

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: P959441

Luminaire Tested: **NAV-SB1A-830-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-830-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

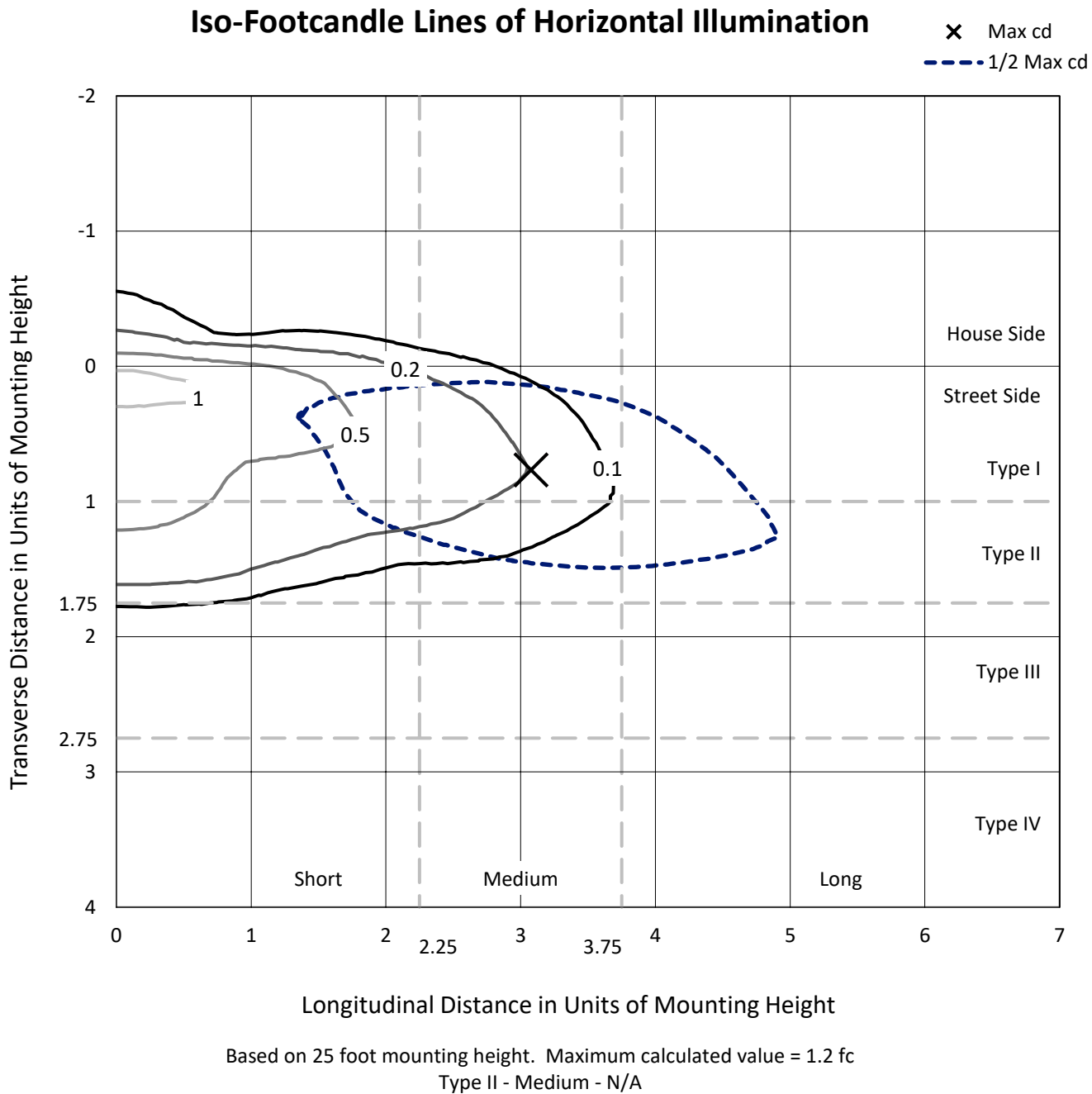
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3349.7 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 30.9
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



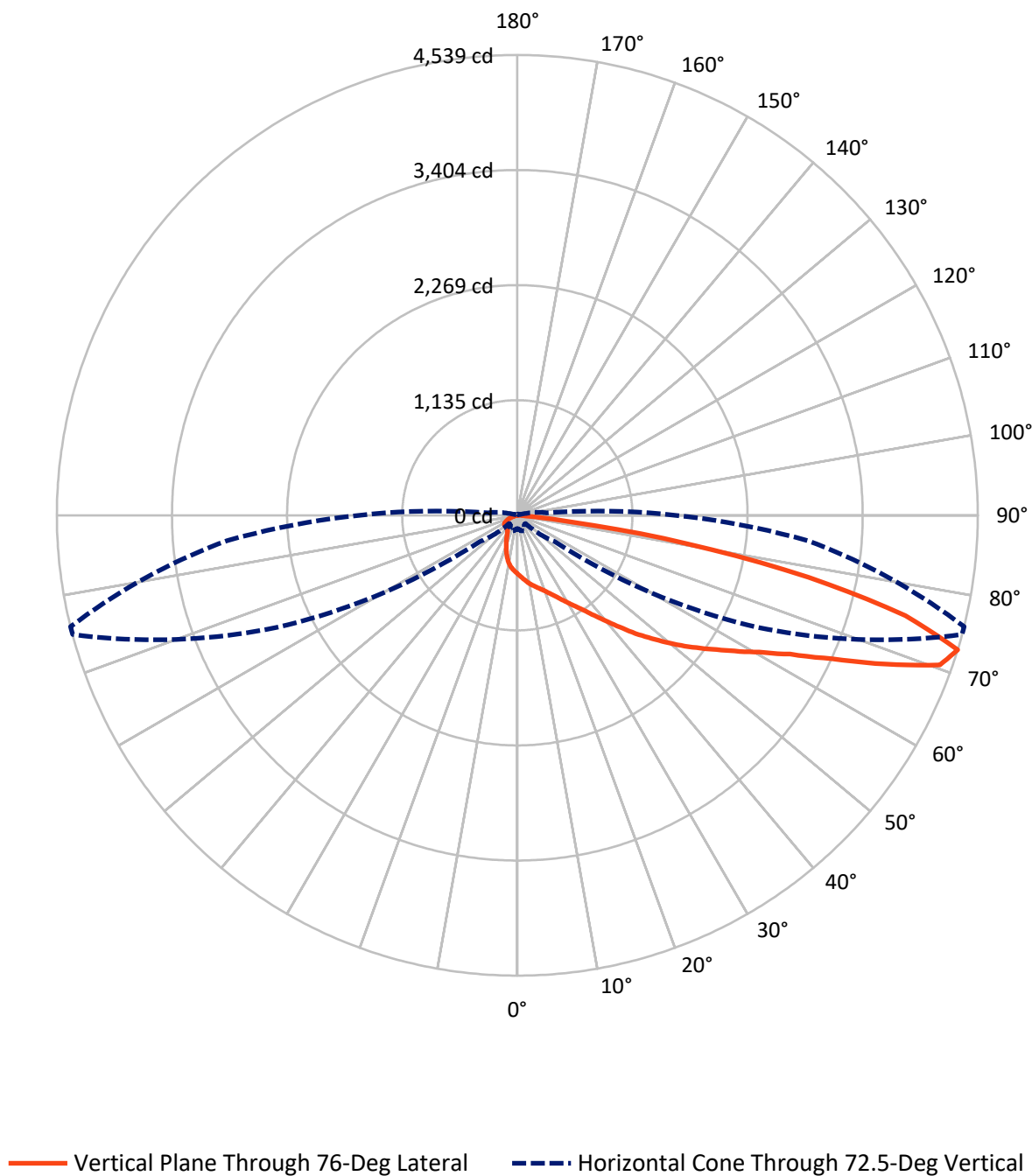
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Luminous Intensity Polar Plot



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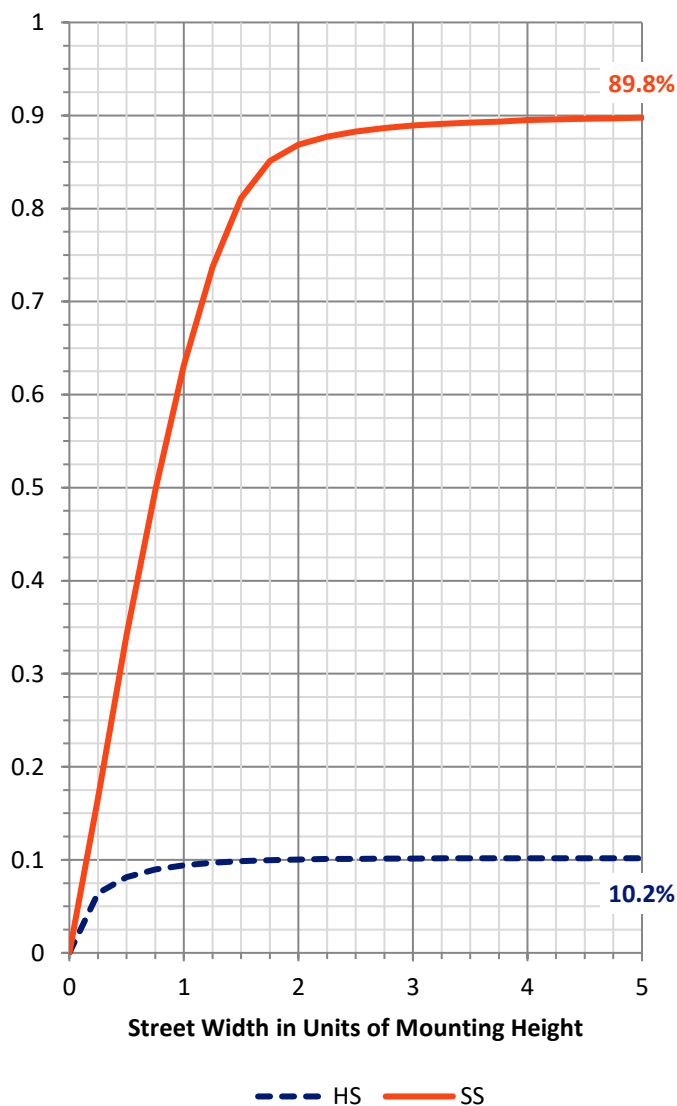
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	342.8	0.0	342.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3006.9	0.0	3006.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	3349.7	0.0	3349.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.6
10°-20°	141.2	4.2
20°-30°	223.4	6.7
30°-40°	345.7	10.3
40°-50°	525.0	15.7
50°-60°	723.8	21.6
60°-70°	764.6	22.8
70°-80°	524.5	15.7
80°-90°	48.8	1.5
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°	3349.7	100.0
0°-180°	3349.7	100.0

Coefficient of Utilization



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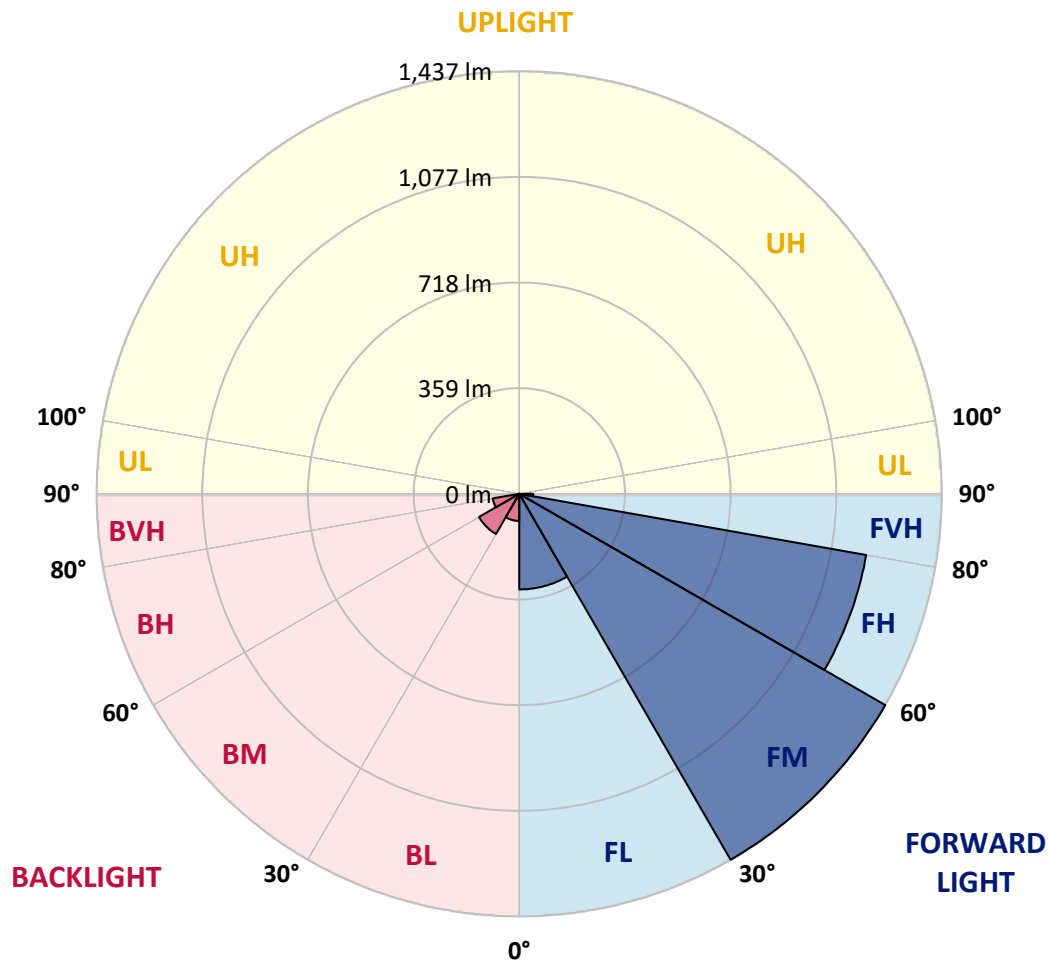
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.1	9.7			
FM	(30°-60°)	1436.6	42.9			
FH	(60°-80°)	1197.7	35.8			G1/1800
FVH	(80°-90°)	47.5	1.4			G1/100
BL	(0°-30°)	92.2	2.8	B0/110		
BM	(30°-60°)	157.8	4.7	B0/220		
BH	(60°-80°)	91.5	2.7	B0/110		G0/110
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	672.9	664.0	665.7	656.8	652.7	642.8	632.3	618.6	603.4	603.4	588.7
5°	743.7	738.1	738.1	727.7	719.7	704.0	685.3	661.2	632.5	629.7	601.7
7.5°	787.2	783.7	786.0	779.8	773.4	757.1	734.8	703.4	662.8	659.3	617.0
10°	795.7	795.5	801.6	803.3	807.7	799.4	779.6	743.3	692.5	687.5	630.4
12.5°	762.9	758.8	773.8	791.4	816.1	827.2	817.0	779.8	719.7	712.7	642.8
15°	709.0	709.9	724.3	751.4	792.6	832.2	845.4	815.5	747.2	739.0	654.5
17.5°	678.1	674.9	687.3	711.7	757.3	813.1	858.7	848.7	776.5	767.2	666.5
20°	674.4	674.2	677.1	688.2	722.9	785.8	857.2	881.1	811.2	800.3	683.6
22.5°	700.1	699.7	697.3	695.2	704.7	759.0	850.6	911.9	852.4	840.7	708.0
25°	739.4	738.8	735.1	721.8	712.5	744.7	844.6	940.6	901.3	888.3	737.5
27.5°	787.4	787.0	780.3	760.2	736.2	746.0	841.5	970.2	957.8	944.9	771.6
30°	846.3	845.4	831.6	803.3	771.8	766.6	845.7	1003.5	1016.7	1007.0	810.9
32.5°	920.2	917.8	899.5	857.0	812.9	794.2	853.5	1037.5	1086.4	1077.3	863.5
35°	977.3	973.6	963.0	925.5	860.5	828.1	871.8	1078.0	1170.3	1162.2	930.6
37.5°	1026.4	1022.7	1014.1	983.3	928.6	871.4	901.1	1131.9	1269.4	1265.5	1012.6
40°	1079.5	1073.4	1069.3	1036.3	987.0	933.7	943.0	1194.8	1383.4	1384.0	1111.0
42.5°	1120.3	1118.0	1118.4	1093.0	1043.2	1007.6	998.7	1265.9	1520.2	1524.3	1229.4
45°	1155.3	1153.3	1161.4	1143.6	1099.9	1056.1	1063.8	1346.3	1669.6	1678.1	1361.9
47.5°	1182.2	1184.5	1196.0	1184.5	1158.8	1090.1	1121.7	1433.1	1826.8	1827.9	1498.9
50°	1209.2	1210.1	1229.2	1223.5	1213.1	1133.3	1174.9	1529.9	1992.3	1994.2	1626.9
52.5°	1217.7	1216.4	1246.8	1260.8	1261.2	1186.8	1243.7	1635.5	2154.7	2160.9	1758.5
55°	1174.2	1177.9	1227.0	1283.5	1306.0	1260.8	1336.8	1769.2	2327.6	2330.2	1888.9
57.5°	961.8	982.2	1090.8	1221.8	1334.8	1366.5	1470.4	1925.4	2527.2	2524.9	2021.0
60°	583.6	607.9	737.9	1024.7	1240.5	1472.8	1667.3	2167.5	2745.5	2738.7	2154.7
62.5°	326.4	333.7	375.3	613.4	943.5	1405.2	1859.6	2478.3	3038.3	3015.5	2286.1
65°	240.6	242.9	252.7	300.5	463.7	1080.8	1817.4	2850.2	3449.9	3409.3	2443.6
67.5°	209.0	211.5	221.0	227.6	207.0	567.7	1497.3	3056.3	3972.5	3919.2	2656.8
70°	176.0	177.3	192.7	197.1	148.2	216.0	962.0	2992.7	4456.2	4418.2	2885.6
72.5°	131.2	136.4	158.9	169.2	118.9	114.7	452.8	2616.6	4538.1	4538.5	2870.2
75°	89.1	93.9	119.5	139.3	91.7	80.4	182.8	1953.9	3951.6	3951.6	2516.0
77.5°	60.9	64.8	83.2	109.3	69.5	55.1	94.7	1240.0	2834.9	2934.7	1793.2
80°	27.0	29.3	53.7	79.3	52.8	35.7	53.7	679.1	1714.4	1693.3	702.9
82.5°	13.2	15.2	34.3	49.5	34.1	21.9	28.3	322.9	555.7	528.0	109.8
85°	2.6	3.5	18.4	21.1	15.9	9.7	10.7	99.3	66.9	76.5	23.3
87.5°	0.0	0.0	5.6	3.9	1.7	2.2	2.2	8.9	5.2	6.0	6.0
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°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	580.8	572.8	555.1	537.8	520.0	503.7	492.4	481.0	474.2	471.1	471.5
5°	585.4	569.1	532.2	493.4	455.2	417.9	389.8	363.6	355.3	341.5	342.5
7.5°	592.6	566.0	507.8	442.6	380.5	325.7	286.2	254.7	242.1	229.9	229.7
10°	597.4	560.4	475.6	388.5	304.4	242.9	205.1	182.3	174.0	166.7	166.5
12.5°	599.3	549.9	438.7	327.9	236.9	185.1	162.6	151.9	149.0	146.5	146.5
15°	601.1	539.8	397.4	269.5	187.1	154.9	146.1	142.6	140.6	138.9	138.9
17.5°	602.5	526.7	350.2	219.0	158.0	142.8	138.4	134.7	133.1	131.2	131.2
20°	607.7	514.1	308.1	180.8	142.1	134.1	129.3	125.4	124.0	122.8	123.0
22.5°	617.6	503.9	267.2	154.9	132.5	125.2	119.1	114.7	113.9	113.0	112.3
25°	629.2	491.3	228.8	138.2	123.2	114.9	108.2	104.6	103.6	103.8	103.4
27.5°	644.2	477.3	195.8	127.5	114.9	105.4	97.8	94.9	95.4	96.2	95.8
30°	660.8	464.5	169.9	120.1	107.5	96.9	89.3	87.3	88.9	90.2	89.8
32.5°	685.3	453.3	151.9	114.3	101.1	90.0	83.8	81.5	83.2	85.0	84.6
35°	718.8	447.6	141.7	109.3	95.4	84.6	78.4	76.7	78.4	78.9	78.6
37.5°	759.8	447.2	137.4	105.2	90.2	79.9	73.2	72.6	73.9	74.1	73.7
40°	812.9	450.0	134.1	102.1	84.8	74.7	68.5	67.8	68.3	69.7	69.5
42.5°	880.1	461.8	129.5	98.2	78.9	69.5	64.6	63.0	62.8	64.6	64.3
45°	964.3	487.6	123.4	91.9	73.7	65.2	60.2	58.4	57.8	58.2	58.8
47.5°	1056.3	519.4	117.4	86.0	70.0	61.7	56.7	54.5	53.4	53.4	53.4
50°	1145.3	555.1	113.2	79.9	67.3	58.4	53.0	50.8	49.1	48.7	48.5
52.5°	1233.6	590.4	110.0	73.9	64.3	54.3	49.5	47.2	45.2	44.3	43.9
55°	1313.9	623.8	104.3	68.1	60.4	50.0	46.0	43.7	41.3	39.8	39.2
57.5°	1391.1	651.7	93.9	61.9	54.3	45.8	42.3	39.8	36.9	35.0	34.1
60°	1461.2	665.9	80.9	55.5	48.3	41.5	38.2	35.9	32.2	28.9	28.0
62.5°	1514.7	660.3	66.7	48.0	41.9	37.6	33.4	31.1	26.8	22.9	21.3
65°	1569.5	629.5	53.2	40.2	36.7	32.4	28.0	25.6	20.6	16.5	15.5
67.5°	1640.5	563.6	41.9	33.4	31.8	25.6	21.9	20.4	16.9	13.0	12.2
70°	1686.1	437.9	32.6	27.2	26.0	18.7	16.9	16.7	13.4	10.0	8.9
72.5°	1561.0	287.0	25.0	20.6	18.7	12.2	13.0	13.0	9.7	6.8	5.8
75°	1303.1	168.0	18.0	14.8	10.7	7.8	8.9	8.9	6.0	3.3	2.6
77.5°	930.6	89.5	12.0	9.1	5.4	3.5	4.8	4.6	1.9	0.2	0.0
80°	355.9	30.9	5.6	3.7	1.5	0.6	0.4	0.2	0.2	0.0	0.0
82.5°	54.3	8.0	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	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)