

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: P970405

Luminaire Tested: **NAV-SB6B-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28036.8 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 220.4
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



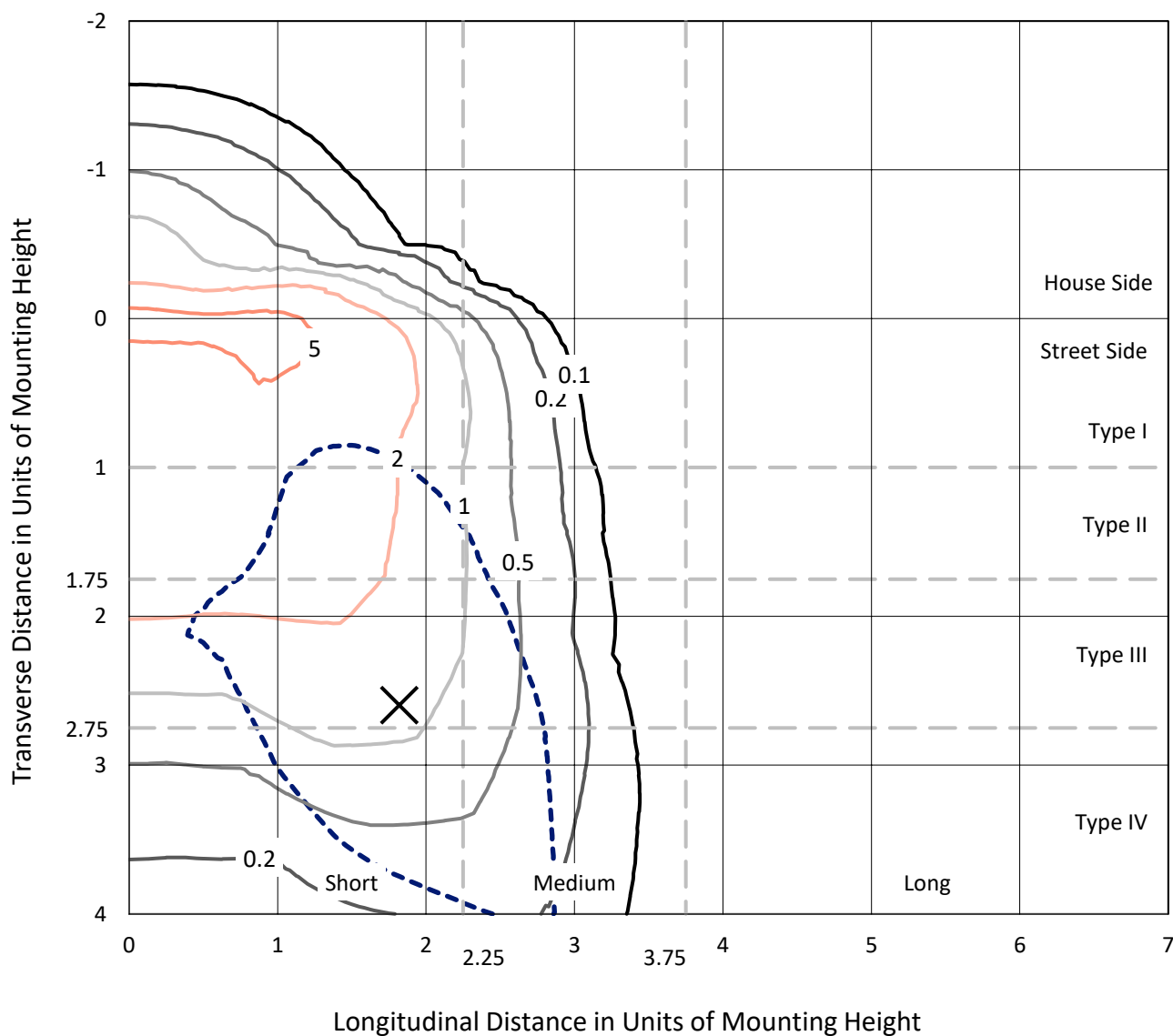
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

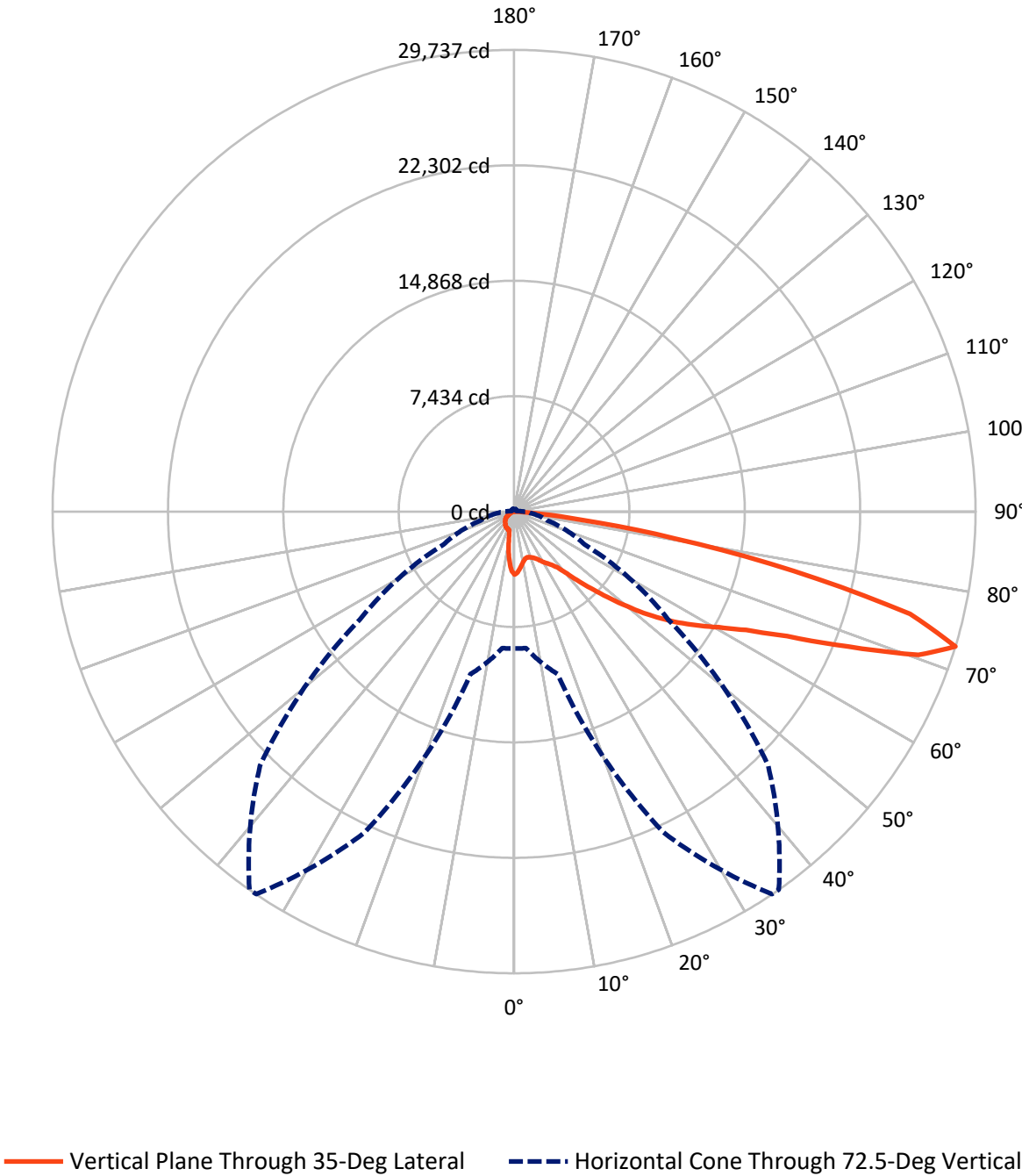


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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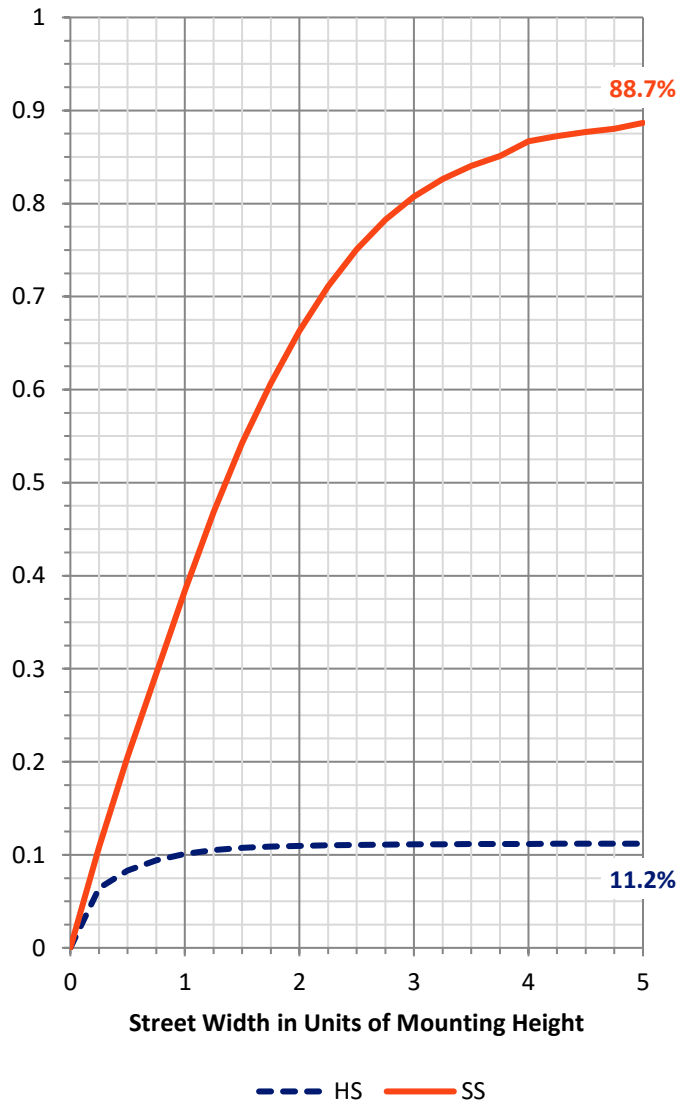
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3155.4	0.0	3155.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24881.4	0.0	24881.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	28036.8	0.0	28036.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.9	1.2
10°-20°	781.1	2.8
20°-30°	1268.9	4.5
30°-40°	2117.2	7.6
40°-50°	4005.8	14.3
50°-60°	6365.2	22.7
60°-70°	7874.3	28.1
70°-80°	4894.7	17.5
80°-90°	395.6	1.4
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°	28036.8	100.0
0°-180°	28036.8	100.0

Coefficient of Utilization



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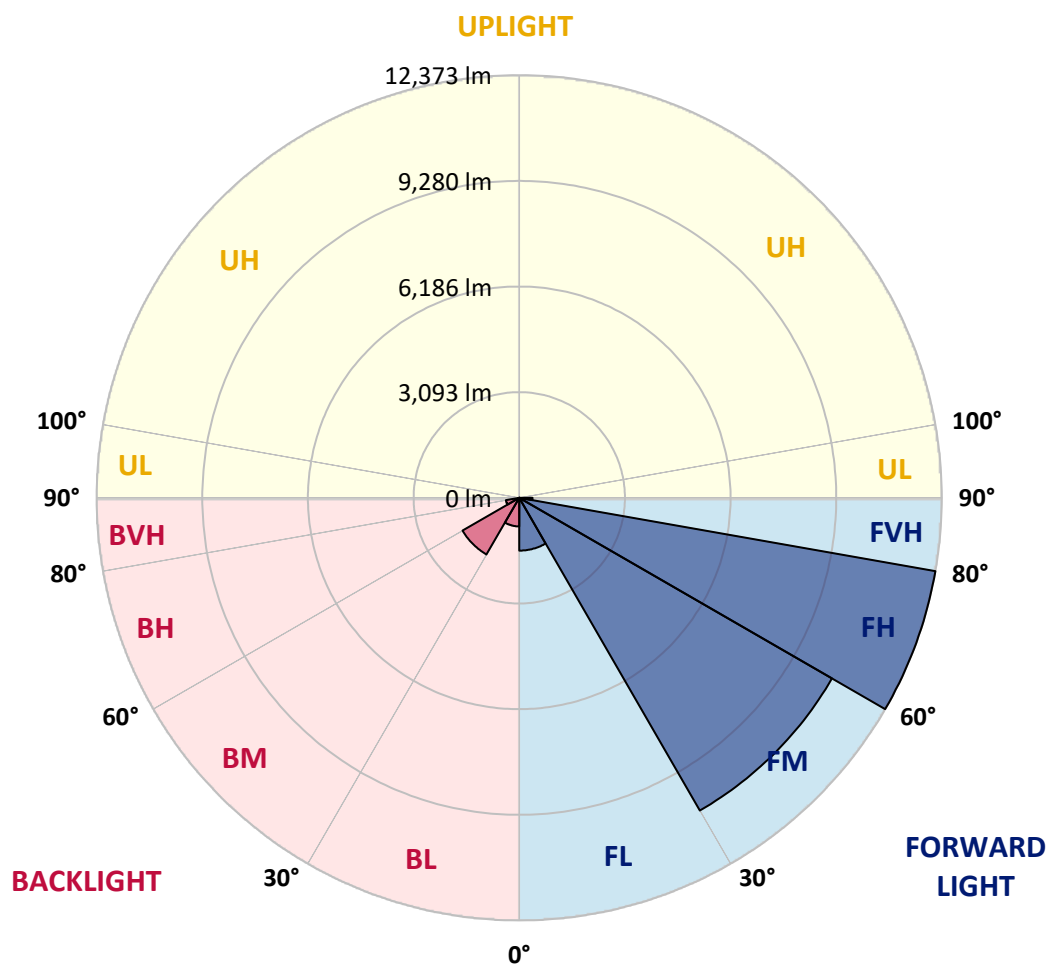
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1545.5	5.5			
FM	(30°-60°)	10572.7	37.7			
FH	(60°-80°)	12373.0	44.1			G5
FVH	(80°-90°)	390.2	1.4			G3/500
BL	(0°-30°)	838.5	3.0	B2/1000		
BM	(30°-60°)	1915.6	6.8	B2/2500		
BH	(60°-80°)	396.0	1.4	B1/500		G1/500
BVH	(80°-90°)	5.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5
2.5°	3882.7	3915.6	3921.8	3932.0	3932.0	3944.3	3964.9	3993.6	4040.9	4065.6	4082.0
5°	3578.7	3603.3	3634.1	3658.7	3706.0	3712.1	3792.3	3870.4	3979.3	4061.5	4119.0
7.5°	3272.5	3301.3	3342.4	3402.0	3463.6	3482.1	3603.3	3734.8	3907.3	4061.5	4158.0
10°	3056.9	3058.9	3095.9	3155.5	3254.1	3276.6	3424.6	3611.5	3827.2	4036.8	4194.9
12.5°	2935.6	2950.1	2966.5	3011.7	3106.2	3120.5	3278.8	3498.5	3747.1	4022.4	4238.1
15°	2935.6	2946.0	2956.2	2978.8	3054.8	3067.1	3206.8	3426.7	3706.0	4028.6	4308.0
17.5°	2966.5	2982.9	2974.7	3001.4	3081.5	3089.8	3213.0	3406.1	3703.9	4067.6	4414.8
20°	3040.5	3052.8	3036.4	3052.8	3132.9	3149.3	3276.6	3445.1	3738.9	4135.4	4548.3
22.5°	3157.5	3163.7	3124.6	3137.0	3219.1	3239.7	3387.6	3556.0	3823.1	4244.2	4727.0
25°	3305.4	3317.7	3258.2	3272.5	3350.6	3375.2	3545.8	3722.5	3956.6	4394.2	4955.1
27.5°	3476.0	3482.1	3430.8	3428.7	3529.4	3564.2	3736.8	3927.9	4135.4	4583.2	5242.7
30°	3671.1	3689.6	3640.3	3632.1	3759.4	3788.2	3958.8	4180.6	4398.4	4866.7	5651.4
32.5°	3825.2	3839.5	3810.7	3831.3	3960.8	3983.4	4227.8	4538.0	4811.2	5269.3	6208.2
35°	4047.0	4055.2	3989.5	4026.5	4174.4	4231.9	4595.6	5039.3	5331.0	5774.7	6935.5
37.5°	4850.3	4850.3	4570.9	4388.0	4529.8	4581.1	5098.9	5670.0	5972.0	6452.7	7851.7
40°	5961.7	5943.2	5534.4	5160.5	5142.0	5242.7	5815.8	6465.0	6799.8	7266.2	8883.0
42.5°	7147.0	7118.3	6561.5	6191.7	6130.1	6165.1	6643.7	7444.9	7785.9	8258.4	9992.3
45°	8198.9	8190.7	7681.1	7184.0	7073.1	7184.0	7677.0	8591.2	8835.7	9332.8	11099.6
47.5°	9080.2	9080.2	8708.3	8383.8	8326.2	8392.0	9076.1	9862.9	9840.3	10477.1	12178.1
50°	10095.0	10086.8	9733.4	9593.8	9653.3	9745.8	10686.6	11202.3	10879.8	11600.8	13141.6
52.5°	10805.8	10855.2	10733.9	10711.4	11015.4	11175.6	12321.9	12513.0	11810.4	12667.1	13862.6
55°	11368.7	11426.2	11565.9	11724.1	12309.5	12519.1	13905.8	13755.8	12588.9	13591.5	14277.6
57.5°	12165.7	12083.6	12299.3	12611.6	13558.6	13811.3	15440.4	14928.8	13215.5	14341.3	14322.8
60°	13133.3	13145.7	13182.6	13577.2	14805.6	15130.2	16952.4	16038.2	13618.2	14801.5	13821.6
62.5°	14296.1	14314.6	14390.6	14996.7	16479.8	16786.0	18563.0	16946.2	13803.1	14672.1	12527.3
65°	14216.0	14294.0	15142.5	17215.3	19025.2	19327.2	20442.7	17583.1	13523.6	13488.8	10199.8
67.5°	12950.6	13077.9	14497.5	19865.4	22862.7	23199.6	22714.8	17708.4	12317.8	10489.4	6654.0
70°	11290.6	11335.8	13043.0	22248.4	27306.2	27647.2	24748.6	16329.9	9347.2	5850.7	2980.8
72.5°	8817.3	8827.5	10830.5	22801.0	29718.0	29736.5	23152.4	12122.7	5027.0	2247.4	1035.4
75°	6298.6	6236.9	7253.8	18491.1	26145.5	26355.1	17357.0	5686.4	1920.8	1062.1	515.7
77.5°	3377.4	3445.1	4104.6	10966.1	18061.7	18419.1	9470.5	1639.4	977.8	723.1	341.0
80°	1043.6	1101.2	1682.5	5020.8	10230.6	10446.3	3510.8	729.3	682.0	515.7	224.0
82.5°	328.7	341.0	784.7	2109.8	4246.3	4344.9	1016.9	413.0	466.4	341.0	131.5
85°	94.5	96.6	349.2	786.8	1049.8	1070.3	285.6	160.2	267.0	211.6	67.8
87.5°	10.2	32.9	131.5	131.5	92.5	90.4	30.9	35.0	76.1	26.8	12.3
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°	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5	4063.5
2.5°	4071.7	4073.8	4047.0	4001.8	3952.5	3911.5	3860.0	3819.0	3790.2	3782.0	3796.4
5°	4100.4	4086.1	4010.1	3872.4	3708.0	3566.3	3408.1	3282.9	3200.7	3165.7	3178.0
7.5°	4143.6	4102.5	3936.1	3664.9	3350.6	3071.2	2787.7	2567.9	2428.2	2358.4	2368.7
10°	4180.6	4098.4	3812.9	3365.0	2884.2	2461.1	2079.0	1813.9	1666.0	1596.2	1598.3
12.5°	4215.5	4096.3	3652.6	3009.6	2358.4	1840.7	1485.3	1353.8	1312.7	1298.4	1294.3
15°	4281.2	4102.5	3451.3	2602.9	1834.5	1390.8	1261.4	1259.3	1267.5	1263.4	1261.4
17.5°	4371.6	4108.7	3223.2	2171.5	1415.4	1226.4	1220.3	1238.8	1251.1	1245.0	1242.9
20°	4488.7	4133.3	2980.8	1744.1	1216.2	1185.3	1199.8	1216.2	1226.4	1216.2	1214.1
22.5°	4653.1	4176.5	2715.8	1401.1	1152.5	1160.7	1173.0	1191.6	1201.8	1187.4	1185.3
25°	4854.4	4244.2	2455.0	1218.2	1121.7	1131.9	1150.5	1171.0	1183.3	1168.9	1166.9
27.5°	5115.3	4353.2	2214.6	1177.1	1090.8	1097.1	1123.7	1154.6	1171.0	1152.5	1152.5
30°	5493.3	4531.8	2007.1	1195.7	1072.4	1058.0	1095.0	1138.1	1156.6	1140.1	1138.1
32.5°	5994.5	4784.6	1879.7	1224.4	1064.2	1012.8	1047.8	1103.2	1134.0	1123.7	1123.7
35°	6651.9	5168.7	1830.4	1257.3	1058.0	965.6	990.1	1049.8	1103.2	1113.5	1113.5
37.5°	7449.0	5702.8	1844.8	1271.6	1039.5	926.5	938.8	990.1	1060.1	1093.0	1101.2
40°	8355.0	6325.3	1927.0	1257.3	1019.0	893.6	895.6	934.7	996.4	1045.7	1062.1
42.5°	9289.7	7052.5	2079.0	1203.9	1000.5	864.9	858.7	885.4	926.5	961.4	975.8
45°	10179.3	7800.4	2229.0	1129.9	977.8	836.1	821.7	832.0	840.2	854.6	862.8
47.5°	10955.8	8326.2	2185.8	1062.1	947.0	803.3	778.6	774.5	749.8	747.7	745.7
50°	11492.0	8441.3	1941.4	994.2	901.9	766.3	727.2	702.5	659.5	638.9	640.9
52.5°	11662.4	7987.2	1586.0	926.5	827.9	717.0	661.5	622.5	569.1	550.5	548.5
55°	11436.4	7097.7	1267.5	844.3	725.2	651.2	589.6	538.2	495.1	472.5	472.5
57.5°	10883.9	5965.8	1002.6	747.7	616.3	577.3	515.7	464.3	427.3	404.7	400.6
60°	9967.6	4737.3	792.9	632.7	525.9	497.1	433.5	400.6	367.8	341.0	334.9
62.5°	8576.9	3381.5	622.5	501.2	439.6	406.7	369.8	345.1	306.1	269.2	262.9
65°	6693.0	2068.8	480.7	367.8	353.3	336.9	314.3	291.7	244.5	207.5	201.3
67.5°	4221.7	979.9	343.1	277.4	279.4	271.2	260.9	242.4	207.5	174.7	170.6
70°	1859.1	474.6	226.0	211.6	207.5	207.5	215.7	209.5	176.7	145.9	139.7
72.5°	632.7	254.7	168.4	160.2	150.0	147.9	180.8	174.7	141.8	113.0	106.8
75°	330.8	170.6	123.3	115.0	90.4	108.9	143.8	135.6	100.7	74.0	67.8
77.5°	215.7	121.2	84.3	74.0	51.4	71.9	106.8	94.5	59.6	37.0	32.9
80°	135.6	80.2	49.3	35.0	24.7	39.1	57.5	41.1	22.5	8.2	6.1
82.5°	71.9	41.1	18.4	12.3	10.2	12.3	14.3	10.2	4.1	0.0	0.0
85°	28.8	14.3	6.1	4.1	2.0	0.0	4.1	2.0	0.0	0.0	0.0
87.5°	10.2	2.0	0.0	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)