

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: P971088

Luminaire Tested: **NAV-SB6C-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42674.9 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
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



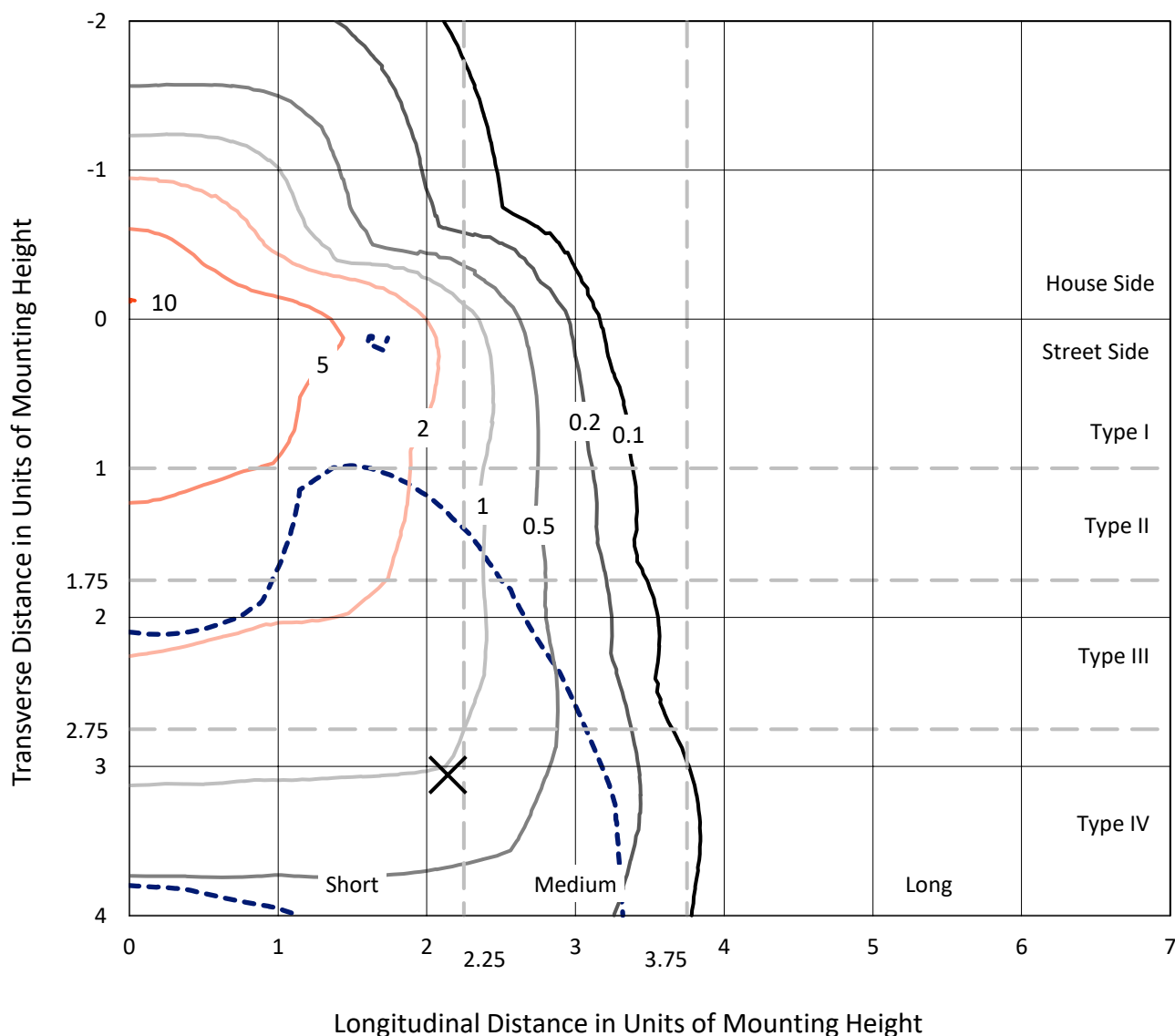
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

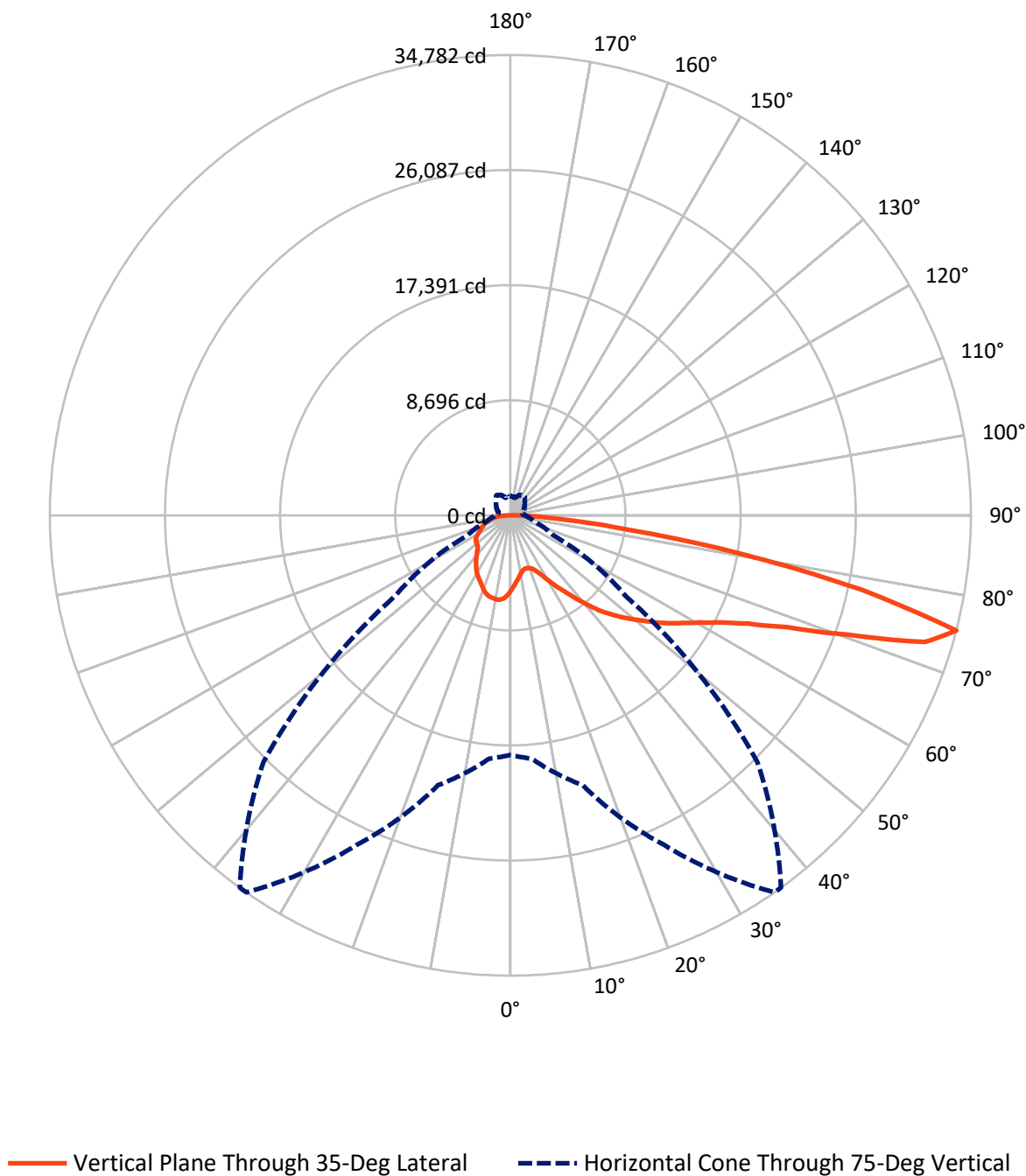


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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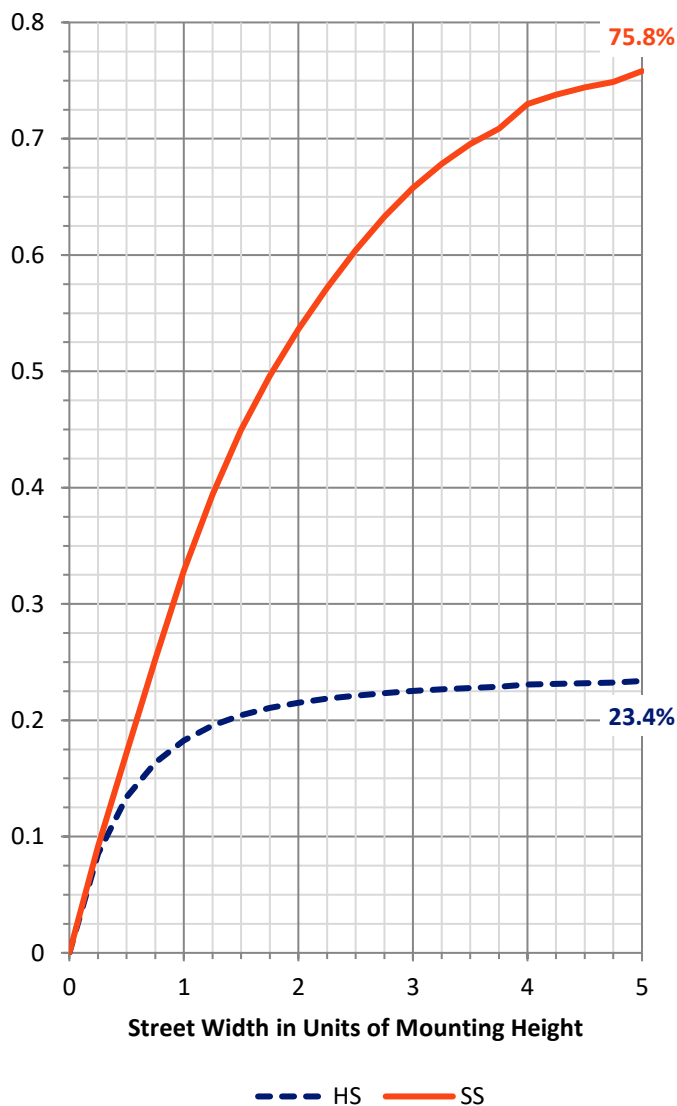
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10155.6	0.0	10155.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	32519.3	0.0	32519.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	42674.9	0.0	42674.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.4	1.3
10°-20°	1553.0	3.6
20°-30°	2607.9	6.1
30°-40°	4053.1	9.5
40°-50°	6015.9	14.1
50°-60°	8305.3	19.5
60°-70°	10076.2	23.6
70°-80°	8327.2	19.5
80°-90°	1197.7	2.8
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°	42674.9	100.0
0°-180°	42674.9	100.0

Coefficient of Utilization



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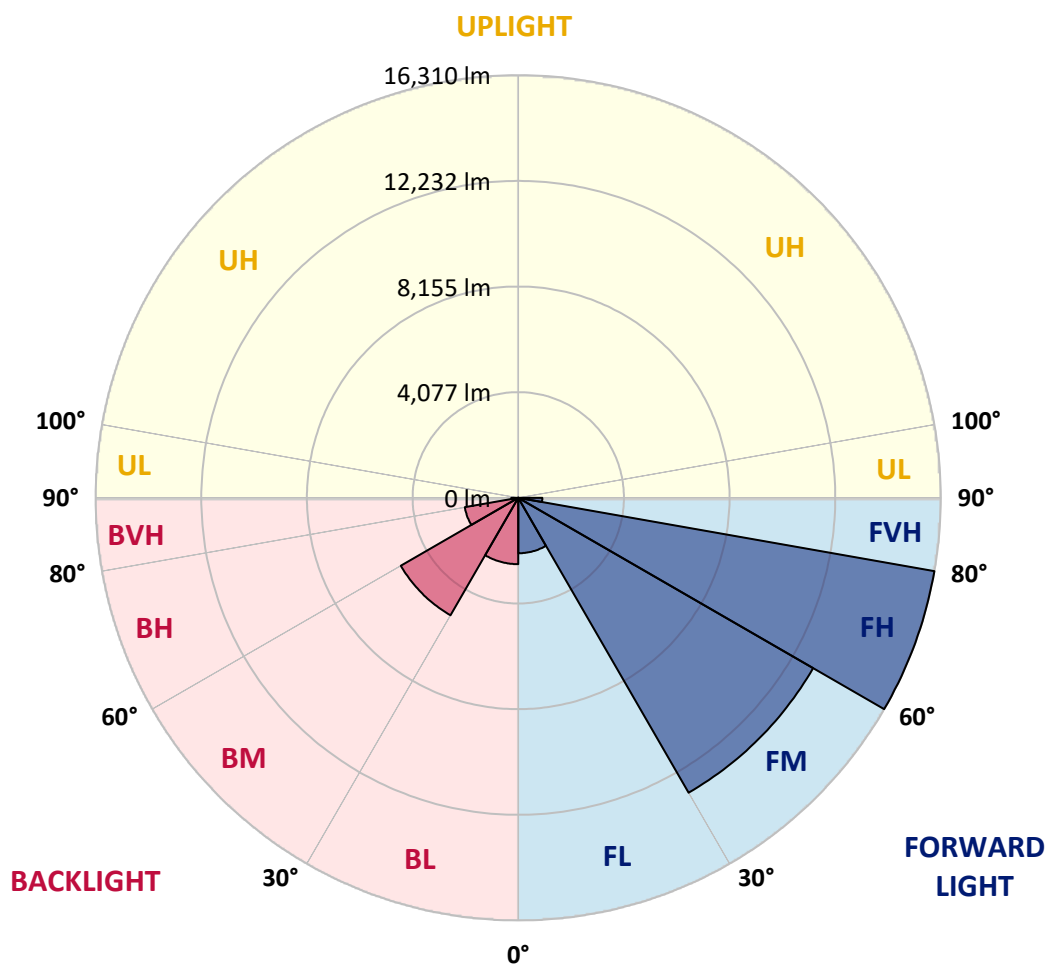
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2140.1	5.0			
FM	(30°-60°)	13141.5	30.8			
FH	(60°-80°)	16309.7	38.2			G5
FVH	(80°-90°)	928.0	2.2			G5
BL	(0°-30°)	2559.3	6.0	B4/5000		
BM	(30°-60°)	5232.8	12.3	B4/8500		
BH	(60°-80°)	2093.8	4.9	B3/2500		G3/2500
BVH	(80°-90°)	269.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7
2.5°	5243.8	5276.1	5289.9	5283.0	5317.6	5313.0	5361.5	5421.4	5504.5	5585.2	5702.9
5°	4840.0	4874.7	4904.6	4932.3	4999.2	5020.0	5096.1	5211.5	5363.7	5518.3	5712.1
7.5°	4464.0	4494.0	4540.1	4590.9	4703.9	4724.7	4851.6	5031.5	5243.8	5469.8	5737.4
10°	4157.2	4187.1	4235.6	4293.3	4434.0	4459.4	4620.9	4860.9	5137.6	5423.7	5765.1
12.5°	4025.7	4034.9	4062.6	4120.3	4242.6	4258.7	4436.3	4710.9	5033.9	5389.1	5806.6
15°	4018.7	4037.3	4039.5	4069.6	4171.0	4177.9	4341.7	4613.9	4969.2	5382.2	5868.9
17.5°	4088.0	4101.8	4081.0	4099.5	4184.9	4196.5	4325.6	4567.8	4948.5	5412.2	5975.1
20°	4272.5	4284.1	4221.8	4196.5	4258.7	4267.9	4394.8	4597.8	4969.2	5474.4	6120.4
22.5°	4664.7	4671.6	4519.4	4415.6	4420.2	4424.8	4535.5	4720.1	5050.0	5587.5	6305.0
25°	5276.1	5271.5	5029.3	4828.5	4713.2	4687.8	4761.6	4918.5	5186.1	5737.4	6542.6
27.5°	5991.2	5956.6	5714.4	5414.5	5163.0	5126.1	5109.9	5176.9	5379.9	5935.9	6833.3
30°	6798.7	6766.3	6505.7	6113.5	5765.1	5705.2	5552.9	5518.3	5668.2	6205.8	7237.0
32.5°	7684.5	7663.8	7352.3	6877.1	6411.1	6341.9	6085.8	5993.6	6111.2	6614.1	7799.9
35°	8427.4	8409.0	8150.6	7661.5	7091.7	7006.3	6745.6	6641.8	6701.8	7137.8	8535.8
37.5°	9098.7	9089.5	8868.0	8482.8	7894.4	7790.7	7497.7	7463.1	7451.5	7827.6	9428.7
40°	9721.6	9698.6	9467.8	9264.9	8828.8	8734.2	8475.8	8445.9	8358.2	8676.5	10439.1
42.5°	10411.4	10351.5	10016.9	9922.3	9804.6	9726.2	9571.7	9576.3	9382.5	9634.0	11509.5
45°	10974.4	10939.7	10595.9	10540.6	10667.5	10635.2	10769.0	10803.6	10427.5	10637.4	12621.5
47.5°	11578.7	11546.4	11255.7	11216.6	11560.3	11569.5	12042.4	12054.0	11447.2	11680.3	13735.8
50°	12323.9	12277.8	11989.4	12037.8	12423.1	12457.7	13322.8	13244.4	12386.2	12739.1	14840.8
52.5°	12815.3	12842.9	12780.7	12859.1	13385.1	13417.5	14582.5	14381.8	13315.9	13784.2	15925.1
55°	13177.5	13232.9	13426.7	13606.6	14400.2	14432.5	15770.5	15463.7	14086.5	14753.1	16944.8
57.5°	13643.5	13565.1	13927.3	14277.9	15364.5	15449.8	16926.3	16506.5	14769.3	15588.3	17643.8
60°	14312.5	14257.1	14538.6	15057.7	16444.2	16580.3	18149.1	17445.4	15269.9	16250.4	17780.0
62.5°	15669.1	15530.6	15574.5	16033.6	17805.3	17985.3	19528.6	18264.4	15519.1	16508.8	17050.9
65°	17696.8	17459.2	17237.7	17556.1	19722.4	19900.1	21085.8	18908.1	15426.8	16008.1	15115.4
67.5°	20250.7	20015.4	19743.1	20043.1	22546.1	22686.8	23007.6	19270.2	14700.1	14079.5	11694.1
70°	22357.0	22269.4	22594.6	23828.8	27056.3	27060.9	25471.4	18970.3	12709.2	9982.3	6766.3
72.5°	22077.8	22024.8	23738.9	27554.6	32740.7	32618.5	27803.7	16700.2	8561.2	4503.2	2535.3
75°	18112.2	18455.8	21111.2	27487.7	34782.4	34766.3	26375.7	10616.7	3541.2	1866.3	1310.4
77.5°	9712.4	10256.9	13705.8	20294.5	27153.2	27561.5	18543.5	3714.3	1520.3	1195.0	906.6
80°	3167.5	3642.7	5462.9	10333.0	17643.8	17567.7	7947.5	1458.1	1040.5	846.6	627.5
82.5°	1345.0	1400.4	2440.8	4879.3	9055.0	8914.2	2530.7	837.4	731.3	579.0	387.6
85°	526.0	588.2	1077.4	2256.2	3921.9	3836.5	913.6	415.2	468.3	378.3	230.7
87.5°	173.0	209.9	385.3	772.8	1220.4	1176.6	223.8	143.0	203.1	173.0	83.0
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°	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7	5686.7
2.5°	5735.2	5772.1	5816.0	5880.5	5935.9	5982.0	6030.5	6060.4	6072.0	6106.5	6104.3
5°	5776.7	5857.5	5965.8	6072.0	6175.8	6238.0	6293.5	6321.2	6346.5	6364.9	6369.6
7.5°	5845.9	5949.7	6120.4	6258.9	6346.5	6397.2	6434.1	6424.9	6434.1	6438.7	6445.7
10°	5905.8	6051.2	6254.2	6385.7	6452.6	6454.9	6445.7	6413.4	6397.2	6399.6	6404.2
12.5°	5977.4	6138.9	6358.1	6468.8	6487.2	6436.5	6397.2	6341.9	6321.2	6312.0	6307.3
15°	6074.3	6258.9	6471.1	6512.6	6466.5	6401.8	6335.0	6245.0	6198.9	6162.0	6173.5
17.5°	6191.9	6395.0	6558.8	6528.7	6429.5	6323.4	6215.0	6078.9	5984.4	5945.1	5947.4
20°	6355.7	6538.0	6625.7	6494.2	6344.2	6182.7	5998.2	5832.0	5744.4	5705.2	5700.5
22.5°	6554.2	6729.4	6690.3	6434.1	6222.0	5963.6	5732.8	5610.5	5566.8	5539.1	5543.7
25°	6791.8	6941.7	6736.4	6346.5	6021.3	5672.9	5495.2	5456.0	5435.3	5414.5	5414.5
27.5°	7100.9	7181.7	6770.9	6217.3	5707.5	5363.7	5299.1	5306.0	5299.1	5264.5	5271.5
30°	7509.3	7493.1	6803.3	6007.4	5347.6	5084.6	5089.2	5119.2	5123.8	5100.7	5112.3
32.5°	8046.8	7883.0	6819.4	5735.2	5003.8	4840.0	4844.7	4877.0	4900.0	4860.9	4879.3
35°	8697.3	8337.5	6794.1	5393.8	4738.6	4607.1	4572.4	4581.6	4588.6	4551.7	4577.0
37.5°	9456.3	8847.3	6681.1	5015.4	4519.4	4378.7	4304.8	4242.6	4205.7	4171.0	4194.1
40°	10289.2	9403.2	6473.4	4646.2	4274.9	4136.4	4025.7	3908.0	3783.5	3737.4	3758.1
42.5°	11161.2	9975.4	6222.0	4293.3	3993.4	3880.3	3762.7	3592.0	3405.2	3310.5	3322.0
45°	12065.5	10561.4	5975.1	3944.9	3705.0	3656.6	3520.5	3315.2	3112.1	2992.2	2983.0
47.5°	12951.4	11115.0	5612.9	3594.3	3435.1	3488.2	3382.0	3192.9	2966.8	2777.6	2756.8
50°	13798.0	11634.2	5020.0	3239.0	3215.9	3437.4	3335.9	3063.6	2805.3	2563.0	2542.3
52.5°	14637.8	12054.0	4261.0	2916.0	3098.3	3423.6	3275.9	2976.0	2660.0	2406.2	2378.5
55°	15350.7	12270.9	3529.7	2639.2	2927.6	3305.9	3204.4	2872.2	2454.7	2184.7	2161.6
57.5°	15756.7	12095.5	2920.6	2366.9	2692.3	3112.1	3082.2	2650.8	2210.1	2002.4	1974.8
60°	15581.3	11385.0	2422.4	2129.3	2468.5	2902.2	2869.9	2431.6	2023.2	1827.2	1799.5
62.5°	14614.8	10030.8	2027.9	1921.7	2265.5	2687.7	2657.6	2263.2	1880.2	1691.0	1661.0
65°	12667.7	8159.8	1721.0	1748.6	2060.1	2429.2	2473.1	2122.5	1767.1	1582.6	1552.6
67.5°	9661.6	5910.5	1481.1	1598.7	1859.5	2175.5	2302.4	2020.9	1672.6	1497.2	1469.5
70°	5506.8	3356.7	1278.1	1453.4	1681.8	1940.2	2170.8	1940.2	1571.0	1425.7	1407.2
72.5°	2087.8	1541.1	1105.1	1308.1	1511.1	1741.8	2025.5	1813.3	1453.4	1345.0	1326.6
75°	1114.3	938.9	929.7	1137.3	1315.0	1548.0	1843.3	1688.7	1365.7	1421.1	1467.3
77.5°	759.0	664.4	777.5	973.5	1100.4	1333.4	1649.5	1499.6	1183.5	1178.9	1086.6
80°	526.0	470.6	632.1	784.3	851.3	1121.1	1439.5	1287.3	964.3	899.7	860.5
82.5°	316.0	306.8	472.9	586.0	602.1	865.1	1192.7	1079.6	788.9	687.5	692.1
85°	173.0	182.2	302.2	343.8	350.7	604.4	934.3	835.2	606.7	509.8	514.4
87.5°	48.5	62.3	110.7	136.1	168.4	313.8	556.0	496.0	304.5	212.3	212.3
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)