

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: P959455

Luminaire Tested: **NAV-SB1A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959455
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-SB1A-830-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

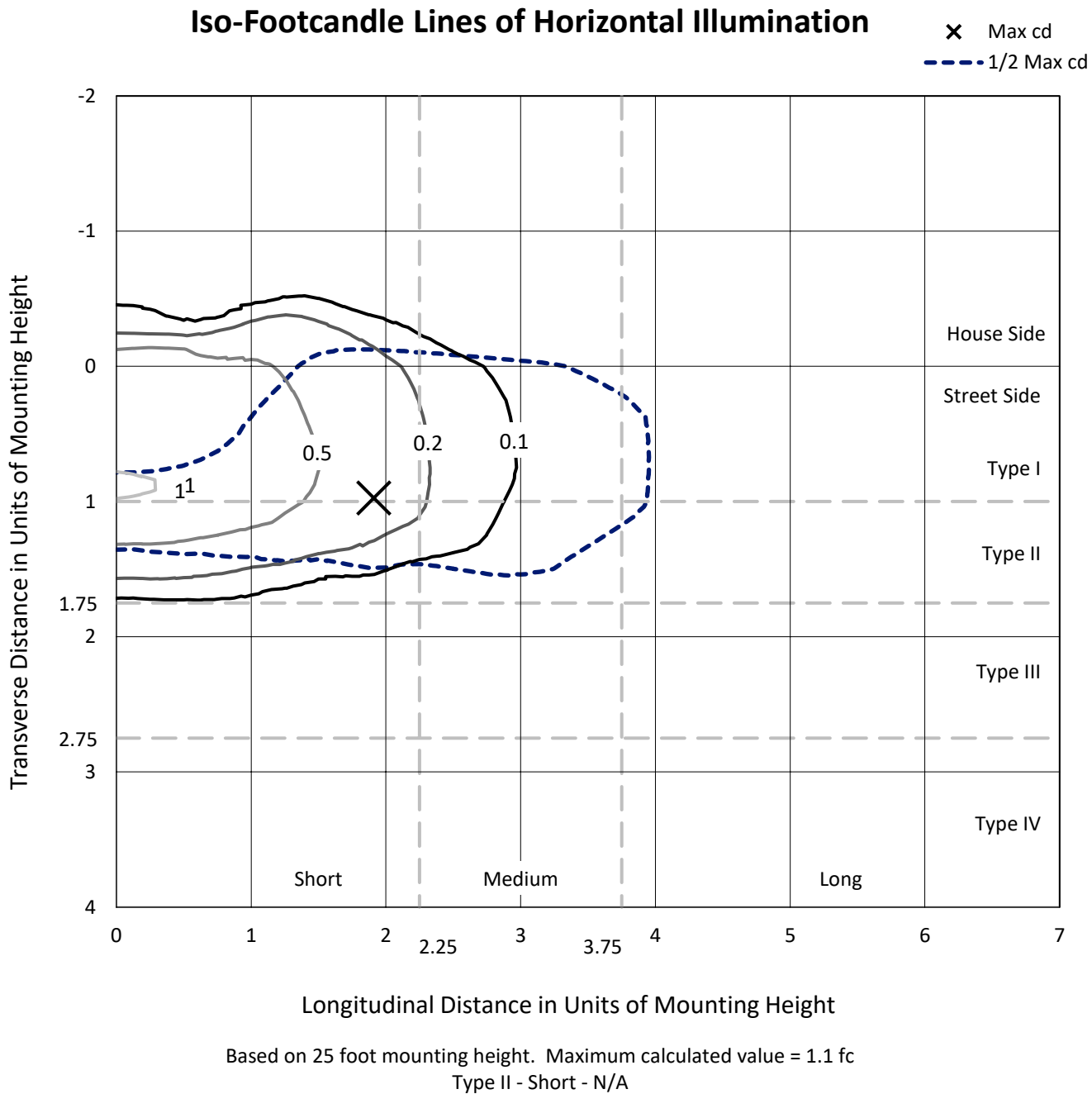
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

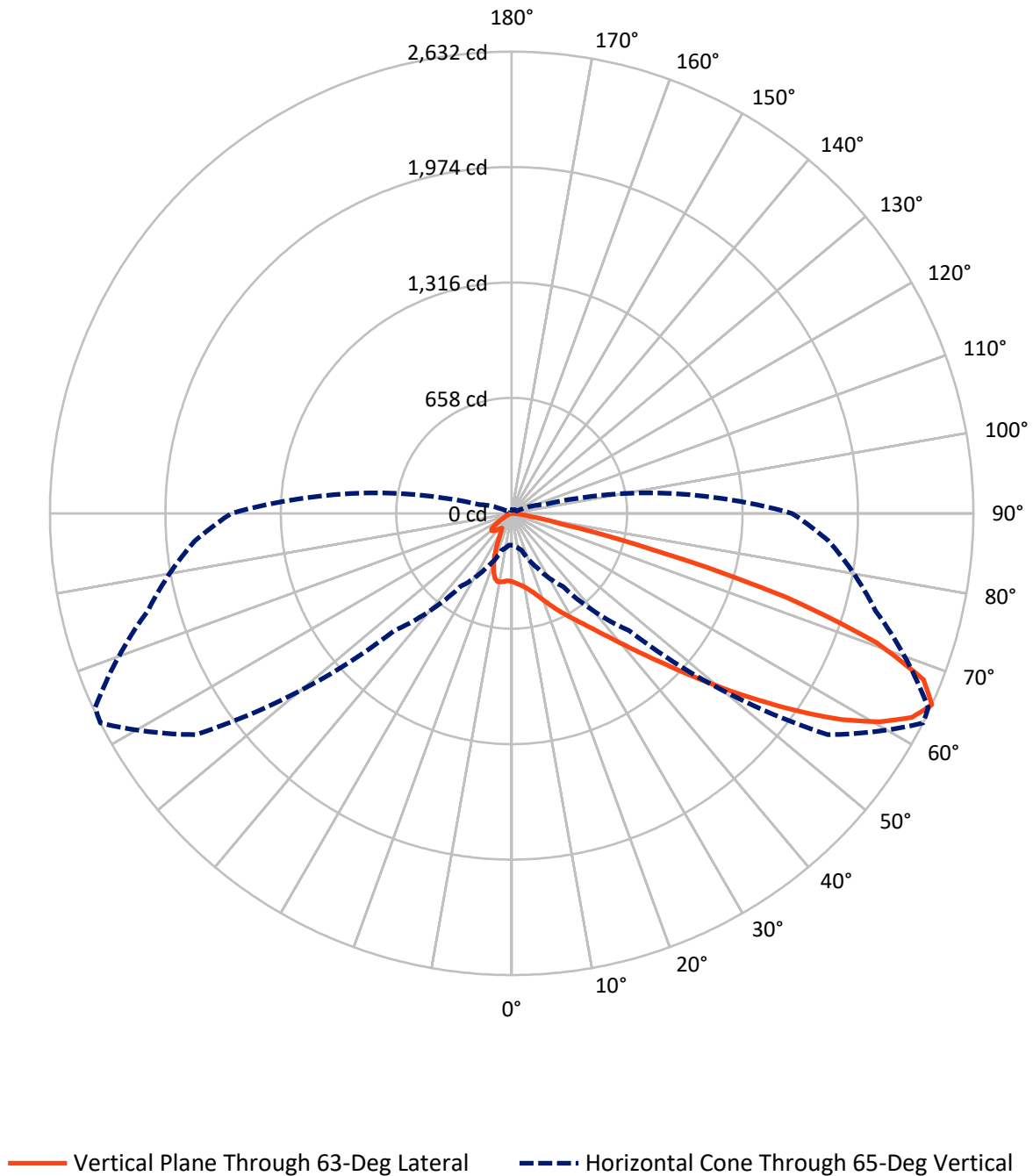


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Luminous Intensity Polar Plot



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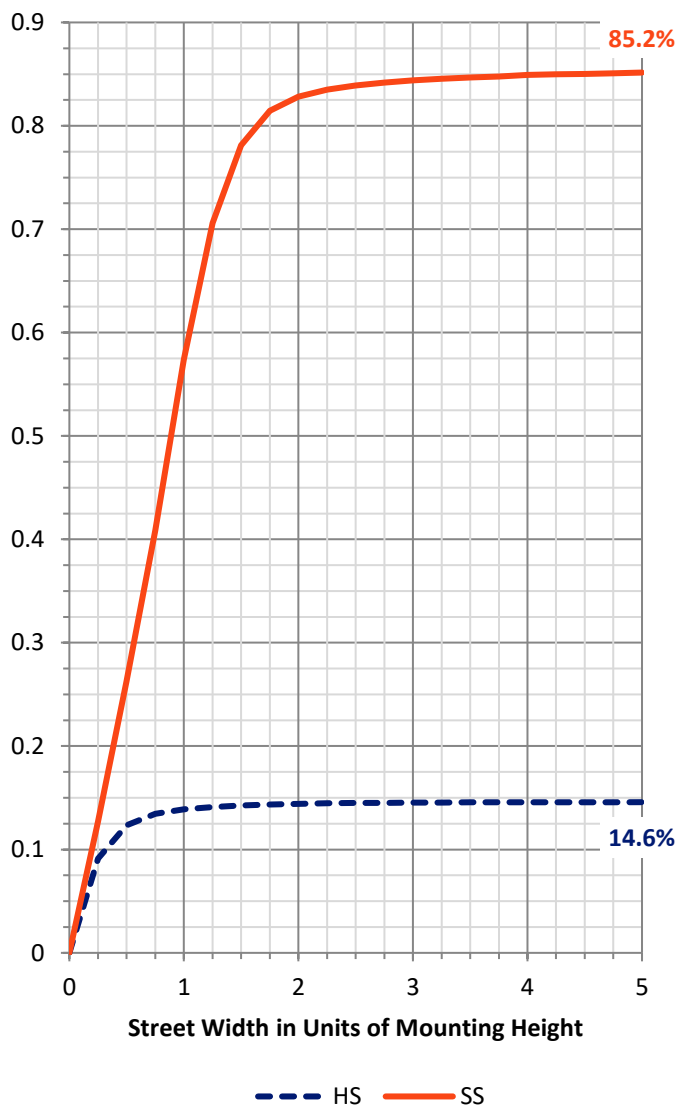
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	464.2	0.0	464.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2693.8	0.0	2693.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	3158.0	0.0	3158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	1.2
10°-20°	101.9	3.2
20°-30°	177.4	5.6
30°-40°	319.8	10.1
40°-50°	634.2	20.1
50°-60°	863.9	27.4
60°-70°	689.6	21.8
70°-80°	312.1	9.9
80°-90°	22.4	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°	3158.0	100.0
0°-180°	3158.0	100.0

Coefficient of Utilization



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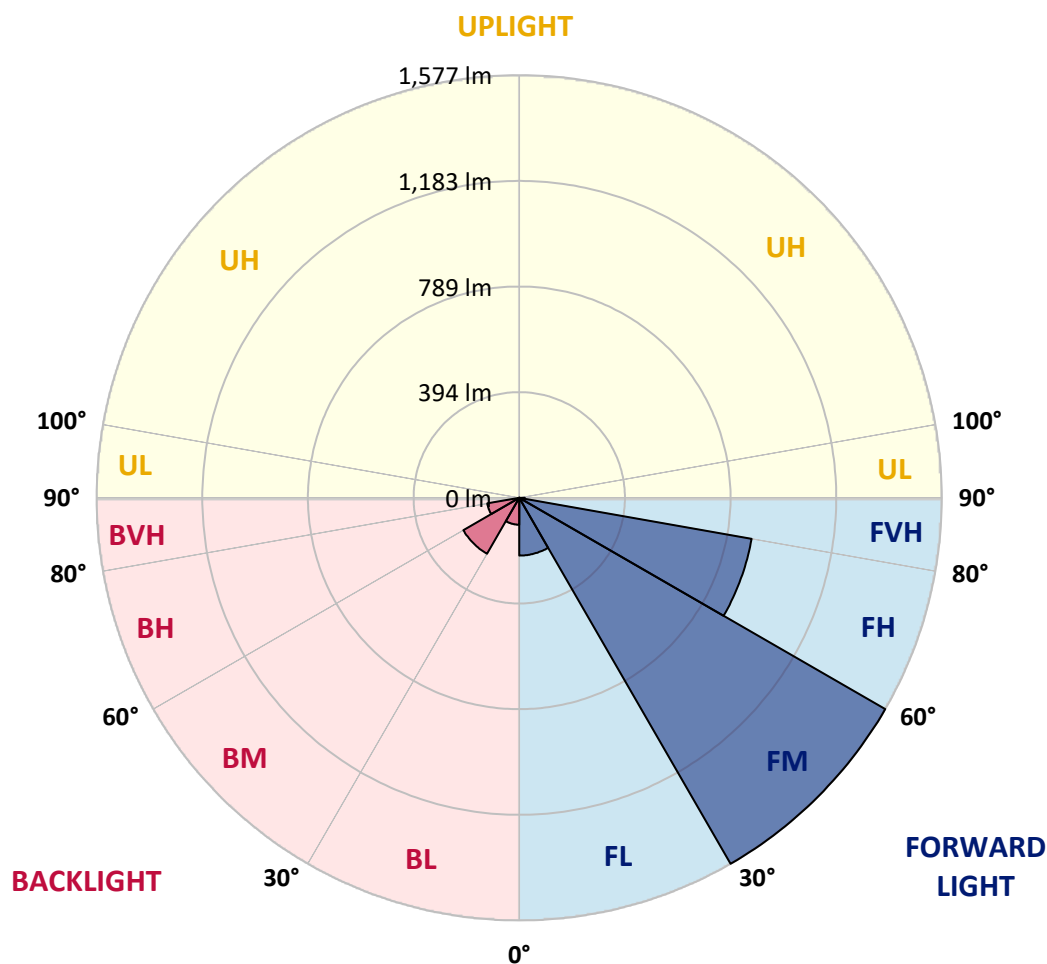
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.6	6.8			
FM	(30°-60°)	1577.0	49.9			
FH	(60°-80°)	880.5	27.9			G1/1800
FVH	(80°-90°)	20.8	0.7			G1/100
BL	(0°-30°)	100.5	3.2	B0/110		
BM	(30°-60°)	240.9	7.6	B1/1000		
BH	(60°-80°)	121.2	3.8	B1/500		G1/500
BVH	(80°-90°)	1.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8
2.5°	398.9	397.8	399.3	398.6	398.2	397.4	396.9	396.5	395.6	394.9	392.4
5°	400.0	399.3	400.9	402.1	403.4	404.8	405.4	406.3	405.4	403.6	401.1
7.5°	390.8	390.4	393.7	397.6	403.4	408.5	413.9	416.9	417.2	416.5	413.7
10°	390.2	389.1	392.4	397.2	404.8	413.7	423.2	429.8	430.6	433.5	430.4
12.5°	400.4	399.3	403.8	409.1	416.9	426.3	438.0	447.1	448.4	452.3	450.2
15°	417.6	416.0	421.3	428.0	438.0	448.6	461.0	469.2	470.4	475.2	471.2
17.5°	437.6	436.0	442.1	449.3	460.1	474.7	489.0	498.2	499.5	502.6	495.4
20°	463.2	461.2	466.1	472.5	484.0	501.4	518.5	531.7	531.5	531.5	519.7
22.5°	492.9	489.9	494.0	499.3	510.1	531.2	554.0	569.4	569.4	563.3	544.0
25°	524.9	521.8	526.4	531.2	540.8	564.7	591.4	610.5	611.4	601.0	570.1
27.5°	564.9	561.0	564.5	570.1	575.7	600.0	631.8	653.9	654.4	638.3	594.8
30°	641.8	630.7	619.8	613.8	616.3	640.5	674.3	698.9	701.1	679.0	621.8
32.5°	782.6	780.4	742.2	692.2	666.1	683.9	721.9	751.5	752.8	724.4	656.8
35°	1001.3	998.8	937.3	842.1	757.2	742.2	779.7	814.7	813.8	781.7	702.1
37.5°	1262.5	1260.1	1179.1	1051.8	914.2	830.1	854.2	890.9	896.4	854.2	760.9
40°	1485.6	1476.7	1425.5	1302.7	1122.8	976.1	960.3	984.6	990.3	940.3	835.4
42.5°	1654.7	1647.1	1620.9	1544.3	1375.2	1192.1	1085.2	1094.5	1100.8	1040.9	921.0
45°	1742.2	1740.4	1750.9	1743.7	1632.5	1457.1	1263.8	1224.9	1227.3	1152.3	1018.0
47.5°	1754.6	1753.7	1801.2	1868.7	1853.6	1756.1	1493.0	1387.4	1378.9	1278.2	1123.6
50°	1681.6	1679.9	1771.1	1897.3	2001.4	2007.3	1753.3	1570.5	1551.8	1408.2	1233.8
52.5°	1448.4	1448.0	1598.0	1808.0	2053.3	2227.1	2010.5	1771.7	1740.4	1546.0	1350.2
55°	1114.5	1122.6	1294.4	1542.7	1958.6	2332.9	2241.5	1995.1	1947.1	1684.6	1457.6
57.5°	789.6	801.2	971.2	1192.3	1664.8	2270.4	2397.7	2218.8	2167.2	1822.8	1566.4
60°	424.0	434.5	604.6	868.6	1238.6	2037.0	2480.0	2413.1	2364.2	1954.1	1664.6
62.5°	252.7	256.1	326.6	560.8	837.7	1556.3	2445.0	2561.1	2520.9	2064.1	1750.0
65°	181.4	182.0	217.5	342.3	508.6	945.5	2199.8	2631.9	2619.5	2147.2	1813.2
67.5°	152.7	152.3	167.1	227.4	346.6	473.7	1685.9	2531.8	2584.2	2199.8	1849.1
70°	131.0	131.6	149.0	166.7	260.5	268.1	838.1	2204.3	2316.4	2213.6	1846.9
72.5°	97.6	99.7	115.8	151.9	196.6	184.5	289.4	1634.5	1837.1	2085.7	1751.1
75°	68.9	70.0	81.5	127.7	146.7	134.3	147.7	844.9	1104.7	1599.0	1433.3
77.5°	53.0	54.9	61.7	89.3	144.5	94.3	90.4	292.4	449.3	966.0	982.7
80°	28.7	32.2	44.6	64.6	101.5	66.7	44.8	116.4	152.3	451.7	378.9
82.5°	14.8	16.5	31.1	46.5	57.8	58.2	22.1	48.5	62.8	139.5	52.0
85°	5.8	7.2	20.8	25.6	29.7	28.7	10.0	19.6	22.5	38.6	15.9
87.5°	1.3	2.2	7.6	5.8	5.6	6.0	2.4	4.6	4.3	4.6	2.9
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°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8
2.5°	392.2	391.2	388.9	386.3	383.2	381.5	380.4	380.2	378.6	377.6	378.6
5°	398.6	397.8	393.2	387.8	381.9	377.4	373.0	369.1	363.5	362.3	361.9
7.5°	411.7	409.3	401.9	394.5	383.5	370.2	354.1	335.7	319.2	314.2	311.8
10°	427.7	424.6	415.2	402.1	377.6	341.5	302.7	266.6	237.9	229.9	226.8
12.5°	446.1	443.2	430.8	406.7	353.0	287.6	228.2	183.4	155.6	148.6	146.7
15°	467.7	463.6	446.5	399.7	309.1	218.5	156.6	130.2	120.1	118.8	117.6
17.5°	490.8	484.0	460.3	374.7	250.1	155.4	121.1	113.4	109.1	107.7	107.1
20°	511.9	503.2	468.6	336.9	186.9	121.1	108.4	103.4	99.5	98.0	97.1
22.5°	532.9	520.6	468.6	285.5	140.1	107.3	99.5	94.9	90.4	88.5	87.3
25°	554.8	538.3	460.3	228.2	112.7	98.4	91.0	86.0	82.1	79.7	78.8
27.5°	576.2	553.4	441.5	173.8	100.3	90.6	83.2	78.4	74.7	73.0	73.0
30°	596.3	568.2	414.9	131.9	92.4	83.0	76.1	72.0	68.3	66.5	66.7
32.5°	623.7	586.8	386.7	108.2	85.4	75.8	69.5	65.6	62.3	61.1	61.1
35°	661.7	614.4	362.3	106.2	79.5	70.0	63.7	60.0	56.7	55.7	55.7
37.5°	715.7	659.0	349.5	119.3	74.7	64.8	58.8	54.9	52.0	51.0	50.8
40°	782.2	719.3	356.5	132.3	71.4	60.2	54.5	50.6	48.0	46.9	46.7
42.5°	861.0	793.9	394.9	142.3	69.3	56.3	50.4	46.0	44.3	43.9	43.9
45°	951.6	875.8	453.9	152.9	65.8	52.6	46.2	43.0	41.7	41.5	41.3
47.5°	1054.5	965.8	522.0	166.2	62.3	49.1	43.0	40.8	39.8	39.4	39.4
50°	1156.7	1056.3	592.2	173.6	59.6	45.8	40.4	38.6	37.8	37.6	37.6
52.5°	1263.6	1149.5	648.9	166.7	57.1	43.3	38.2	36.9	36.1	35.9	35.9
55°	1365.5	1224.9	658.8	141.4	52.4	40.6	35.9	35.2	34.1	34.1	33.9
57.5°	1453.2	1262.7	589.7	103.8	47.6	36.7	33.4	32.8	32.0	31.7	31.5
60°	1533.8	1251.8	455.2	70.0	42.3	32.8	30.4	30.0	29.1	28.0	27.8
62.5°	1579.2	1204.1	311.3	45.6	37.1	28.7	27.0	26.8	24.8	22.5	22.1
65°	1596.4	1105.9	194.2	33.2	31.1	24.6	23.3	22.9	20.0	17.6	17.4
67.5°	1581.4	944.2	98.0	26.2	24.6	20.4	19.2	19.2	17.1	15.0	14.8
70°	1521.4	707.9	41.3	21.1	18.9	15.7	15.7	16.5	14.6	12.2	12.0
72.5°	1391.3	476.2	21.9	16.1	14.1	11.1	12.8	13.4	11.5	9.1	9.1
75°	1106.1	290.5	15.2	12.0	8.9	7.8	9.7	10.2	7.8	6.0	5.8
77.5°	756.4	166.9	10.2	7.6	5.6	4.6	6.8	6.3	4.1	2.9	3.1
80°	332.2	69.5	5.8	3.5	2.2	1.7	2.4	1.7	1.3	0.8	0.8
82.5°	38.8	16.3	2.2	1.3	0.8	0.4	0.2	0.0	0.0	0.0	0.0
85°	8.0	1.9	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.4	0.2	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)