

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: P971418

Luminaire Tested: **NAV-SB6D-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46187.5 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - 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



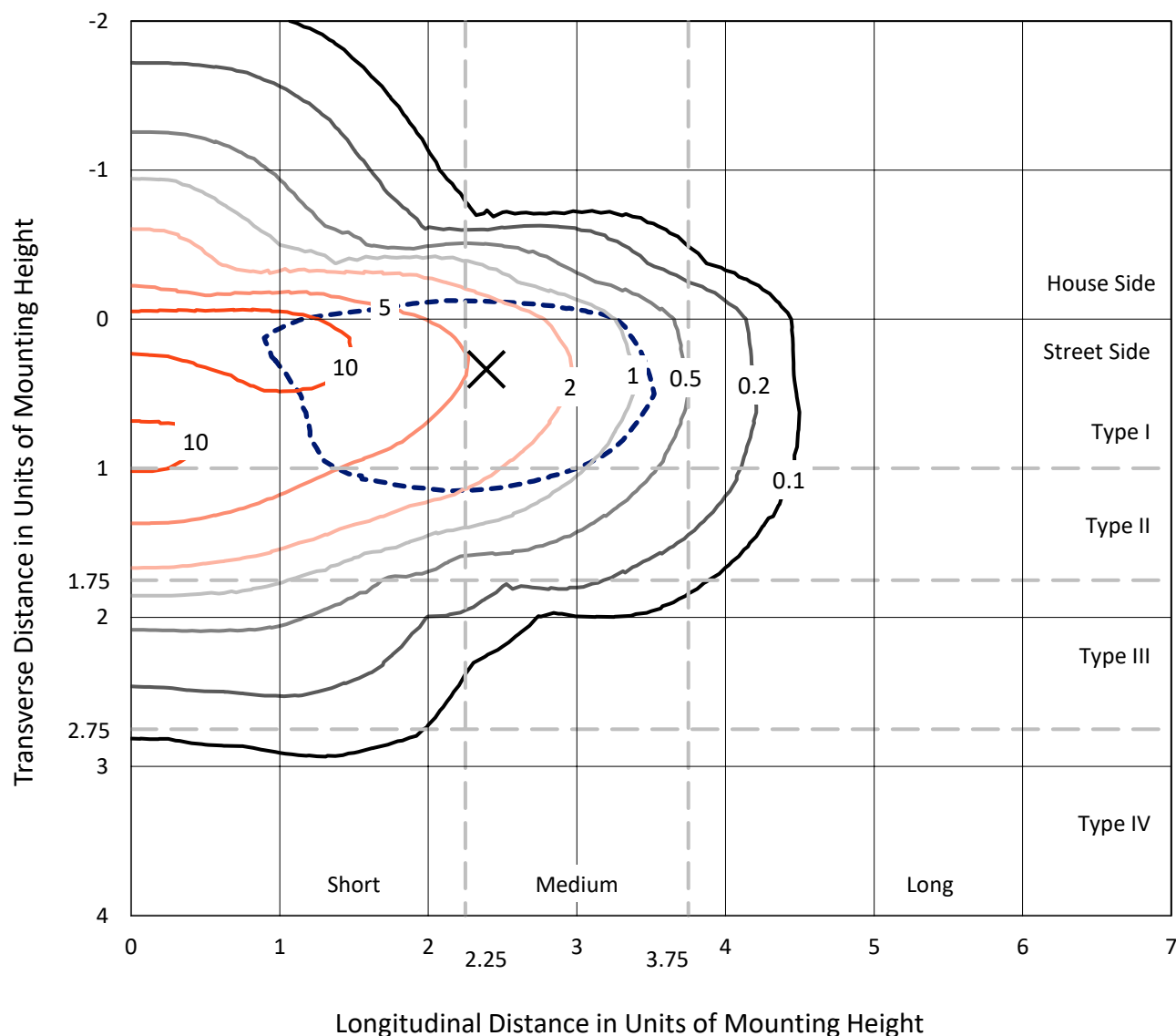
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

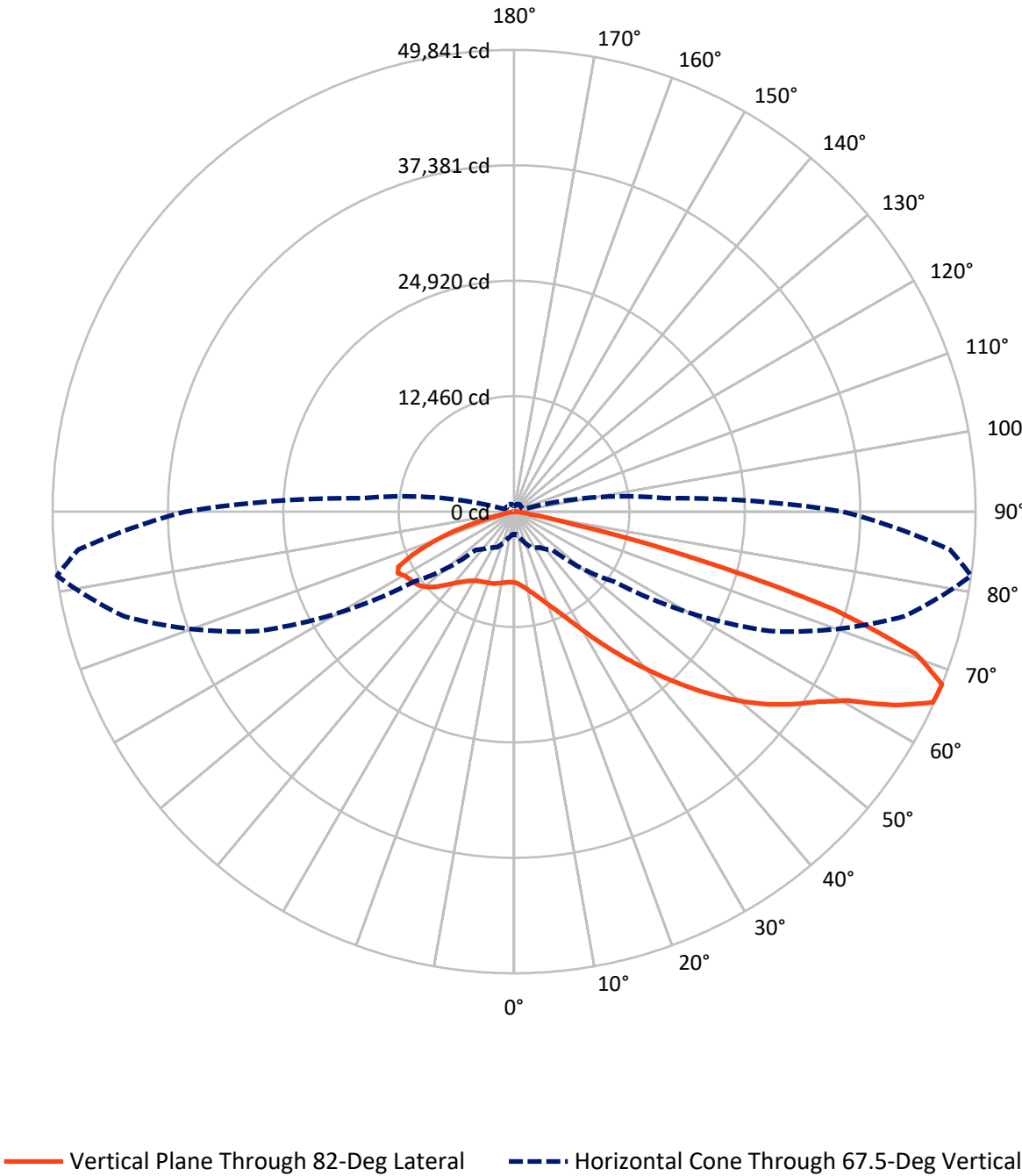
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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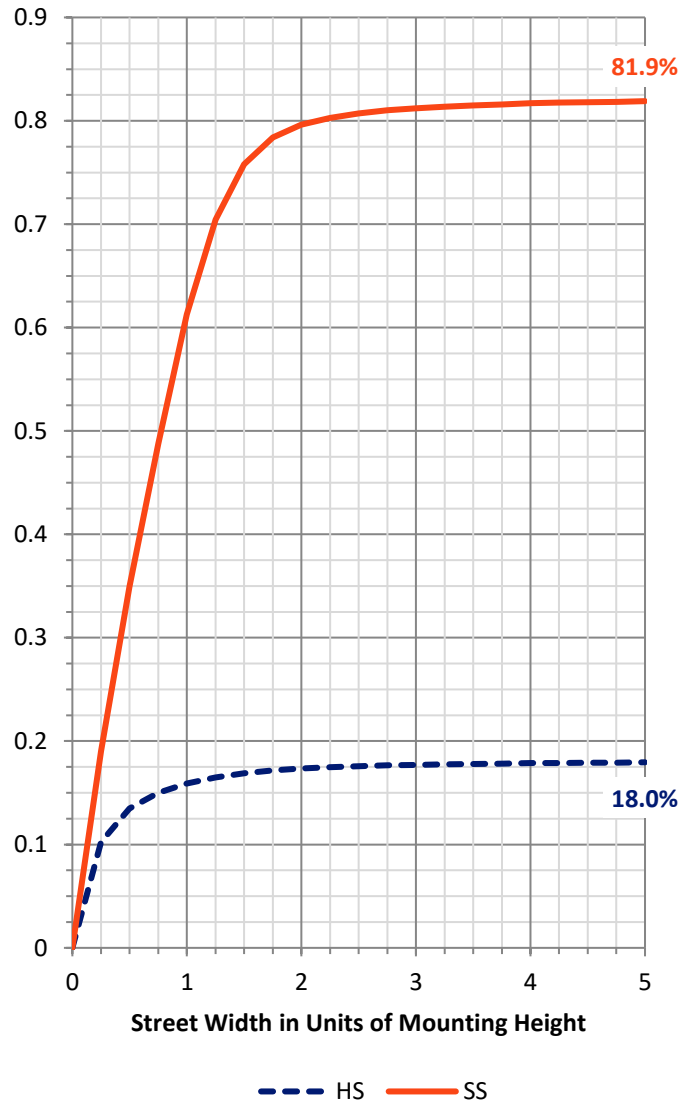
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8366.5	0.0	8366.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	37821.1	0.0	37821.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	46187.5	0.0	46187.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.7	1.5
10°-20°	1771.5	3.8
20°-30°	2837.4	6.1
30°-40°	5017.3	10.9
40°-50°	8790.8	19.0
50°-60°	11724.5	25.4
60°-70°	10914.9	23.6
70°-80°	4189.1	9.1
80°-90°	260.2	0.6
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°	46187.5	100.0
0°-180°	46187.5	100.0

Coefficient of Utilization



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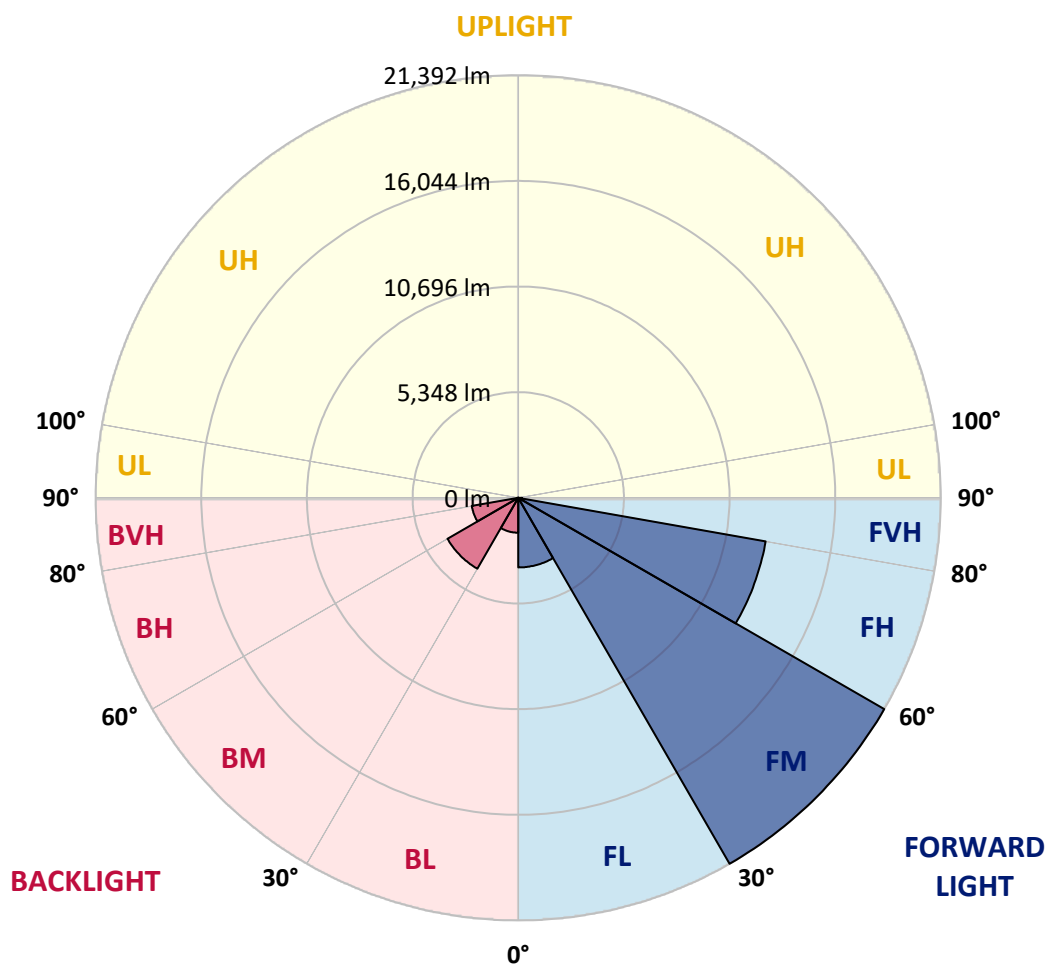
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3523.6	7.6			
FM	(30°-60°)	21392.2	46.3			
FH	(60°-80°)	12716.1	27.5			G5
FVH	(80°-90°)	189.2	0.4			G2/225
BL	(0°-30°)	1767.0	3.8	B3/2500		
BM	(30°-60°)	4140.5	9.0	B3/5000		
BH	(60°-80°)	2387.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	71.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7
2.5°	8087.4	8133.9	8107.2	8094.0	8070.7	8037.4	8010.9	7927.8	7841.2	7784.8	7764.8
5°	8250.3	8296.9	8293.5	8306.8	8323.4	8333.5	8326.8	8233.6	8110.6	8014.2	7957.7
7.5°	8110.6	8163.8	8207.1	8273.6	8389.9	8513.0	8572.8	8552.9	8426.5	8293.5	8223.7
10°	7714.9	7771.4	7874.5	8030.8	8276.9	8542.9	8765.7	8868.8	8789.0	8642.7	8546.2
12.5°	6990.0	7046.5	7249.3	7588.5	8000.8	8463.1	8888.8	9164.7	9184.7	9038.3	8925.3
15°	6175.2	6231.8	6448.0	6873.5	7502.1	8243.7	8955.2	9477.4	9653.6	9527.3	9390.8
17.5°	5669.8	5719.7	5882.6	6225.1	6880.2	7804.7	8932.0	9809.9	10212.3	10112.4	9949.6
20°	5516.9	5560.0	5636.6	5875.9	6421.3	7349.1	8779.0	10122.5	10814.2	10757.6	10574.7
22.5°	5679.7	5719.7	5743.0	5849.4	6191.8	7049.8	8586.1	10441.7	11512.5	11519.2	11296.3
25°	6055.5	6095.5	6068.8	6135.3	6285.0	6956.7	8513.0	10817.4	12390.4	12463.6	12210.8
27.5°	6674.1	6677.4	6614.2	6610.8	6634.1	7096.4	8589.5	11219.9	13497.7	13634.0	13321.5
30°	7914.4	7864.5	7621.8	7359.1	7239.4	7515.4	8802.3	11695.4	14804.6	15047.4	14654.9
32.5°	9826.5	9753.4	9307.7	8679.3	8047.5	8190.5	9184.7	12237.4	16227.9	16666.8	16187.9
35°	11901.6	11881.6	11416.0	10481.6	9377.6	9151.5	9806.6	12949.0	17780.9	18479.2	17910.5
37.5°	13830.3	13820.3	13554.3	12453.5	11110.1	10491.6	10804.2	13880.1	19443.5	20454.5	19782.7
40°	15592.7	15622.6	15356.7	14372.3	13018.8	12210.8	12160.9	15030.7	21292.4	22606.0	21807.9
42.5°	17115.8	17149.0	16879.7	16151.4	14904.4	14112.9	13826.9	16440.7	23098.2	24917.1	23972.7
45°	18150.0	18356.1	18316.2	17734.2	16839.7	16018.4	15828.9	18209.8	25156.6	27367.9	26260.6
47.5°	18442.6	18632.1	18931.4	19011.2	18465.9	17657.8	17883.9	20341.3	27238.2	29822.1	28561.7
50°	17721.0	17897.2	18519.1	19347.1	19726.2	19476.7	19882.4	22626.0	29369.8	32269.6	30819.7
52.5°	16297.7	16477.3	17262.0	18572.3	20118.6	20903.3	21887.6	24877.2	31434.9	34587.3	32957.8
55°	14239.3	14428.8	15436.4	16919.6	19370.3	21492.0	23560.3	27125.2	33327.1	36672.3	34886.6
57.5°	11439.3	11579.0	12626.5	14701.6	17488.2	20906.7	24794.0	29579.2	35109.4	38720.8	36798.7
60°	7455.5	7578.5	8795.6	11110.1	14369.0	18951.3	25040.1	32316.1	37477.1	41384.4	39375.9
62.5°	4958.1	5041.3	5762.9	7462.2	10119.1	15197.0	23600.2	34500.9	40948.8	46020.0	43795.3
65°	3401.9	3485.0	4206.6	5390.5	6537.7	10052.7	19460.1	34211.5	44094.6	49701.2	47070.8
67.5°	2427.5	2497.4	3109.2	4226.6	4732.0	5839.4	13191.7	30513.7	43642.3	49840.8	47247.1
70°	1739.2	1779.1	2284.5	3292.1	3761.0	3508.3	7335.8	23337.5	38212.0	46023.3	43649.0
72.5°	1217.1	1230.4	1586.2	2507.4	3029.4	2560.6	3491.7	15559.5	28900.9	36123.7	33839.1
75°	824.7	841.3	1067.4	1839.0	2430.9	1955.3	1848.9	8343.4	16966.1	19995.5	17923.9
77.5°	505.4	512.1	688.4	1257.0	1819.0	1489.7	1190.5	3534.9	6564.3	6444.6	5493.5
80°	286.0	286.0	438.9	781.5	1240.4	961.0	834.7	1503.1	2078.4	1825.6	1609.5
82.5°	159.6	163.0	319.3	485.5	821.3	568.7	458.9	695.1	897.9	794.8	691.7
85°	66.5	73.2	196.2	229.5	392.4	282.7	186.2	292.6	332.5	295.9	216.2
87.5°	6.7	9.9	59.9	43.3	46.5	56.6	26.6	56.6	46.5	46.5	33.2
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°	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7	7651.7
2.5°	7701.5	7651.7	7525.3	7379.1	7186.2	7093.0	6966.7	6880.2	6807.0	6813.7	6747.2
5°	7851.2	7724.9	7442.2	7089.7	6650.8	6338.2	6005.7	5776.2	5589.9	5550.1	5460.3
7.5°	8057.4	7857.9	7362.4	6727.3	5985.7	5423.7	4921.5	4599.0	4369.6	4296.4	4223.2
10°	8323.4	8034.2	7259.4	6271.7	5204.2	4489.3	3950.6	3697.8	3541.6	3488.3	3448.4
12.5°	8632.7	8237.0	7122.9	5716.3	4399.5	3711.1	3368.7	3242.3	3192.4	3175.8	3165.8
15°	9021.7	8489.7	6916.8	5057.9	3717.8	3235.6	3089.2	3072.6	3079.3	3072.6	3069.4
17.5°	9484.0	8765.7	6580.9	4379.5	3258.9	2992.8	2939.6	2952.9	2969.5	2966.2	2959.6
20°	9989.4	9038.3	6151.9	3777.6	2946.3	2819.9	2789.9	2803.3	2816.6	2809.9	2806.7
22.5°	10564.8	9331.0	5676.4	3308.8	2736.7	2660.3	2627.1	2630.4	2630.4	2617.0	2610.5
25°	11253.1	9653.6	5177.6	2976.2	2577.2	2517.3	2477.4	2464.1	2444.1	2404.2	2397.6
27.5°	12074.5	9996.1	4698.8	2743.4	2450.8	2394.3	2347.8	2314.4	2264.6	2198.1	2191.4
30°	12998.9	10411.7	4293.1	2597.1	2351.0	2294.6	2241.3	2191.4	2118.3	2035.1	2028.5
32.5°	14086.4	10857.4	3997.1	2500.7	2261.3	2201.4	2138.3	2078.4	1998.5	1915.4	1918.7
35°	15383.2	11396.1	3824.2	2434.2	2191.4	2111.6	2041.8	1975.3	1915.4	1842.2	1835.6
37.5°	16789.9	11968.1	3771.0	2401.0	2144.9	2021.8	1942.1	1895.4	1888.8	1845.6	1842.2
40°	18329.6	12646.4	3810.8	2381.0	2095.0	1935.4	1848.9	1839.0	1855.6	1779.1	1782.4
42.5°	19959.0	13451.2	3877.4	2357.7	2025.2	1848.9	1765.8	1765.8	1752.4	1646.0	1646.0
45°	21721.4	14379.0	3943.9	2301.1	1942.1	1762.5	1699.2	1676.0	1619.5	1516.4	1513.0
47.5°	23497.2	15323.3	3993.8	2198.1	1842.2	1689.3	1632.7	1579.5	1496.4	1403.3	1399.9
50°	25183.1	16171.3	3940.6	2045.1	1729.2	1619.5	1559.6	1486.5	1396.7	1333.5	1323.5
52.5°	26689.6	16906.2	3714.5	1865.5	1609.5	1546.3	1493.1	1416.7	1343.5	1276.9	1270.3
55°	27999.7	17501.5	3315.4	1696.0	1503.1	1483.1	1429.9	1333.5	1233.7	1177.2	1170.6
57.5°	29256.8	17953.8	2816.6	1556.3	1406.6	1413.3	1333.5	1247.0	1153.9	1094.1	1087.4
60°	30929.4	18559.0	2311.2	1426.6	1303.6	1323.5	1237.1	1173.8	1057.5	981.0	971.0
62.5°	33603.0	19500.0	1835.6	1267.0	1183.9	1190.5	1153.9	1077.4	937.8	848.0	841.3
65°	35724.6	19154.2	1446.6	1094.1	1047.4	1057.5	1057.5	974.4	824.7	721.6	711.7
67.5°	35485.2	16400.8	1153.9	924.4	917.8	924.4	947.7	877.9	731.5	648.4	635.2
70°	32688.5	13045.5	924.4	768.1	798.1	781.5	848.0	801.4	658.5	575.3	565.3
72.5°	26673.0	9397.5	705.0	635.2	611.8	638.5	764.9	721.6	548.7	455.6	445.6
75°	15586.0	5014.7	525.4	502.1	442.3	532.1	678.3	615.2	419.0	335.9	325.8
77.5°	5074.6	1749.2	385.7	369.1	329.2	429.0	578.6	518.8	342.6	266.0	256.0
80°	1360.1	528.7	262.7	242.7	212.8	319.3	458.9	412.4	246.1	172.9	169.6
82.5°	545.4	222.8	152.9	136.3	116.3	219.5	362.4	332.5	182.9	109.8	109.8
85°	176.2	73.2	56.6	43.3	53.2	136.3	216.2	226.1	129.7	56.6	43.3
87.5°	23.3	9.9	9.9	13.3	9.9	23.3	66.5	63.1	36.6	6.7	0.0
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)