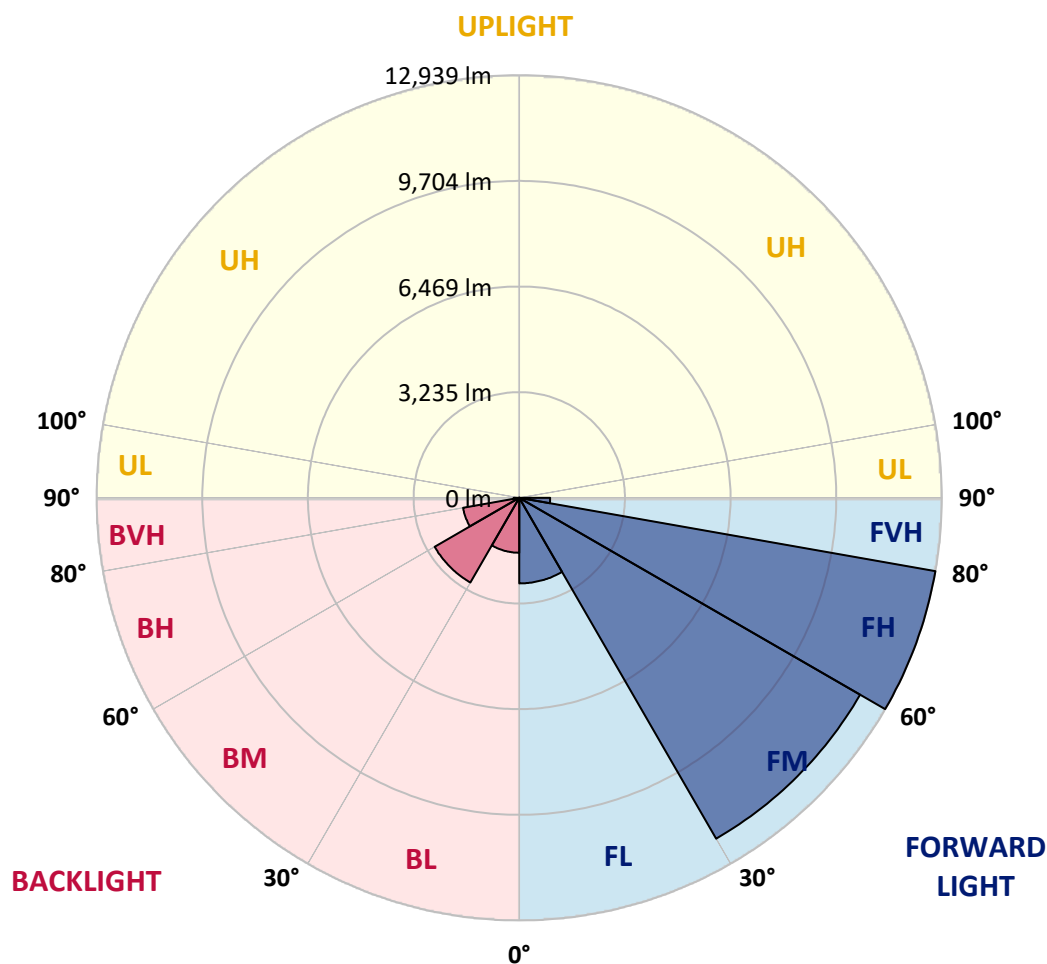
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2620.9	7.5			
FM	(30°-60°)	12051.3	34.3			
FH	(60°-80°)	12938.9	36.8			G5
FVH	(80°-90°)	947.3	2.7			G5
BL	(0°-30°)	1682.4	4.8	B3/2500		
BM	(30°-60°)	2992.5	8.5	B3/5000		
BH	(60°-80°)	1746.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	171.2	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°	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0
2.5°	6506.8	6484.0	6506.8	6497.4	6493.6	6486.0	6487.8	6501.2	6493.6	6503.0	6470.8
5°	6463.3	6450.0	6472.8	6467.0	6491.6	6495.4	6520.0	6535.2	6544.6	6546.5	6521.9
7.5°	6391.5	6378.2	6410.3	6436.8	6489.8	6504.9	6556.0	6580.5	6593.8	6616.5	6580.5
10°	6128.6	6122.9	6202.4	6302.5	6427.4	6504.9	6582.4	6624.1	6644.9	6705.3	6663.7
12.5°	5663.4	5671.0	5775.0	5967.9	6217.4	6467.0	6612.7	6673.2	6705.3	6781.0	6762.0
15°	5219.1	5217.1	5330.6	5536.7	5886.6	6300.7	6627.9	6731.8	6786.6	6898.2	6883.1
17.5°	4961.9	4954.3	5033.8	5190.7	5515.9	6045.3	6590.0	6764.0	6881.2	7021.1	7007.9
20°	4914.6	4899.5	4941.1	5018.6	5249.3	5765.5	6491.6	6764.0	6956.9	7138.4	7130.8
22.5°	5086.7	5062.1	5045.0	5035.6	5137.7	5534.8	6380.1	6741.2	7068.4	7306.7	7293.4
25°	5432.7	5394.9	5308.0	5222.8	5192.5	5430.9	6281.8	6735.6	7234.9	7533.5	7484.4
27.5°	5992.5	5945.2	5769.3	5565.1	5381.7	5483.7	6238.3	6769.6	7418.2	7773.7	7675.4
30°	6686.4	6635.3	6414.1	6100.2	5771.2	5680.4	6293.1	6869.9	7652.8	8093.3	7900.4
32.5°	7308.6	7251.9	7062.8	6743.2	6298.8	6020.8	6467.0	7060.8	8021.4	8537.6	8238.9
35°	7860.7	7794.5	7624.4	7329.4	6945.5	6499.2	6781.0	7399.4	8545.2	9260.1	8698.5
37.5°	8401.5	8324.0	8138.7	7826.7	7558.1	7136.5	7214.1	7834.3	9241.1	10137.5	9307.3
40°	9006.7	8895.1	8670.1	8361.8	8100.9	7883.4	7783.2	8367.5	9948.3	11116.9	10067.4
42.5°	9592.9	9487.0	9218.4	8955.6	8628.4	8566.0	8443.1	8991.5	10721.7	12192.9	10839.0
45°	10224.4	10097.7	9772.5	9439.6	9233.5	9019.9	9082.3	9615.5	11480.0	13289.6	11648.3
47.5°	10816.3	10674.5	10290.6	9919.9	9806.5	9401.8	9668.5	10302.0	12268.5	14401.6	12450.1
50°	11135.9	10995.9	10676.4	10341.6	10252.8	9872.7	10303.8	11056.5	13094.9	15509.7	13219.7
52.5°	11402.5	11251.2	10833.3	10648.0	10621.6	10385.2	11086.7	11918.7	13921.2	16489.2	13962.9
55°	11686.1	11517.8	10984.6	10818.2	10939.2	10960.0	12015.2	12896.3	14794.8	17444.1	14664.4
57.5°	12013.3	11799.6	11130.2	10961.9	11249.3	11633.1	13081.7	13909.9	15653.4	18329.0	15288.4
60°	12321.5	12106.0	11410.1	11190.7	11584.0	12414.2	14305.1	15137.1	16625.3	19117.6	15878.4
62.5°	12382.0	12204.3	11633.1	11631.3	12037.8	13325.6	15753.5	16375.7	17474.3	19896.7	16407.9
65°	11334.4	11222.8	10884.4	11614.3	12688.4	14637.9	17366.6	17960.4	18554.1	20577.4	16873.0
67.5°	8626.6	8641.7	8617.1	10025.8	12162.6	16523.2	19701.9	19656.5	19887.3	21341.3	17408.2
70°	3944.5	4033.4	4612.1	6920.9	9744.2	16740.7	23563.2	22975.2	21560.7	22330.3	17871.5
72.5°	2131.1	2199.1	2435.6	3352.7	5858.2	14883.7	26448.8	26866.8	23786.4	22996.0	17362.8
75°	1563.8	1601.7	1766.2	2131.1	2460.1	11062.1	25414.5	27558.9	24064.3	21443.5	14993.4
77.5°	1170.6	1187.6	1321.7	1688.6	1259.4	5831.7	20307.0	22823.9	20600.1	17618.1	11075.3
80°	849.0	868.0	968.2	1266.9	883.0	2133.0	13943.9	16020.2	14108.4	11230.4	5519.7
82.5°	586.2	593.8	637.2	862.2	616.4	828.2	7911.8	9394.3	7875.9	3940.7	1490.0
85°	353.6	363.1	382.0	503.0	349.8	393.3	3415.1	3532.4	2354.2	941.7	463.3
87.5°	145.7	155.1	170.1	211.8	138.1	109.7	563.5	707.2	440.5	276.0	143.7
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°	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0
2.5°	6461.4	6448.2	6412.2	6363.1	6317.7	6261.0	6236.4	6215.6	6196.6	6160.8	6143.7
5°	6501.2	6465.2	6368.7	6244.0	6102.1	5947.0	5795.8	5691.8	5603.0	5536.7	5481.9
7.5°	6561.6	6493.6	6317.7	6062.5	5737.1	5404.3	5103.7	4890.1	4729.2	4670.6	4568.5
10°	6624.1	6542.7	6236.4	5786.3	5224.7	4712.2	4313.3	4094.0	3965.3	3923.7	3859.4
12.5°	6697.8	6578.7	6109.7	5402.5	4651.8	4090.2	3742.2	3613.6	3547.4	3524.8	3530.4
15°	6805.6	6608.9	5918.7	4922.2	4105.2	3636.3	3411.3	3322.4	3288.4	3286.5	3294.0
17.5°	6886.9	6614.5	5621.8	4407.8	3685.5	3362.1	3176.8	3142.8	3165.5	3199.5	3212.8
20°	6977.7	6563.5	5232.3	3938.9	3390.5	3121.9	3044.5	3067.1	3121.9	3171.1	3188.2
22.5°	7042.0	6470.8	4761.4	3573.9	3135.2	2984.0	2980.2	3027.4	3057.7	3082.3	3095.5
25°	7098.6	6313.9	4262.3	3267.6	2925.4	2900.7	2942.4	2927.2	2906.4	2927.2	2940.4
27.5°	7140.3	6066.2	3816.0	2999.0	2777.9	2844.0	2819.5	2785.3	2783.5	2794.9	2813.7
30°	7127.0	5735.3	3449.1	2743.8	2673.8	2738.1	2679.5	2673.8	2668.2	2673.8	2694.6
32.5°	7127.0	5359.0	3167.4	2567.9	2607.6	2583.0	2577.4	2564.1	2541.5	2539.5	2564.1
35°	7166.7	4982.6	2925.4	2473.3	2552.8	2494.1	2497.9	2465.8	2418.5	2395.8	2418.5
37.5°	7248.1	4680.2	2685.2	2428.0	2456.3	2454.5	2439.3	2384.5	2301.3	2229.5	2254.0
40°	7444.7	4591.3	2520.7	2407.2	2411.0	2433.7	2394.0	2288.1	2099.0	1981.7	1996.8
42.5°	7752.9	4740.6	2484.7	2356.2	2380.8	2403.4	2325.9	2080.0	1945.8	1875.9	1875.9
45°	8144.3	5001.6	2562.3	2282.4	2308.8	2348.6	2117.9	2000.6	1940.1	1942.0	1951.5
47.5°	8639.8	5275.8	2706.0	2218.1	2204.9	2227.5	1979.8	1907.9	1824.8	1845.6	1898.5
50°	9212.8	5553.8	2842.1	2131.1	2089.5	2015.8	1890.9	1822.9	1717.0	1667.8	1681.1
52.5°	9833.0	5822.3	2897.0	2025.2	1964.7	1879.6	1830.4	1747.2	1618.7	1537.4	1535.4
55°	10421.1	6066.2	2836.5	1898.5	1839.9	1773.8	1766.2	1715.1	1577.1	1463.6	1463.6
57.5°	10977.0	6270.4	2685.2	1770.0	1713.2	1673.5	1724.6	1700.0	1526.0	1380.4	1372.9
60°	11447.8	6410.3	2465.8	1639.5	1599.7	1578.9	1656.5	1648.9	1454.2	1291.5	1285.9
62.5°	11822.2	6465.2	2223.7	1514.6	1505.2	1467.4	1561.9	1561.9	1363.4	1204.6	1198.8
65°	12115.4	6412.2	1977.9	1391.7	1410.6	1353.9	1446.6	1435.2	1266.9	1127.0	1119.4
67.5°	12374.4	6238.3	1705.6	1270.7	1314.3	1242.4	1325.5	1299.1	1161.0	1049.5	1041.9
70°	12489.8	5833.6	1395.5	1149.7	1202.6	1132.7	1204.6	1155.4	1041.9	966.3	951.2
72.5°	11563.2	4848.5	1098.7	1023.1	1068.4	1011.7	1074.1	1017.3	913.4	879.2	851.0
75°	9566.3	3638.2	845.2	885.0	919.0	875.6	917.1	875.6	780.9	805.5	735.5
77.5°	6947.3	2456.3	646.7	739.3	754.5	731.8	767.7	720.5	635.4	629.7	601.4
80°	3454.8	1439.0	506.8	584.4	578.6	563.5	605.1	582.4	510.6	540.8	535.2
82.5°	1000.3	616.4	368.7	410.3	399.0	402.8	433.1	444.3	665.6	659.9	675.1
85°	313.9	242.0	221.2	228.8	217.5	223.1	255.3	506.8	468.9	274.2	296.8
87.5°	81.3	83.2	54.8	58.6	60.5	71.9	81.3	308.2	147.5	96.5	102.1
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)