

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: P970912

Luminaire Tested: **NAV-SB6C-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48949.9 lumens
Efficiency: N/A
Efficacy: 162.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 300.9
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

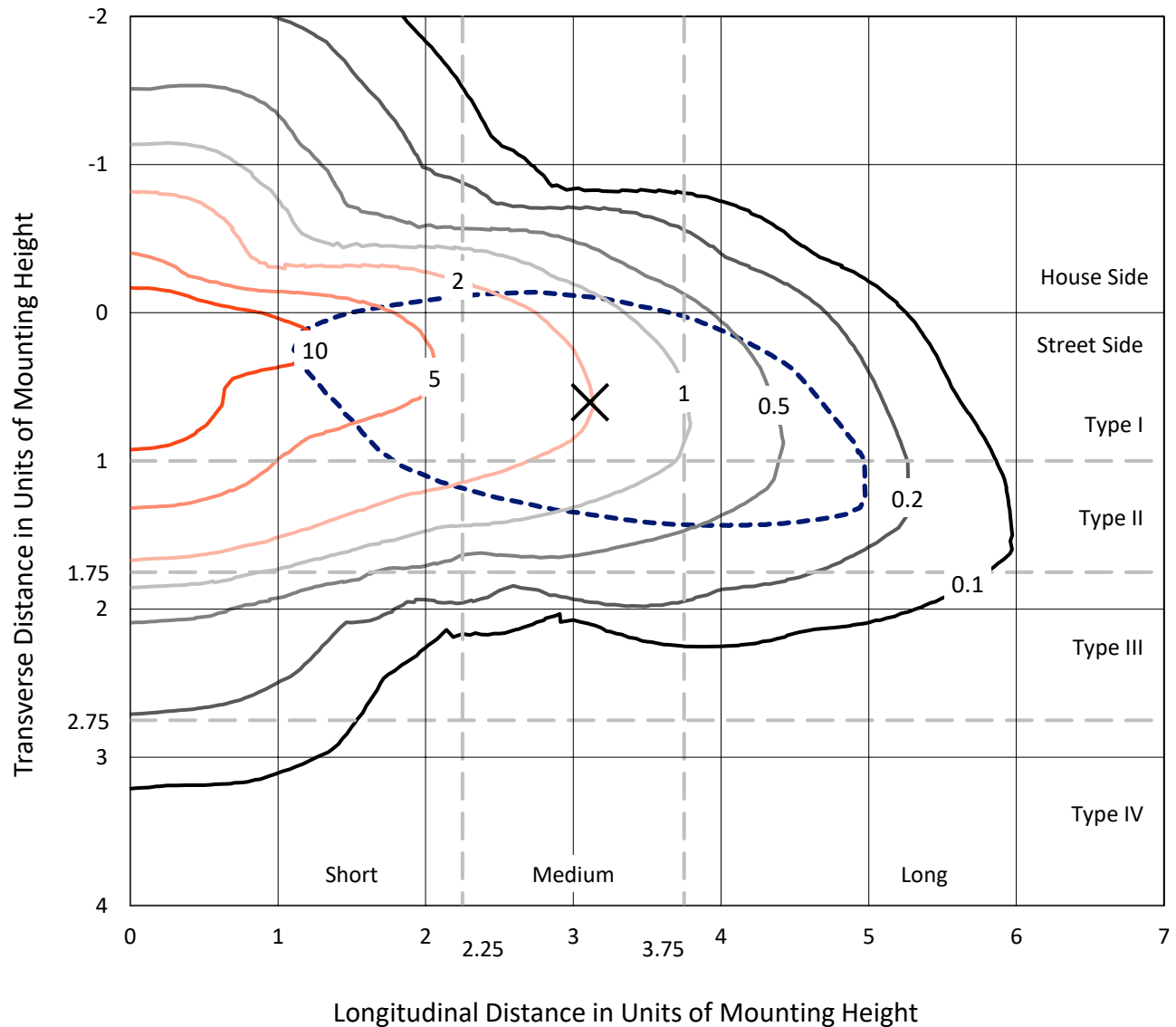


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Iso-Footcandle Lines of Horizontal Illumination

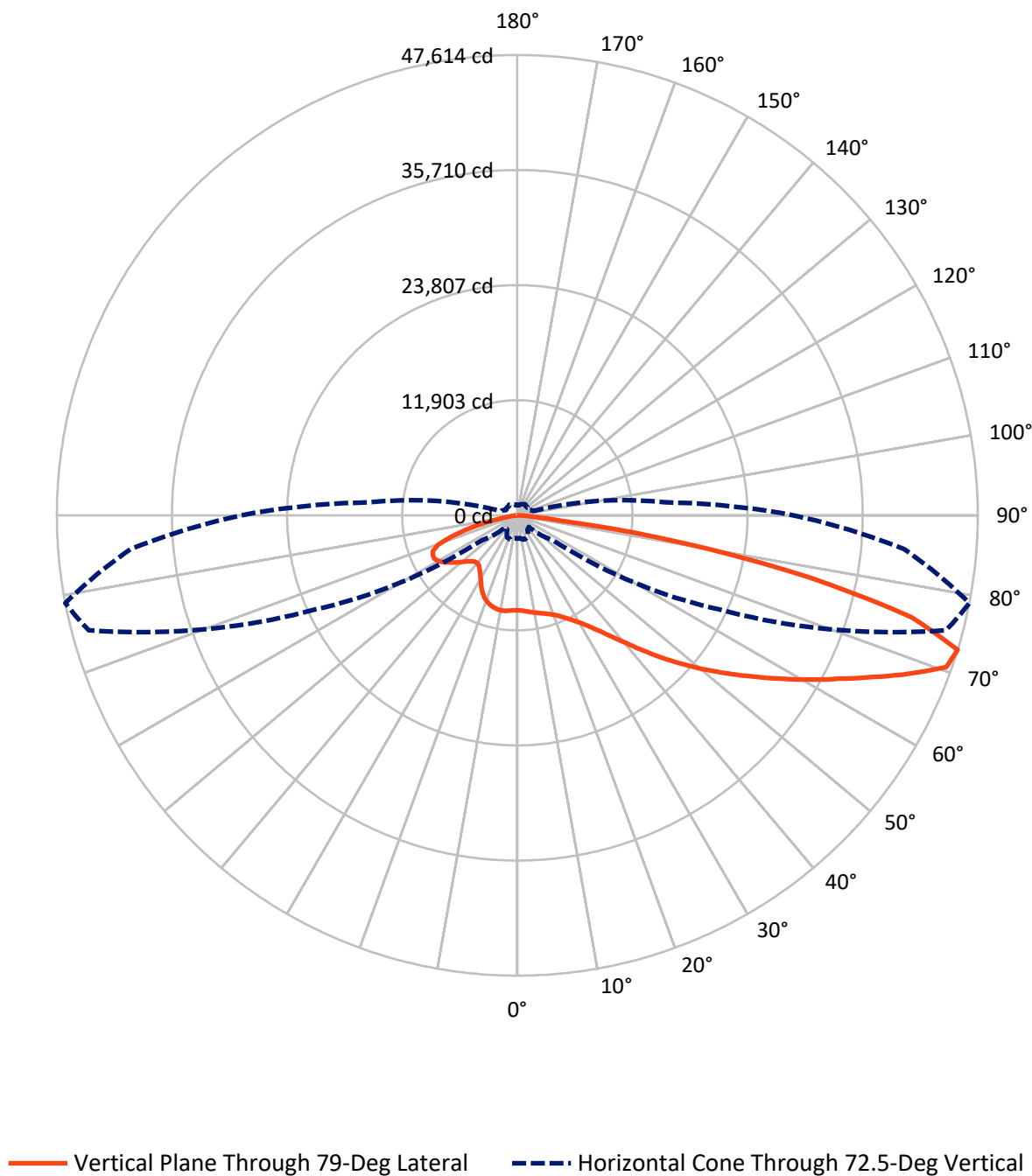
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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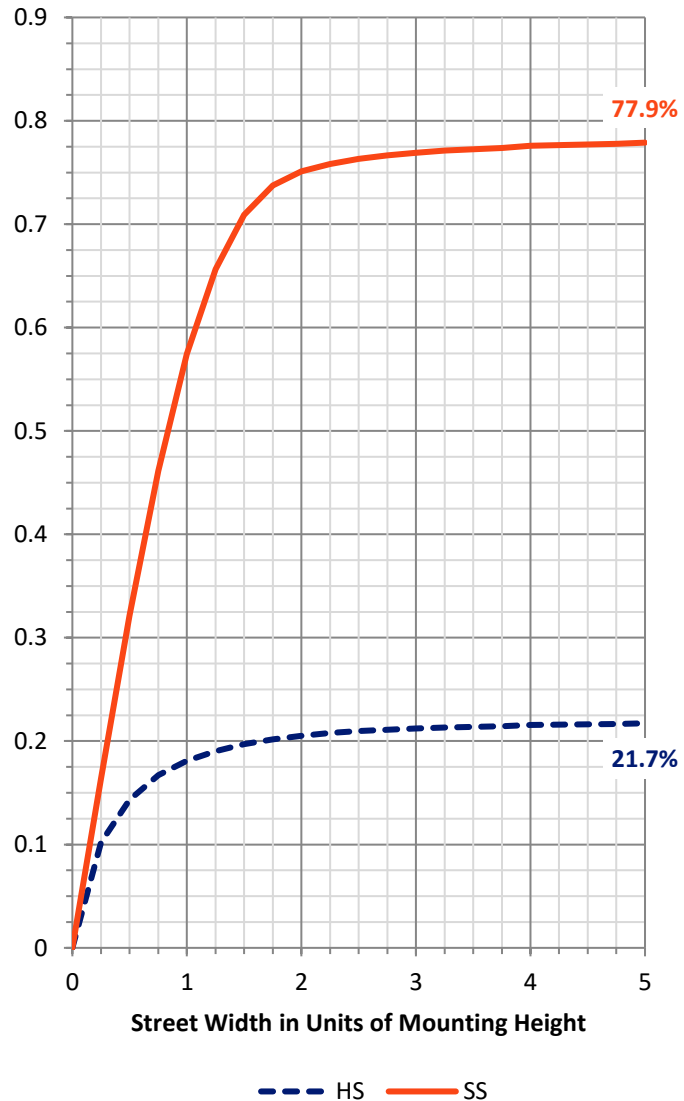
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10771.7	0.0	10771.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	38178.2	0.0	38178.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	48949.9	0.0	48949.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.9	1.8
10°-20°	2332.0	4.8
20°-30°	3762.8	7.7
30°-40°	5647.5	11.5
40°-50°	8011.3	16.4
50°-60°	10117.2	20.7
60°-70°	10275.4	21.0
70°-80°	7003.1	14.3
80°-90°	908.6	1.9
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°	48949.9	100.0
0°-180°	48949.9	100.0

Coefficient of Utilization



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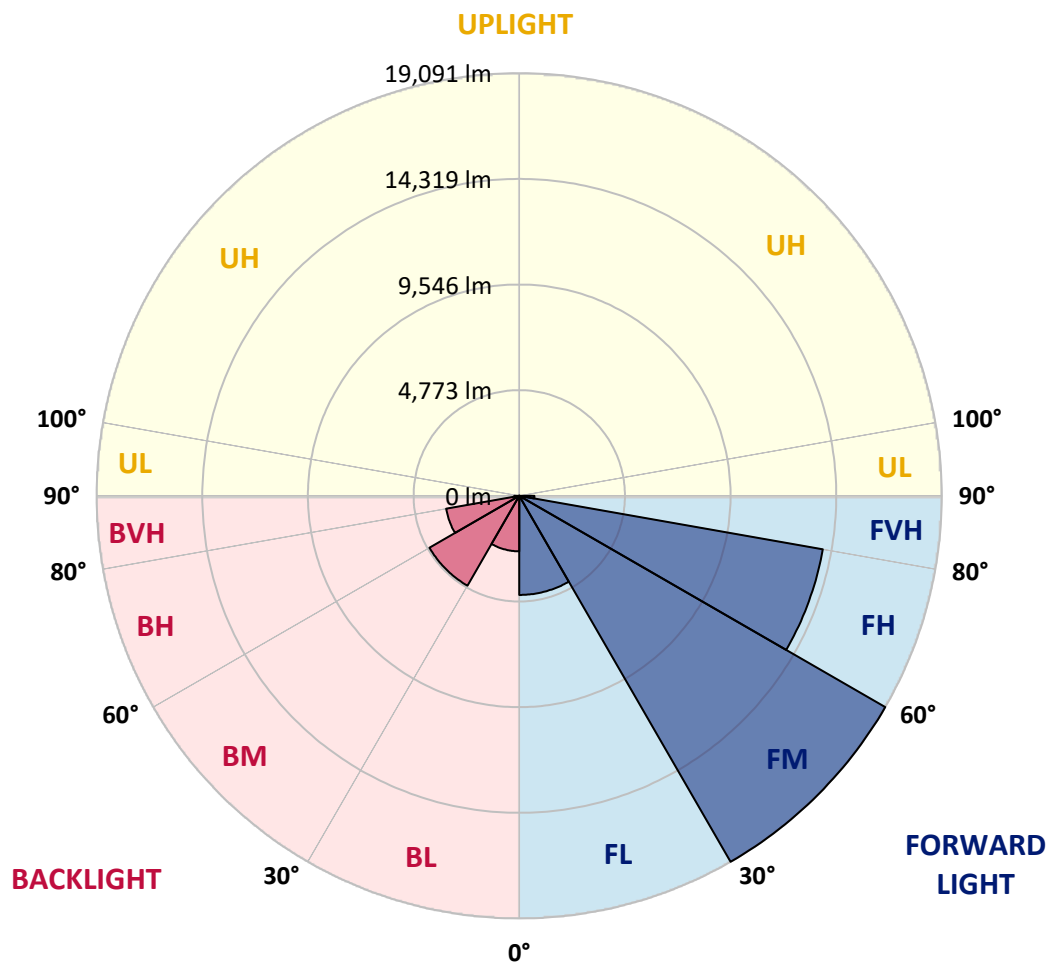
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4477.7	9.1			
FM	(30°-60°)	19091.4	39.0			
FH	(60°-80°)	13924.6	28.4			G5
FVH	(80°-90°)	684.5	1.4			G4/750
BL	(0°-30°)	2509.0	5.1	B4/5000		
BM	(30°-60°)	4684.5	9.6	B3/5000		
BH	(60°-80°)	3354.0	6.9	B4/5000		G4/5000
BVH	(80°-90°)	224.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3
2.5°	9831.4	9784.8	9813.2	9802.9	9815.9	9831.4	9836.6	9844.3	9870.2	9867.7	9865.1
5°	9810.7	9764.0	9802.9	9790.0	9823.6	9859.9	9890.9	9919.4	9960.8	9979.0	9953.1
7.5°	9766.7	9735.6	9774.4	9813.2	9875.5	9929.8	9973.9	10038.5	10098.1	10108.4	10126.6
10°	9510.4	9487.0	9577.7	9678.7	9849.5	9997.1	10093.0	10168.0	10232.8	10243.1	10269.0
12.5°	9243.7	9215.2	9316.1	9453.4	9730.4	9997.1	10199.1	10297.5	10354.4	10388.1	10426.9
15°	9199.6	9176.3	9233.3	9352.4	9582.8	9927.2	10271.6	10452.8	10502.0	10540.9	10556.4
17.5°	9412.0	9367.9	9391.3	9432.7	9567.3	9862.4	10328.5	10628.9	10704.0	10745.4	10745.4
20°	9903.9	9841.7	9805.6	9722.6	9699.4	9872.8	10323.4	10841.2	10939.6	10991.4	11004.3
22.5°	10559.0	10517.5	10439.8	10230.1	10002.3	9999.7	10421.8	11113.0	11296.9	11346.1	11315.1
25°	11351.3	11289.1	11190.7	10905.9	10468.3	10250.8	10587.4	11460.0	11768.1	11781.1	11690.5
27.5°	12262.7	12169.5	12034.8	11659.4	11069.1	10644.4	10841.2	11858.8	12309.3	12304.1	12117.8
30°	13223.3	13130.1	12987.7	12532.0	11788.8	11175.3	11193.3	12288.6	12951.5	12923.0	12604.5
32.5°	13925.0	13855.1	13826.6	13474.4	12617.4	11801.8	11597.3	12765.0	13743.8	13717.9	13272.5
35°	14463.6	14373.0	14406.6	14227.9	13521.1	12503.6	12091.8	13332.1	14707.0	14704.3	14150.3
37.5°	14997.0	14916.7	14945.2	14826.1	14357.4	13394.2	12695.1	14026.0	15900.6	15957.6	15211.9
40°	15483.8	15398.3	15512.2	15400.9	15007.3	14341.9	13381.3	14810.5	17283.2	17392.0	16496.1
42.5°	15776.3	15709.0	15898.1	15900.6	15571.8	15142.0	14134.7	15675.3	18883.5	19126.8	18075.6
45°	15877.4	15854.0	16138.8	16198.4	16071.5	15605.4	14813.1	16617.8	20607.9	21042.8	19875.2
47.5°	15768.6	15724.5	16118.1	16338.2	16439.2	15822.9	15375.0	17638.0	22368.6	23005.5	21837.8
50°	15219.6	15134.2	15719.4	16182.8	16542.8	15965.4	15942.0	18816.1	24370.1	25066.6	23810.7
52.5°	14233.2	14168.4	14833.8	15639.1	16314.9	16035.3	16579.0	20103.0	26270.5	27171.6	25833.0
55°	12972.2	12886.7	13619.5	14670.7	15747.9	16011.9	17216.0	21542.6	28512.9	29426.9	27922.5
57.5°	10973.2	10802.4	11729.3	12972.2	14823.4	15983.4	17878.8	22974.5	30791.4	31886.7	30151.9
60°	8057.7	7804.0	8940.7	10414.0	13016.2	15706.4	18699.6	24579.8	33525.7	34512.2	32585.8
62.5°	4691.7	4544.1	5287.3	6662.2	9810.7	14075.2	19160.5	26446.6	36213.4	37249.0	34978.2
65°	3643.1	3601.6	3666.4	3772.5	5460.8	10538.2	17739.0	28266.9	39631.1	40356.1	37471.7
67.5°	3332.4	3301.3	3329.8	3130.5	2770.5	5869.9	14033.8	28727.8	43292.4	43732.5	39654.5
70°	2962.1	2925.9	3019.0	2848.2	2180.2	2669.5	9067.6	27055.2	46205.3	47031.2	41314.2
72.5°	2413.2	2371.7	2589.3	2511.6	1835.8	1714.1	4554.5	23080.6	45899.7	47613.8	40125.7
75°	1853.9	1830.6	2089.6	2154.2	1496.6	1349.0	2185.3	17156.4	40392.4	42119.4	34582.1
77.5°	1439.6	1421.5	1553.6	1789.1	1206.6	1046.0	1343.8	10882.6	30439.3	30742.2	23831.6
80°	1079.7	1028.0	1149.6	1385.3	939.9	763.8	911.4	6346.3	19240.8	17441.2	10372.6
82.5°	675.8	650.0	750.9	924.3	662.9	525.6	593.0	3505.8	7710.8	4541.6	2001.5
85°	385.8	375.5	409.1	528.2	359.9	303.0	339.2	1548.4	1408.6	968.4	603.3
87.5°	155.4	150.2	186.4	235.6	132.0	111.3	119.1	372.9	310.7	287.4	199.4
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°	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3	9826.3
2.5°	9854.8	9854.8	9818.5	9761.5	9696.8	9655.3	9588.1	9569.9	9500.0	9479.3	9512.9
5°	9973.9	9953.1	9841.7	9681.2	9461.2	9259.1	9036.5	8896.7	8699.9	8630.0	8681.8
7.5°	10124.0	10067.0	9875.5	9523.3	9062.4	8609.3	8138.0	7780.7	7438.9	7317.3	7332.7
10°	10261.2	10180.9	9854.8	9238.4	8441.0	7656.4	6905.5	6379.9	5981.2	5818.1	5854.3
12.5°	10398.4	10250.8	9717.5	8764.7	7558.0	6493.9	5693.8	5284.7	5038.7	4841.9	4906.7
15°	10527.9	10320.7	9505.1	8130.3	6589.6	5509.9	4919.6	4593.3	4396.5	4267.1	4290.4
17.5°	10678.1	10380.3	9186.7	7325.0	5667.8	4829.0	4347.3	4150.5	4111.8	4096.2	4106.6
20°	10887.9	10434.7	8767.2	6424.0	4989.5	4285.2	4036.7	4018.5	4016.0	4008.2	4034.1
22.5°	11113.0	10499.4	8213.1	5605.7	4412.1	3946.0	3902.0	3865.8	3842.4	3839.9	3868.3
25°	11379.8	10520.2	7519.2	4935.2	3920.1	3785.5	3733.7	3679.3	3663.8	3663.8	3679.3
27.5°	11638.7	10450.3	6711.4	4352.6	3643.1	3637.9	3570.6	3552.4	3549.9	3557.7	3578.4
30°	11897.6	10318.2	5908.7	3814.0	3482.5	3482.5	3459.3	3472.2	3482.5	3508.5	3526.6
32.5°	12247.2	10178.4	5238.1	3415.2	3342.7	3316.8	3340.2	3366.0	3376.4	3410.1	3438.6
35°	12759.8	10080.0	4704.6	3197.7	3197.7	3164.1	3177.0	3171.9	3148.5	3133.0	3169.3
37.5°	13438.3	10074.8	4264.5	3096.7	3076.0	3070.9	3073.5	3039.7	2949.1	2840.4	2843.0
40°	14253.9	10214.6	3925.3	3026.8	3011.3	3042.4	3026.8	2936.2	2687.7	2498.6	2493.4
42.5°	15349.1	10613.4	3707.8	2941.4	2988.0	3026.8	2964.7	2651.4	2483.1	2356.3	2351.0
45°	16638.5	11260.6	3596.5	2850.7	2944.0	2990.5	2690.2	2553.0	2418.4	2265.6	2255.2
47.5°	18098.9	12076.2	3570.6	2765.3	2845.6	2874.1	2573.7	2511.6	2358.8	2193.1	2180.2
50°	19688.7	13042.1	3640.5	2664.4	2703.2	2604.8	2534.9	2477.9	2320.0	2156.8	2138.8
52.5°	21332.9	14106.3	3780.3	2527.1	2560.8	2452.0	2519.3	2470.1	2296.7	2076.5	2061.1
55°	22948.6	15178.2	3915.0	2366.6	2415.8	2314.8	2475.4	2439.1	2190.5	1942.0	1928.9
57.5°	24590.2	16245.0	4047.0	2224.1	2275.9	2182.7	2405.5	2356.3	2071.4	1817.6	1812.5
60°	26296.5	17280.7	4109.1	2086.9	2123.2	2061.1	2299.3	2213.8	1936.7	1690.7	1683.0
62.5°	27894.0	18142.9	4008.2	1949.8	1973.0	1947.1	2159.5	2045.5	1802.2	1548.4	1545.8
65°	29496.8	18655.6	3697.5	1815.1	1820.3	1807.3	1962.7	1864.3	1644.2	1424.1	1408.6
67.5°	30949.4	18943.0	3202.9	1670.0	1657.1	1652.0	1778.8	1667.5	1491.4	1299.8	1284.2
70°	31257.5	18212.8	2446.9	1499.2	1499.2	1486.2	1576.9	1462.9	1323.1	1167.8	1162.6
72.5°	28549.1	15320.7	1737.4	1305.0	1325.7	1299.8	1374.9	1279.1	1152.2	1048.7	1017.6
75°	23021.1	11234.8	1263.5	1105.6	1141.8	1097.9	1167.8	1100.4	991.7	989.1	890.7
77.5°	15817.8	6946.9	916.6	911.4	937.3	880.4	960.6	924.3	825.9	782.0	732.8
80°	6750.2	2770.5	668.0	704.3	704.3	652.5	745.7	756.0	670.7	650.0	650.0
82.5°	1343.8	787.1	468.6	484.2	455.7	440.1	528.2	585.2	807.8	898.5	901.1
85°	404.0	290.0	282.2	264.1	233.0	235.6	310.7	587.7	725.0	414.3	357.3
87.5°	111.3	72.5	75.1	59.6	49.2	64.8	106.2	445.4	243.4	103.5	88.0
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)