

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: P959845

Luminaire Tested: **NAV-SB1B-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-740-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

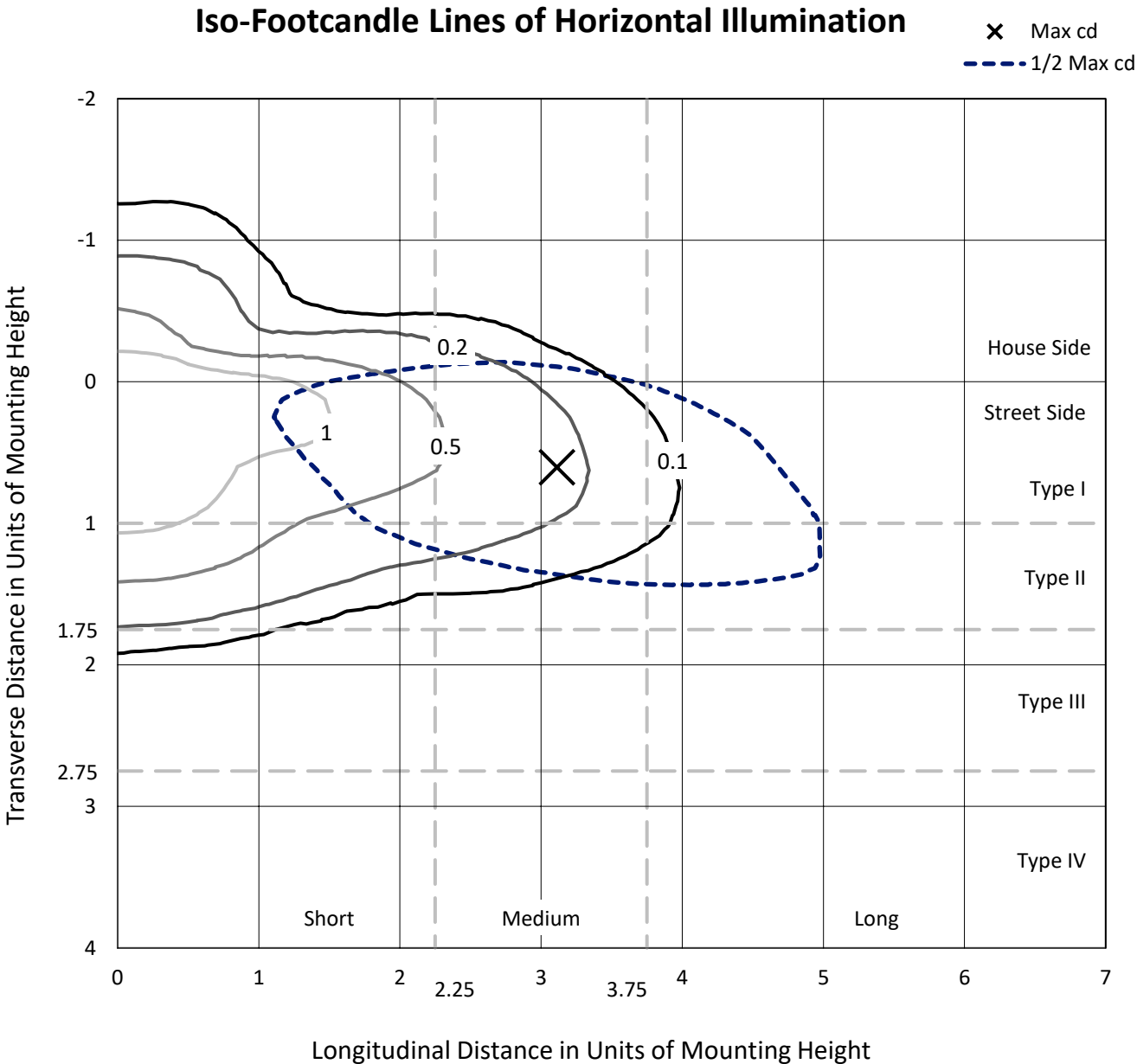
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6071.1 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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



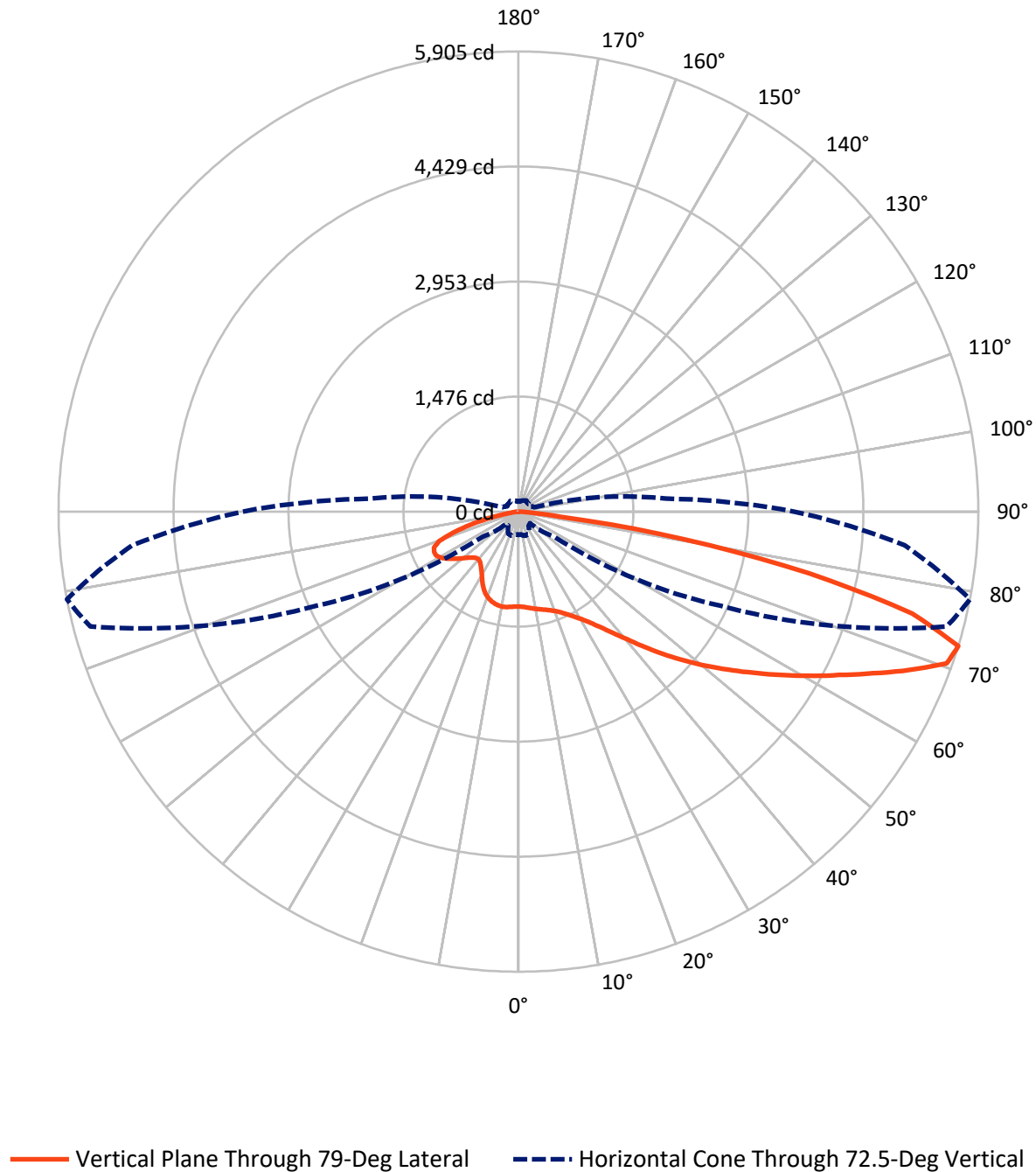
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Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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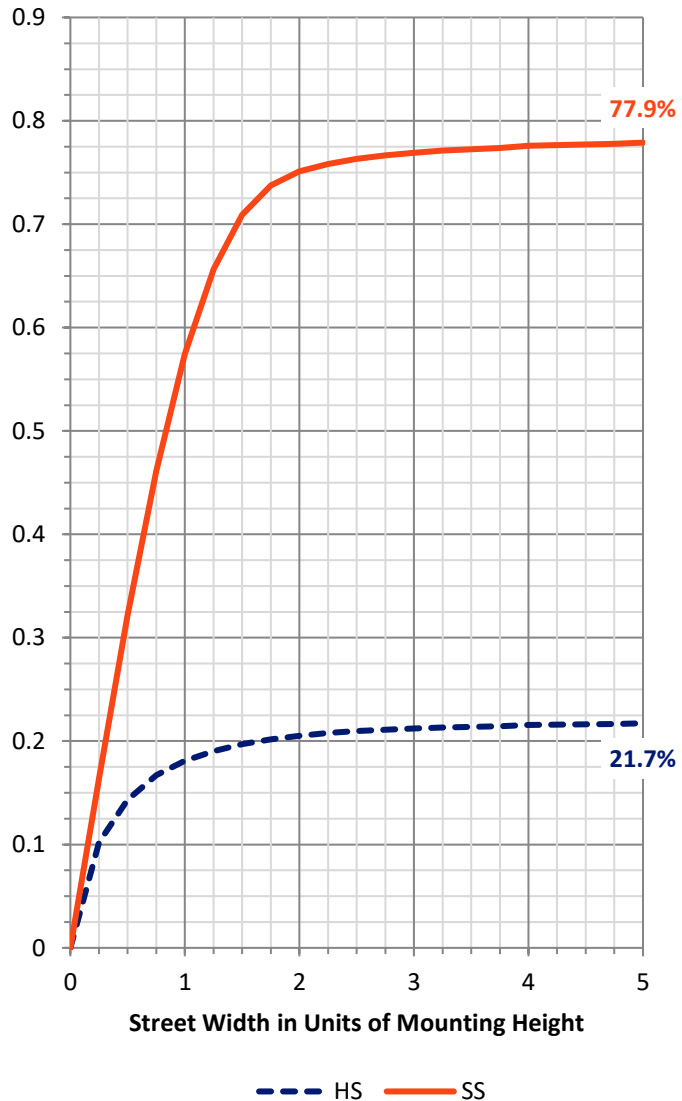
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1336.0	0.0	1336.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4735.1	0.0	4735.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	6071.1	0.0	6071.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	1.8
10°-20°	289.2	4.8
20°-30°	466.7	7.7
30°-40°	700.4	11.5
40°-50°	993.6	16.4
50°-60°	1254.8	20.7
60°-70°	1274.4	21.0
70°-80°	868.6	14.3
80°-90°	112.7	1.9
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°	6071.1	100.0
0°-180°	6071.1	100.0

Coefficient of Utilization



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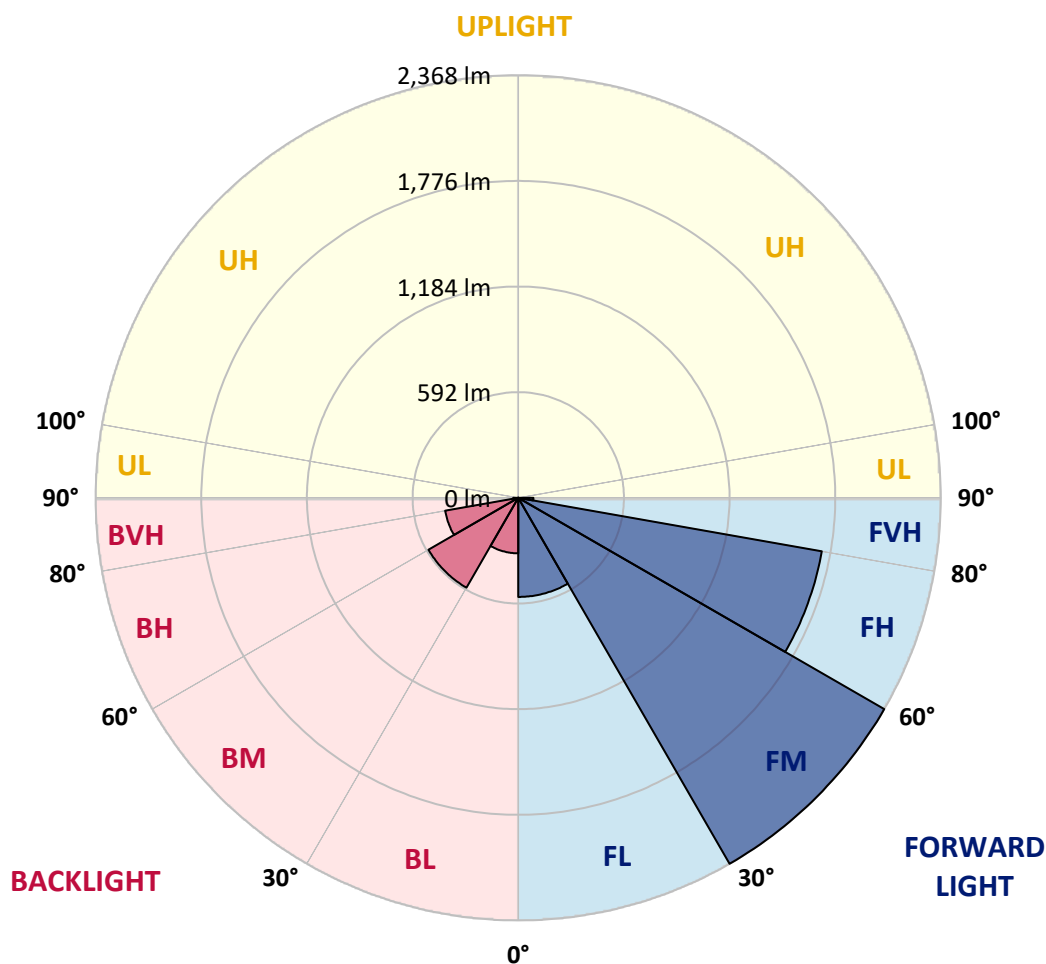
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.4	9.1			
FM	(30°-60°)	2367.8	39.0			
FH	(60°-80°)	1727.0	28.4			G1/1800
FVH	(80°-90°)	84.9	1.4			G1/100
BL	(0°-30°)	311.2	5.1	B1/500		
BM	(30°-60°)	581.0	9.6	B1/1000		
BH	(60°-80°)	416.0	6.9	B1/500		G1/500
BVH	(80°-90°)	27.8	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7
2.5°	1219.3	1213.6	1217.1	1215.9	1217.4	1219.3	1220.0	1221.0	1224.2	1223.8	1223.5
5°	1216.8	1211.0	1215.9	1214.2	1218.4	1222.9	1226.7	1230.3	1235.4	1237.7	1234.4
7.5°	1211.3	1207.4	1212.3	1217.1	1224.8	1231.5	1237.0	1245.1	1252.4	1253.7	1255.9
10°	1179.6	1176.6	1187.9	1200.4	1221.6	1239.9	1251.8	1261.1	1269.2	1270.4	1273.7
12.5°	1146.5	1142.9	1155.5	1172.5	1206.8	1239.9	1265.0	1277.1	1284.2	1288.4	1293.2
15°	1141.0	1138.1	1145.1	1160.0	1188.5	1231.2	1274.0	1296.4	1302.6	1307.4	1309.2
17.5°	1167.4	1161.8	1164.8	1169.9	1186.6	1223.2	1281.0	1318.3	1327.6	1332.7	1332.7
20°	1228.4	1220.7	1216.2	1205.9	1202.9	1224.5	1280.3	1344.6	1356.8	1363.2	1364.8
22.5°	1309.6	1304.4	1294.8	1268.8	1240.6	1240.2	1292.5	1378.3	1401.1	1407.2	1403.3
25°	1407.8	1400.1	1388.0	1352.6	1298.4	1271.4	1313.1	1421.4	1459.6	1461.1	1450.0
27.5°	1520.9	1509.3	1492.6	1446.1	1372.9	1320.2	1344.6	1470.8	1526.6	1526.0	1503.0
30°	1640.0	1628.5	1610.8	1554.3	1462.2	1386.0	1388.3	1524.1	1606.3	1602.8	1563.3
32.5°	1727.0	1718.4	1714.8	1671.2	1564.9	1463.7	1438.4	1583.2	1704.6	1701.4	1646.2
35°	1793.9	1782.6	1786.8	1764.6	1677.0	1550.7	1499.7	1653.5	1824.1	1823.7	1755.0
37.5°	1860.1	1850.0	1853.6	1838.8	1780.7	1661.2	1574.5	1739.6	1972.1	1979.2	1886.7
40°	1920.4	1909.8	1923.9	1910.1	1861.3	1778.8	1659.7	1836.9	2143.6	2157.1	2046.0
42.5°	1956.7	1948.3	1971.8	1972.1	1931.3	1878.0	1753.1	1944.1	2342.0	2372.3	2241.9
45°	1969.2	1966.4	2001.6	2009.0	1993.3	1935.5	1837.2	2061.1	2555.9	2609.9	2465.0
47.5°	1955.7	1950.3	1999.1	2026.3	2038.9	1962.5	1906.9	2187.6	2774.3	2853.3	2708.5
50°	1887.6	1877.1	1949.7	2007.1	2051.7	1980.1	1977.2	2333.7	3022.5	3108.9	2953.1
52.5°	1765.3	1757.3	1839.8	1939.7	2023.5	1988.8	2056.3	2493.3	3258.3	3370.0	3203.9
55°	1608.8	1598.3	1689.2	1819.6	1953.1	1985.9	2135.3	2671.9	3536.4	3649.7	3463.2
57.5°	1361.0	1339.8	1454.8	1608.8	1838.5	1982.4	2217.5	2849.4	3818.9	3954.8	3739.6
60°	999.4	967.9	1108.8	1291.6	1614.4	1948.0	2319.3	3048.6	4158.1	4280.4	4041.5
62.5°	581.9	563.5	655.8	826.3	1216.8	1745.7	2376.4	3280.1	4491.4	4619.9	4338.2
65°	451.8	446.7	454.7	467.9	677.3	1307.0	2200.1	3505.8	4915.3	5005.2	4647.5
67.5°	413.3	409.5	413.0	388.3	343.6	728.1	1740.6	3563.0	5369.4	5424.0	4918.2
70°	367.4	362.8	374.4	353.2	270.4	331.1	1124.6	3355.5	5730.7	5833.1	5124.1
72.5°	299.3	294.2	321.1	311.5	227.7	212.6	564.9	2862.6	5692.7	5905.3	4976.7
75°	229.9	227.0	259.1	267.2	185.6	167.3	271.0	2127.8	5009.7	5223.9	4289.1
77.5°	178.6	176.3	192.7	221.9	149.6	129.8	166.7	1349.7	3775.3	3812.8	2955.7
80°	133.9	127.5	142.6	171.8	116.5	94.7	113.1	787.1	2386.4	2163.2	1286.5
82.5°	83.8	80.6	93.2	114.6	82.2	65.2	73.5	434.8	956.3	563.2	248.3
85°	47.9	46.5	50.7	65.5	44.6	37.6	42.0	192.1	174.7	120.1	74.8
87.5°	19.3	18.7	23.2	29.2	16.4	13.8	14.8	46.2	38.5	35.7	24.7
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°	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7	1218.7
2.5°	1222.2	1222.2	1217.7	1210.7	1202.6	1197.5	1189.2	1186.9	1178.2	1175.7	1179.9
5°	1237.0	1234.4	1220.7	1200.7	1173.4	1148.4	1120.7	1103.4	1079.0	1070.3	1076.8
7.5°	1255.6	1248.6	1224.8	1181.1	1124.0	1067.7	1009.3	965.0	922.6	907.5	909.5
10°	1272.6	1262.7	1222.2	1145.8	1046.9	949.6	856.5	791.3	741.8	721.6	726.1
12.5°	1289.7	1271.4	1205.2	1087.0	937.4	805.4	706.2	655.5	624.9	600.5	608.5
15°	1305.7	1280.0	1178.9	1008.4	817.3	683.4	610.2	569.7	545.3	529.2	532.1
17.5°	1324.4	1287.4	1139.4	908.5	702.9	598.9	539.2	514.8	509.9	508.0	509.3
20°	1350.3	1294.2	1087.3	796.7	618.8	531.5	500.6	498.4	498.0	497.1	500.3
22.5°	1378.3	1302.2	1018.6	695.3	547.2	489.4	483.9	479.5	476.5	476.2	479.8
25°	1411.4	1304.8	932.5	612.1	486.2	469.4	463.1	456.3	454.4	454.4	456.3
27.5°	1443.5	1296.1	832.4	539.9	451.8	451.2	442.8	440.6	440.2	441.3	443.8
30°	1475.6	1279.7	732.9	473.0	431.9	431.9	429.1	430.6	431.9	435.1	437.4
32.5°	1518.9	1262.4	649.6	423.5	414.6	411.3	414.3	417.5	418.7	422.9	426.5
35°	1582.6	1250.2	583.5	396.6	396.6	392.5	394.0	393.4	390.5	388.6	393.1
37.5°	1666.6	1249.6	528.9	384.1	381.5	380.9	381.2	377.0	365.8	352.3	352.6
40°	1767.8	1266.9	486.9	375.5	373.5	377.3	375.5	364.2	333.3	309.9	309.2
42.5°	1903.7	1316.3	459.9	364.8	370.6	375.5	367.7	328.8	308.0	292.2	291.6
45°	2063.6	1396.7	446.1	353.5	365.1	370.9	333.6	316.6	299.9	281.0	279.7
47.5°	2244.8	1497.7	442.8	343.0	352.9	356.5	319.2	311.5	292.5	272.0	270.4
50°	2442.0	1617.6	451.5	330.5	335.3	323.1	314.4	307.3	287.7	267.5	265.3
52.5°	2645.8	1749.6	468.8	313.4	317.6	304.1	312.4	306.4	284.8	257.6	255.6
55°	2846.2	1882.5	485.5	293.6	299.6	287.1	307.0	302.5	271.7	240.9	239.2
57.5°	3049.8	2014.8	501.9	275.8	282.3	270.7	298.4	292.2	256.9	225.4	224.8
60°	3261.4	2143.3	509.6	258.8	263.3	255.6	285.2	274.6	240.3	209.7	208.7
62.5°	3459.6	2250.2	497.1	241.8	244.7	241.5	267.8	253.7	223.6	192.1	191.7
65°	3658.4	2313.8	458.6	225.1	225.8	224.2	243.4	231.2	203.9	176.6	174.7
67.5°	3838.5	2349.4	397.3	207.2	205.5	204.9	220.6	206.8	185.0	161.2	159.3
70°	3876.8	2258.9	303.5	185.9	185.9	184.3	195.6	181.4	164.1	144.8	144.2
72.5°	3540.9	1900.1	215.5	161.8	164.4	161.2	170.6	158.7	142.9	130.1	126.2
75°	2855.2	1393.4	156.7	137.1	141.7	136.1	144.8	136.5	123.0	122.7	110.5
77.5°	1961.8	861.6	113.7	113.1	116.2	109.2	119.1	114.6	102.4	97.0	90.9
80°	837.2	343.6	82.8	87.3	87.3	81.0	92.5	93.8	83.1	80.6	80.6
82.5°	166.7	97.6	58.1	60.1	56.5	54.6	65.5	72.6	100.2	111.4	111.7
85°	50.1	36.0	35.1	32.8	28.9	29.2	38.5	72.9	89.9	51.4	44.3
87.5°	13.8	9.0	9.3	7.4	6.1	8.0	13.1	55.2	30.2	12.8	11.0
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)