

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: P970925

Luminaire Tested: **NAV-SB6C-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37638 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

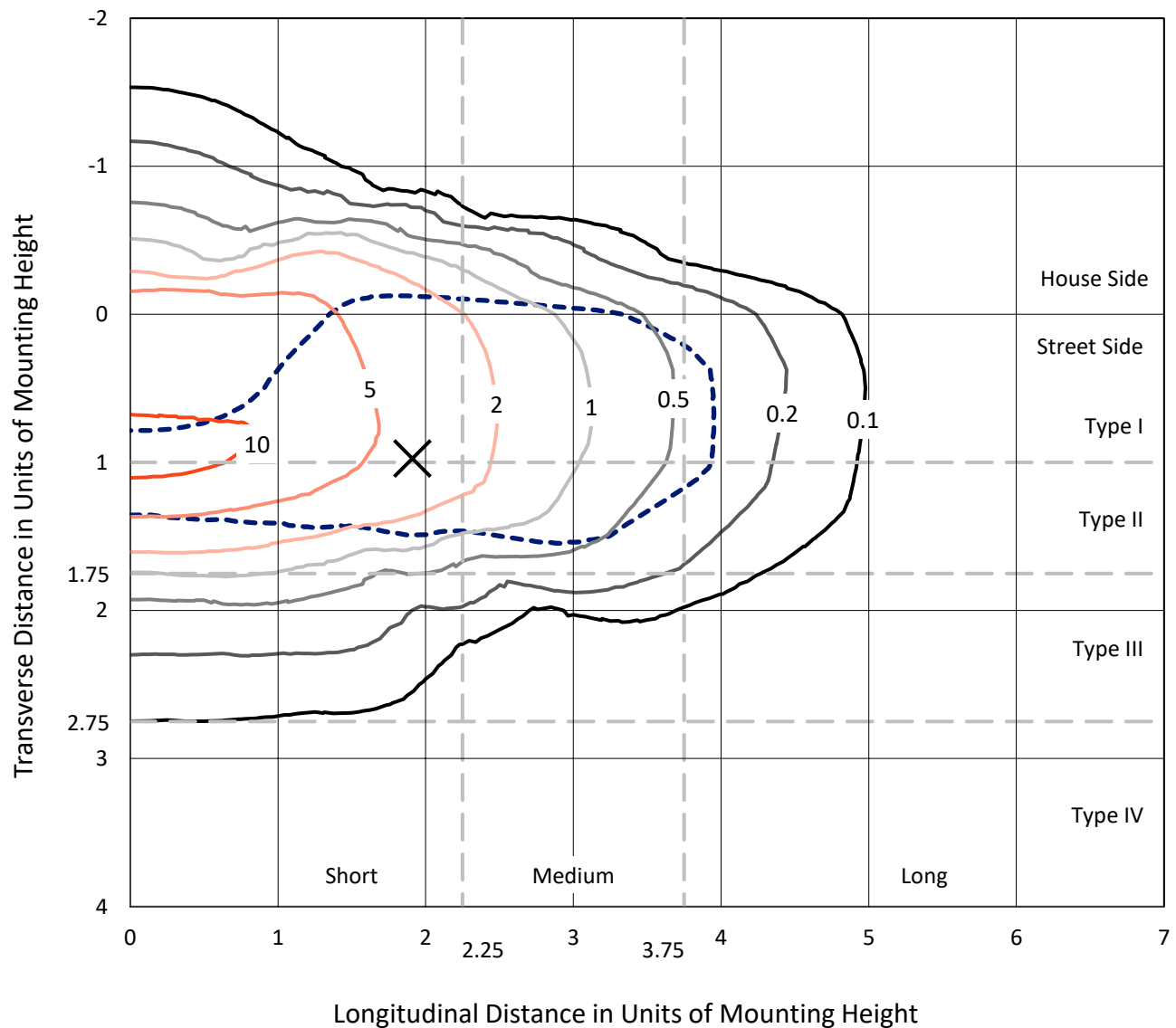


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

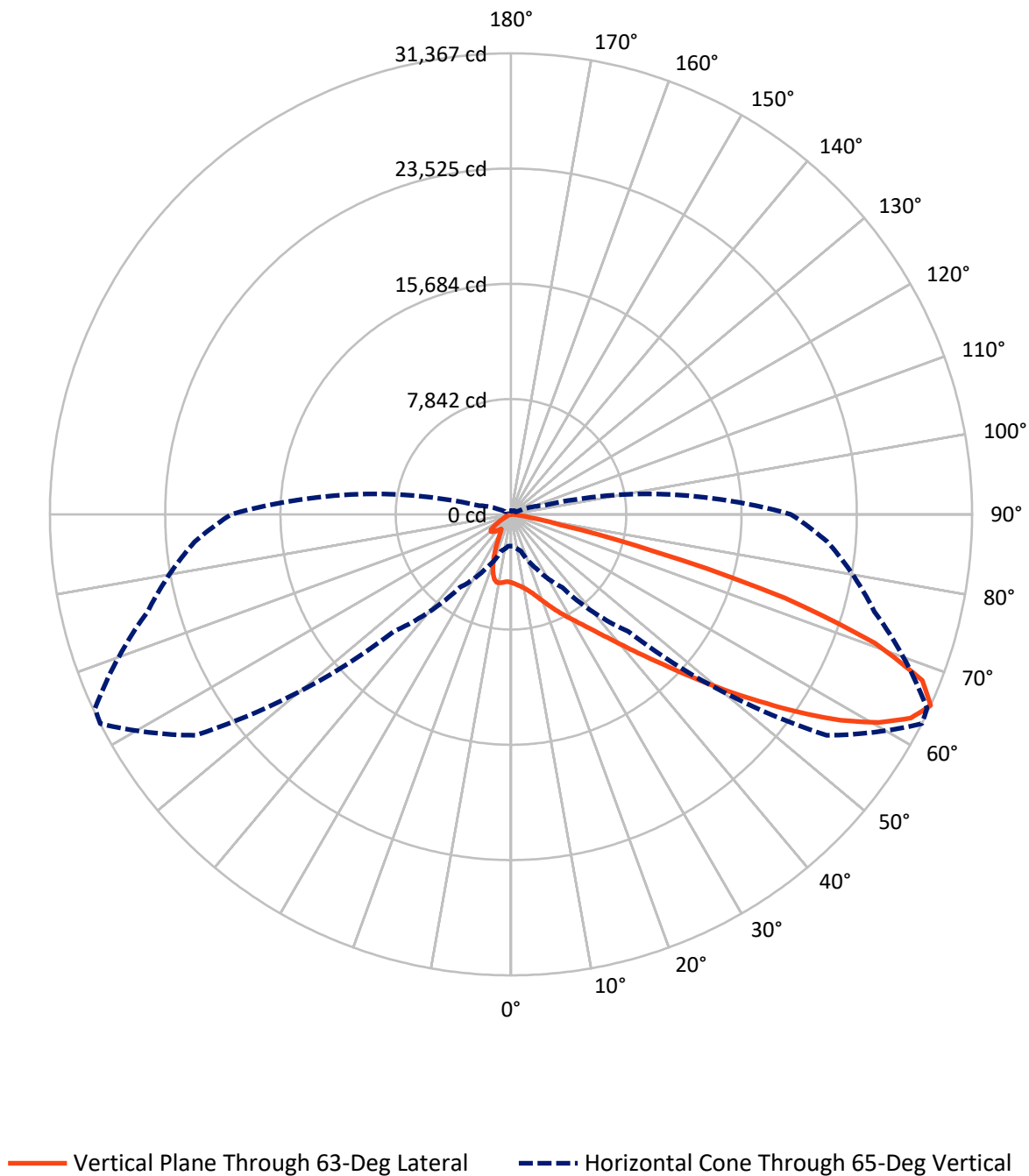


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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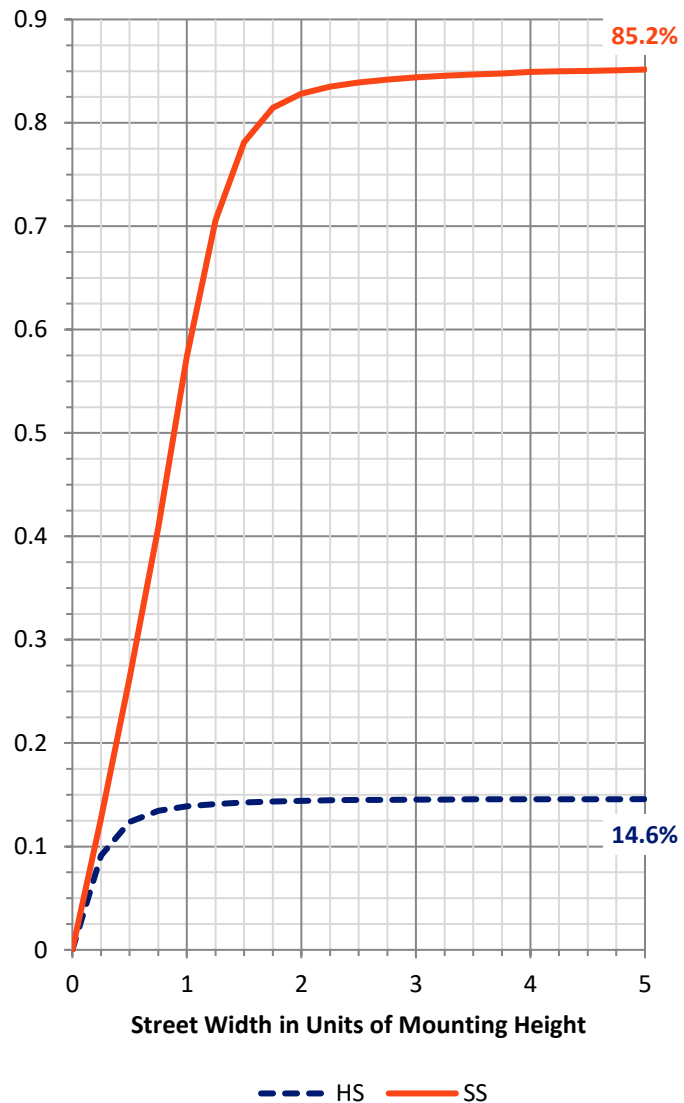
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5532.5	0.0	5532.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32105.5	0.0	32105.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	37638.0	0.0	37638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.7	1.2
10°-20°	1214.4	3.2
20°-30°	2114.5	5.6
30°-40°	3811.2	10.1
40°-50°	7558.9	20.1
50°-60°	10296.4	27.4
60°-70°	8218.5	21.8
70°-80°	3719.1	9.9
80°-90°	267.3	0.7
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°	37638.0	100.0
0°-180°	37638.0	100.0

Coefficient of Utilization



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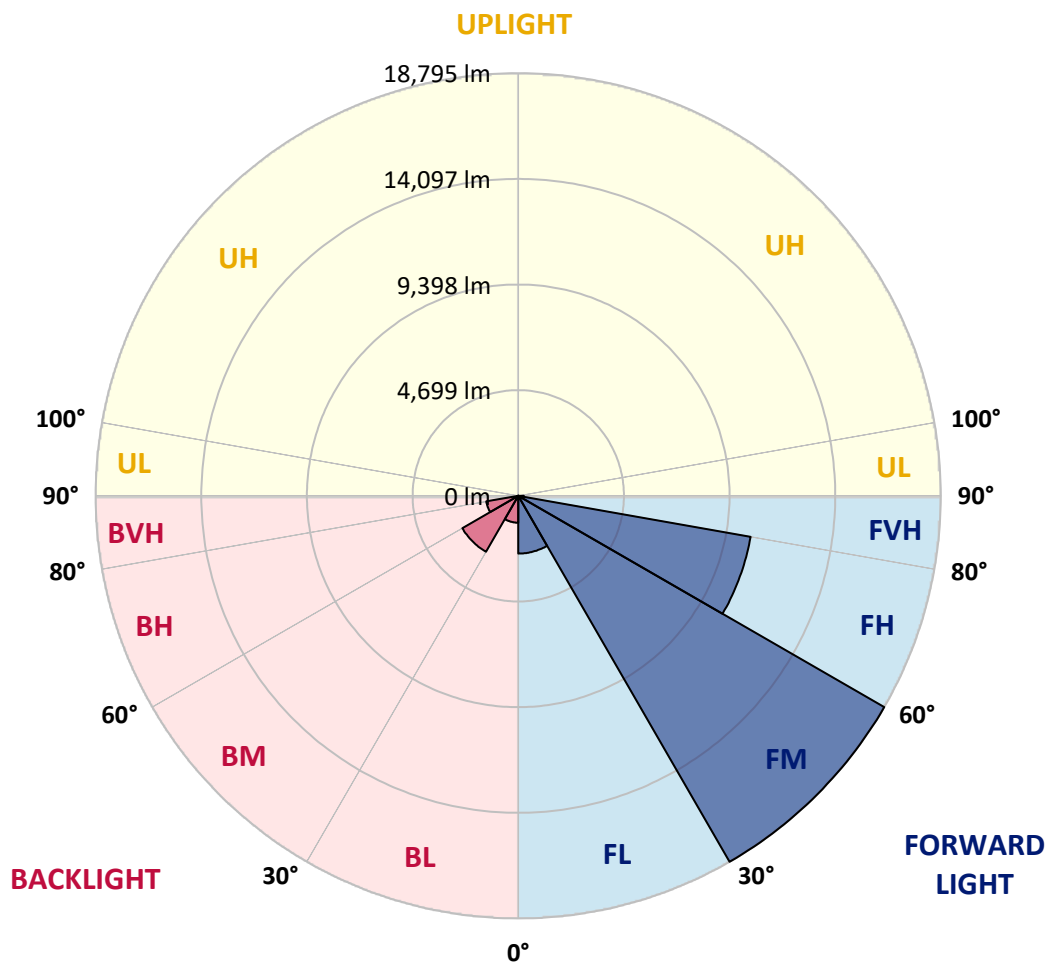
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2569.3	6.8			
FM	(30°-60°)	18795.5	49.9			
FH	(60°-80°)	10493.3	27.9			G4/12000
FVH	(80°-90°)	247.5	0.7			G3/500
BL	(0°-30°)	1197.3	3.2	B3/2500		
BM	(30°-60°)	2871.0	7.6	B3/5000		
BH	(60°-80°)	1444.3	3.8	B3/2500		G3/2500
BVH	(80°-90°)	19.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2
2.5°	4754.0	4741.0	4759.2	4751.4	4746.3	4735.9	4730.7	4725.6	4715.1	4707.4	4676.4
5°	4767.0	4759.2	4777.3	4792.8	4808.4	4823.9	4831.6	4842.0	4831.6	4810.9	4779.9
7.5°	4658.2	4653.0	4691.8	4738.5	4808.4	4867.9	4932.6	4968.9	4971.5	4963.8	4930.0
10°	4650.4	4637.5	4676.4	4733.2	4823.9	4930.0	5044.0	5121.7	5132.1	5165.7	5129.4
12.5°	4772.1	4759.2	4813.5	4875.7	4968.9	5080.2	5220.1	5328.8	5344.3	5391.0	5365.1
15°	4976.7	4958.5	5020.7	5100.9	5220.1	5346.9	5494.5	5592.9	5605.8	5662.8	5616.3
17.5°	5214.9	5196.8	5269.2	5354.7	5484.2	5657.7	5828.6	5937.3	5952.9	5989.1	5903.7
20°	5520.4	5497.2	5554.1	5631.8	5769.0	5976.2	6180.7	6336.0	6333.5	6333.5	6193.7
22.5°	5875.2	5838.9	5888.1	5950.2	6079.7	6330.9	6602.7	6786.6	6786.6	6714.1	6483.6
25°	6255.8	6219.6	6273.9	6330.9	6444.8	6729.6	7048.1	7276.0	7286.3	7162.1	6794.4
27.5°	6732.2	6685.7	6727.1	6794.4	6861.7	7151.7	7529.8	7793.9	7799.0	7607.4	7089.5
30°	7648.9	7516.8	7387.4	7314.8	7345.9	7633.3	8037.2	8329.9	8355.7	8091.7	7410.6
32.5°	9326.7	9300.8	8845.1	8249.6	7938.8	8151.2	8604.3	8956.4	8972.0	8632.8	7827.5
35°	11934.2	11903.1	11170.3	10036.2	9023.8	8845.1	9293.1	9709.9	9699.6	9316.3	8368.7
37.5°	15046.6	15018.1	14052.2	12534.9	10895.9	9893.8	10181.2	10618.8	10683.6	10181.2	9067.8
40°	17705.7	17599.7	16988.6	15525.6	13381.6	11633.9	11444.8	11734.8	11802.2	11206.5	9955.9
42.5°	19720.3	19629.7	19318.9	18404.9	16390.4	14207.6	12933.7	13045.0	13120.1	12405.5	10976.1
45°	20763.7	20743.0	20867.4	20781.9	19456.1	17366.6	15062.1	14598.6	14627.1	13733.8	12133.5
47.5°	20911.3	20901.0	21468.0	22270.8	22092.0	20929.5	17793.8	16535.4	16434.4	15232.9	13391.9
50°	20041.3	20020.6	21108.1	22612.5	23852.8	23922.7	20895.9	18718.2	18495.5	16784.0	14704.8
52.5°	17262.9	17257.8	19044.5	21548.4	24471.7	26543.1	23961.5	21115.9	20743.0	18425.6	16092.6
55°	13283.2	13379.0	15427.2	18386.8	23342.7	27804.2	26714.1	23777.7	23205.5	20077.6	17371.7
57.5°	9409.6	9549.4	11574.3	14210.2	19841.9	27058.4	28575.8	26444.7	25828.5	21724.4	18669.0
60°	5054.4	5178.6	7206.1	10352.1	14761.7	24277.4	29557.1	28759.6	28176.9	23288.3	19839.4
62.5°	3011.3	3052.8	3891.7	6683.0	9984.4	18547.3	29140.2	30522.9	30043.9	24601.1	20857.0
65°	2162.0	2169.8	2591.9	4080.7	6061.6	11268.7	26216.8	31367.0	31219.4	25590.3	21610.5
67.5°	1820.3	1815.1	1991.2	2711.0	4129.9	5644.7	20093.1	30173.3	30799.9	26216.8	22037.7
70°	1561.4	1569.2	1776.2	1986.0	3104.6	3195.2	9989.5	26271.3	27607.4	26382.6	22011.8
72.5°	1162.6	1188.5	1380.1	1809.9	2343.4	2198.3	3449.0	19479.4	21895.3	24857.5	20869.9
75°	820.8	833.7	971.0	1522.5	1747.8	1600.2	1760.7	10069.9	13166.7	19057.4	17081.7
77.5°	631.8	655.1	735.3	1064.3	1721.9	1123.8	1077.2	3485.2	5354.7	11512.1	11711.4
80°	341.8	383.2	530.8	769.1	1209.2	794.9	533.4	1387.8	1815.1	5383.2	4515.7
82.5°	176.1	196.8	370.2	554.1	688.8	693.9	264.1	577.4	748.4	1662.3	618.9
85°	69.9	85.5	248.6	305.6	354.8	341.8	119.1	233.1	269.3	460.9	189.0
87.5°	15.6	25.9	90.6	69.9	67.3	72.5	28.5	54.3	51.8	54.3	33.6
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°	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2	4645.2
2.5°	4673.7	4663.3	4634.8	4603.8	4567.6	4546.8	4533.9	4531.3	4513.2	4500.3	4513.2
5°	4751.4	4741.0	4686.7	4621.9	4552.0	4497.7	4445.8	4399.3	4332.0	4318.9	4313.8
7.5°	4906.8	4878.3	4790.2	4702.2	4570.2	4412.2	4220.6	4000.5	3803.7	3744.1	3715.6
10°	5098.3	5059.5	4948.2	4792.8	4500.3	4070.4	3606.9	3177.1	2835.4	2739.5	2703.2
12.5°	5315.9	5282.2	5134.6	4847.2	4207.6	3428.2	2718.8	2185.4	1853.9	1771.1	1747.8
15°	5574.8	5525.6	5321.1	4764.3	3684.6	2604.8	1866.9	1551.0	1431.9	1416.3	1400.9
17.5°	5849.3	5769.0	5486.7	4466.5	2980.3	1851.4	1442.3	1351.7	1299.8	1284.3	1276.5
20°	6100.4	5996.9	5585.1	4016.1	2226.8	1442.3	1292.1	1232.6	1185.9	1167.8	1157.4
22.5°	6351.6	6204.0	5585.1	3402.4	1670.1	1279.1	1185.9	1131.5	1077.2	1053.8	1040.9
25°	6613.1	6416.3	5486.7	2718.8	1343.9	1173.0	1085.0	1025.4	978.8	950.3	939.9
27.5°	6866.9	6595.0	5261.5	2071.4	1196.3	1079.7	991.7	934.7	890.7	870.0	870.0
30°	7107.7	6771.0	4945.6	1571.7	1100.4	989.1	906.3	857.1	813.0	792.3	794.9
32.5°	7433.9	6993.8	4609.0	1289.4	1017.6	903.6	828.6	782.0	743.1	727.6	727.6
35°	7887.1	7322.6	4318.9	1266.2	947.7	833.7	758.7	714.6	675.8	662.9	662.9
37.5°	8529.2	7853.4	4166.2	1421.6	890.7	771.6	701.7	655.1	618.9	608.4	605.9
40°	9321.6	8573.2	4249.0	1576.9	851.9	717.2	650.0	603.3	572.3	559.3	556.7
42.5°	10261.5	9461.4	4707.4	1696.0	825.9	670.7	600.8	548.9	528.2	523.1	523.1
45°	11341.2	10437.6	5409.1	1822.9	784.5	626.6	551.6	512.7	497.1	494.6	492.0
47.5°	12568.6	11509.5	6222.2	1980.8	743.1	585.2	512.7	486.8	473.9	468.6	468.6
50°	13785.5	12589.3	7058.5	2068.9	709.5	546.3	481.6	460.9	450.6	447.9	447.9
52.5°	15059.5	13700.0	7734.3	1986.0	681.0	515.3	455.7	440.1	429.8	427.2	427.2
55°	16273.9	14598.6	7850.8	1685.6	624.0	484.2	427.2	419.4	406.5	406.5	404.0
57.5°	17319.9	15049.2	7027.4	1237.7	567.0	437.6	398.7	391.0	380.6	378.0	375.5
60°	18280.6	14919.7	5424.6	833.7	504.9	391.0	362.5	357.3	347.0	334.0	331.4
62.5°	18821.8	14350.0	3710.5	543.8	442.8	341.8	321.0	318.5	295.2	269.3	264.1
65°	19026.4	13179.7	2314.9	396.2	370.2	292.6	277.1	271.8	238.2	209.7	207.2
67.5°	18847.7	11253.2	1167.8	313.3	292.6	243.4	227.9	227.9	204.6	178.7	176.1
70°	18133.0	8436.0	492.0	251.1	225.3	186.4	186.4	196.8	173.5	145.0	142.4
72.5°	16582.0	5675.8	261.5	191.6	168.3	132.0	152.7	160.5	137.2	108.8	108.8
75°	13182.2	3461.9	181.2	142.4	106.2	93.2	116.5	121.7	93.2	72.5	69.9
77.5°	9016.0	1988.6	121.7	90.6	67.3	54.3	80.3	75.1	49.2	33.6	36.3
80°	3959.1	828.6	69.9	41.4	25.9	20.7	28.5	20.7	15.6	10.4	10.4
82.5°	463.5	194.2	25.9	15.6	10.4	5.2	2.6	0.0	0.0	0.0	0.0
85°	95.8	23.3	12.9	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)