

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: P962496

Luminaire Tested: **NAV-SB2C-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12737.7 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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



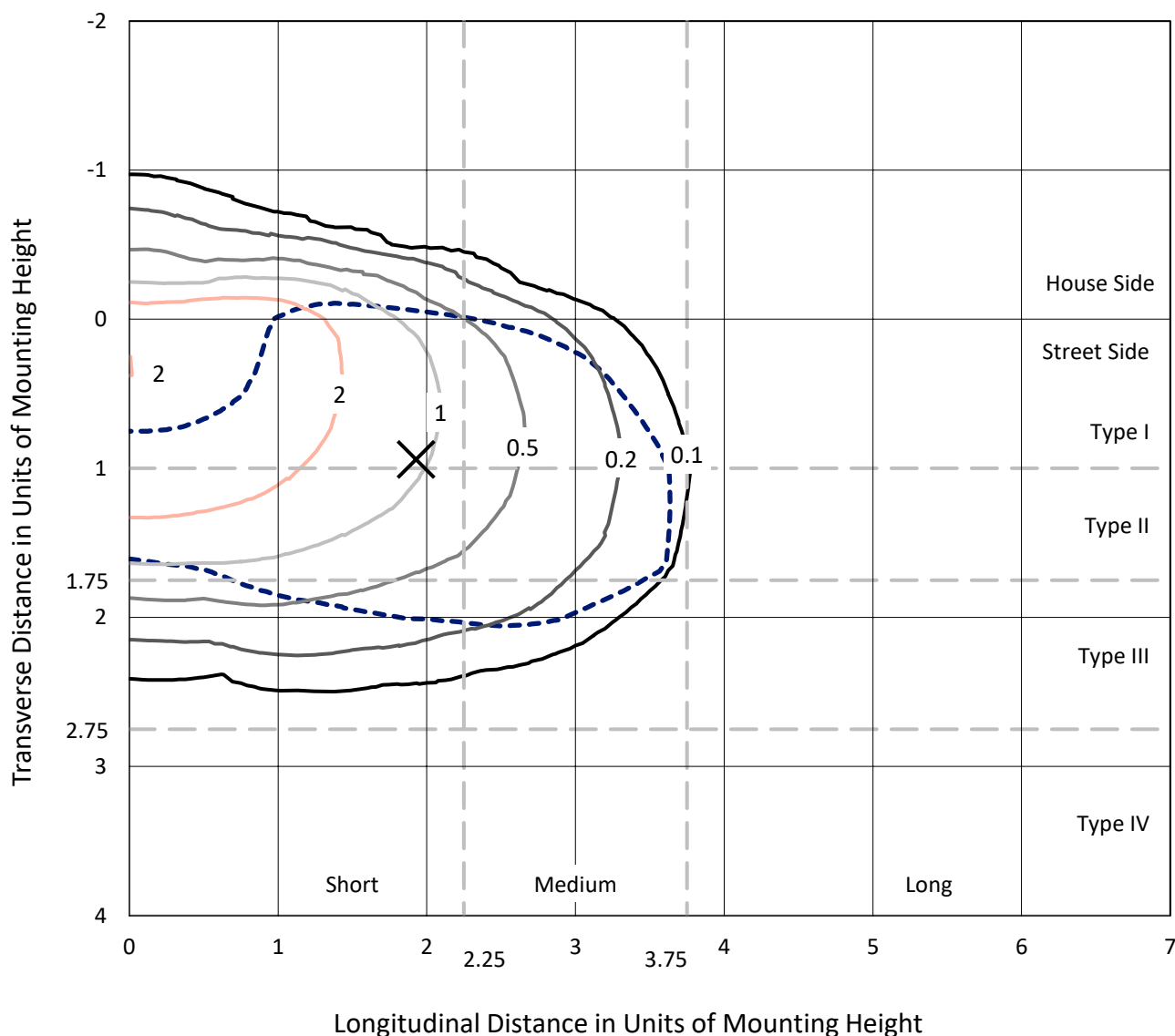
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



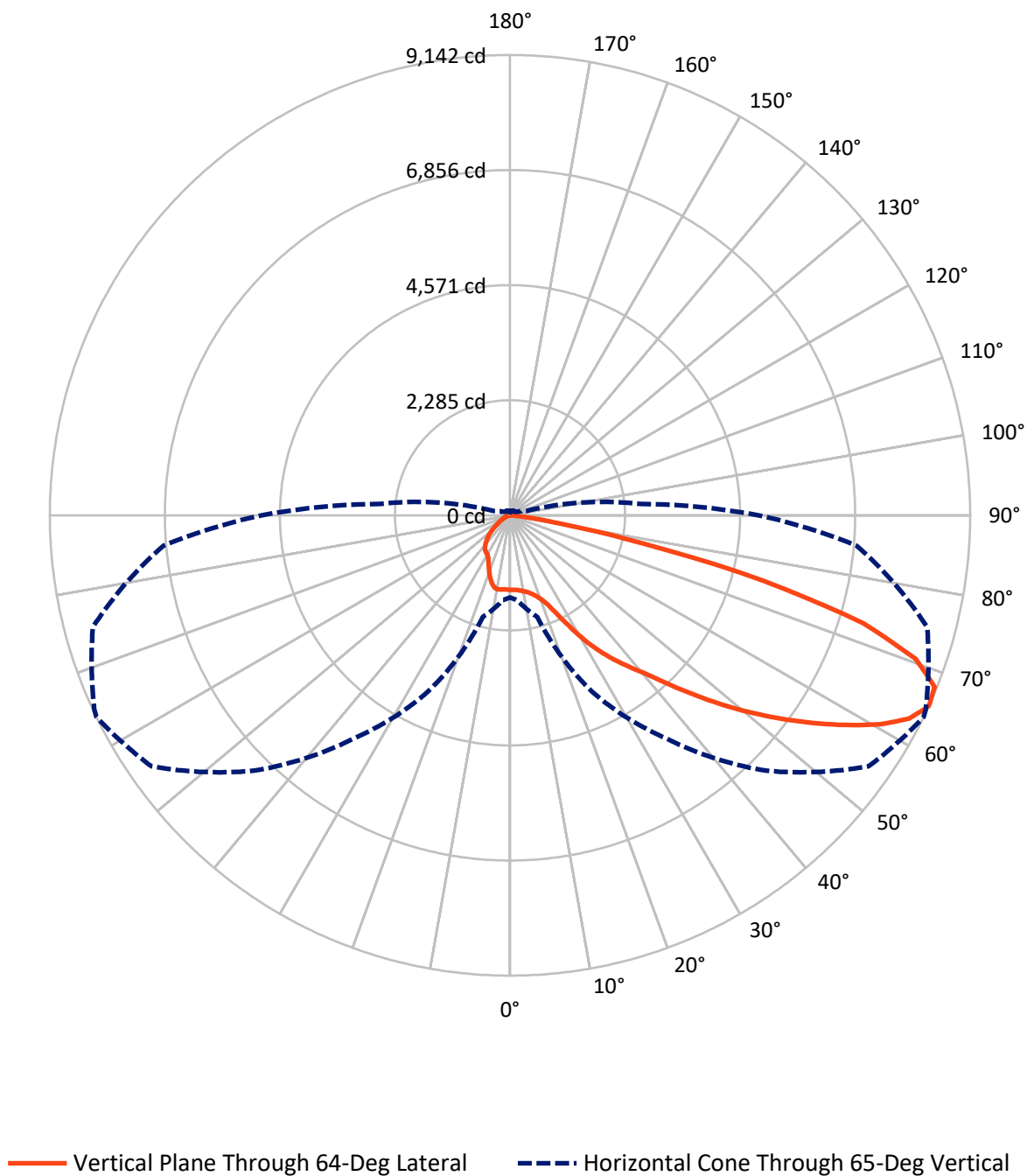
Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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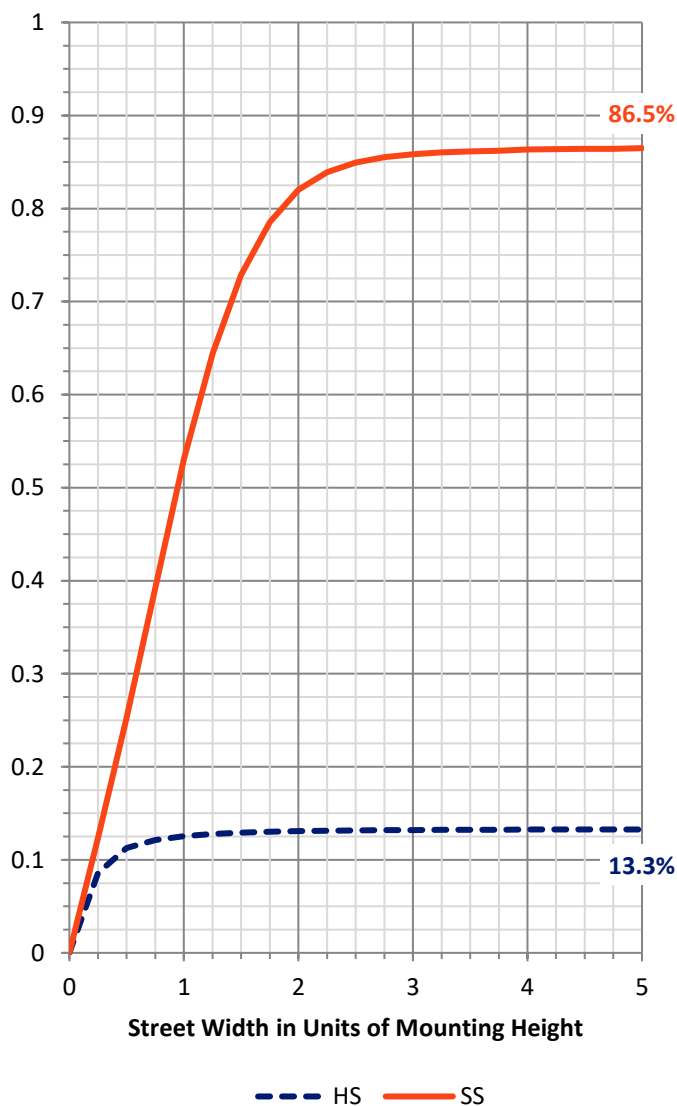
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1703.4	0.0	1703.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11034.3	0.0	11034.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	12737.7	0.0	12737.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	1.1
10°-20°	370.7	2.9
20°-30°	702.5	5.5
30°-40°	1421.5	11.2
40°-50°	2421.6	19.0
50°-60°	3293.2	25.9
60°-70°	3092.5	24.3
70°-80°	1239.0	9.7
80°-90°	60.0	0.5
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°	12737.7	100.0
0°-180°	12737.7	100.0

Coefficient of Utilization



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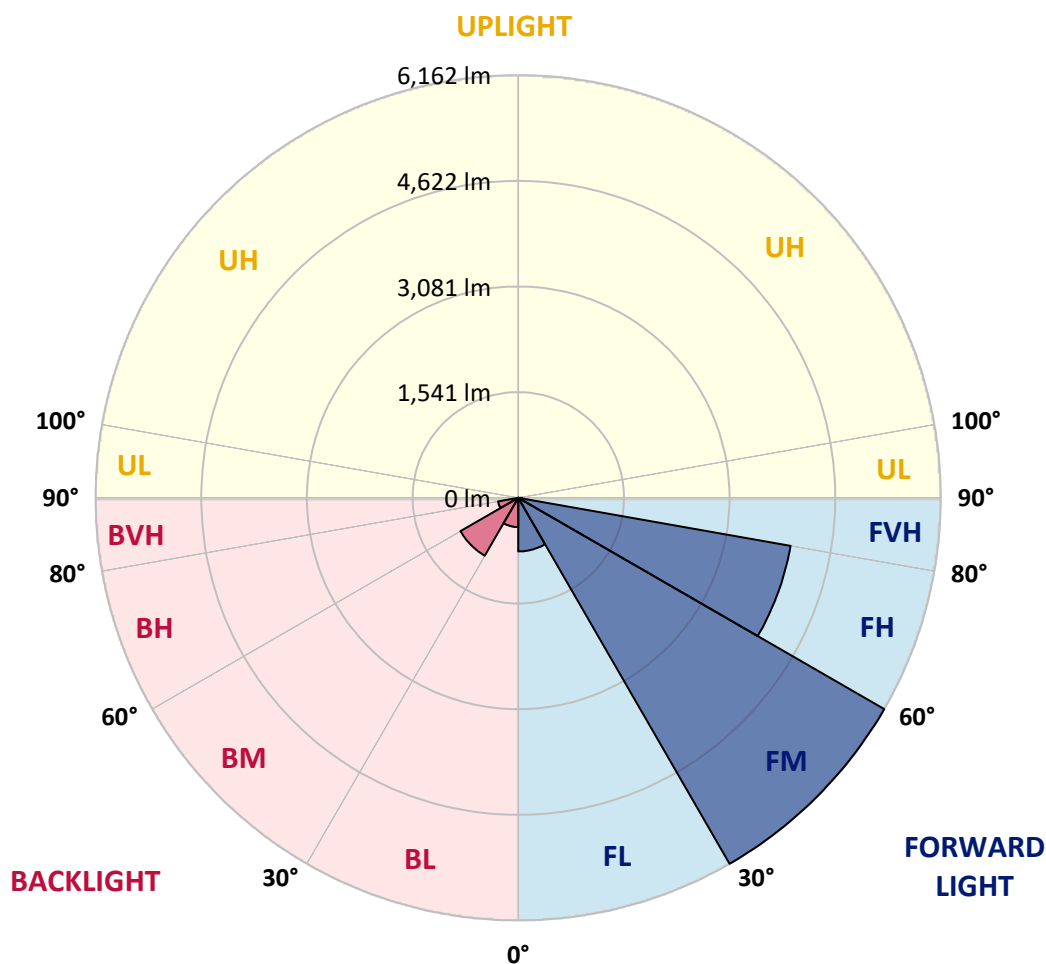
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	782.2	6.1			
FM	(30°-60°)	6162.5	48.4			
FH	(60°-80°)	4032.5	31.7			G2/5000
FVH	(80°-90°)	57.1	0.4			G1/100
BL	(0°-30°)	427.7	3.4	B1/500		
BM	(30°-60°)	973.8	7.6	B1/1000		
BH	(60°-80°)	299.0	2.3	B1/500		G1/500
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5
2.5°	1476.4	1486.7	1484.1	1481.5	1480.7	1482.4	1483.3	1482.4	1482.4	1482.4	1483.3
5°	1448.2	1456.7	1456.7	1462.8	1471.3	1481.5	1489.2	1491.0	1492.6	1495.2	1494.3
7.5°	1394.4	1401.3	1406.4	1426.0	1447.4	1474.7	1497.7	1509.7	1511.4	1520.8	1524.2
10°	1357.7	1366.2	1374.8	1395.2	1426.0	1467.0	1506.2	1535.3	1539.6	1561.8	1572.0
12.5°	1356.0	1364.6	1375.7	1397.8	1433.7	1477.2	1525.1	1566.9	1574.6	1607.1	1628.4
15°	1373.9	1384.2	1394.4	1421.8	1460.2	1513.1	1564.4	1616.4	1624.1	1670.2	1693.3
17.5°	1410.6	1424.3	1432.0	1459.3	1500.3	1559.2	1626.7	1686.4	1693.3	1747.1	1776.1
20°	1483.3	1499.5	1502.0	1524.2	1564.4	1627.5	1707.9	1782.1	1790.7	1852.1	1884.6
22.5°	1633.5	1656.6	1636.1	1647.2	1683.0	1746.2	1833.3	1927.3	1939.2	2009.2	2038.3
25°	1898.2	1930.7	1877.7	1858.9	1874.3	1940.1	2049.4	2168.1	2181.7	2238.1	2252.6
27.5°	2418.3	2376.5	2296.1	2217.6	2171.5	2209.1	2332.0	2478.9	2496.0	2550.6	2533.5
30°	2989.5	2952.8	2844.4	2670.1	2560.9	2554.9	2668.5	2832.4	2852.1	2904.1	2852.1
32.5°	3561.7	3526.6	3408.7	3194.4	3004.9	2911.0	2989.5	3171.4	3181.6	3214.9	3138.1
35°	4124.4	4088.5	3970.6	3751.2	3518.1	3304.6	3289.2	3494.2	3497.6	3532.6	3418.2
37.5°	4690.5	4660.6	4535.1	4319.9	4090.2	3795.6	3653.0	3799.9	3804.2	3838.3	3719.6
40°	5094.4	5107.2	5021.0	4854.4	4657.2	4335.2	4061.2	4125.2	4099.6	4156.8	4086.0
42.5°	5441.1	5466.7	5391.6	5307.9	5193.5	4910.0	4566.7	4555.6	4514.6	4545.4	4471.9
45°	5740.8	5762.1	5694.7	5675.0	5672.5	5473.5	5119.2	5052.5	4995.3	4989.4	4901.4
47.5°	5850.9	5891.9	5921.0	5986.7	6114.8	6031.1	5690.4	5587.1	5523.0	5476.1	5336.9
50°	5892.8	5936.4	6035.4	6226.7	6529.8	6565.6	6259.2	6143.0	6064.4	5979.0	5774.1
52.5°	5836.5	5914.1	6047.4	6369.2	6809.1	6994.3	6804.8	6703.2	6613.5	6474.3	6170.3
55°	5504.2	5581.9	5854.4	6367.6	6948.3	7294.9	7320.6	7275.2	7174.5	6955.0	6490.5
57.5°	4804.1	4919.4	5350.6	6150.7	6945.7	7553.6	7826.1	7858.5	7745.7	7431.6	6742.4
60°	3834.0	3990.3	4516.3	5669.9	6731.3	7693.6	8269.2	8431.4	8311.9	7901.2	6946.5
62.5°	2675.2	2856.3	3354.1	4916.8	6241.2	7592.9	8592.9	8892.6	8802.1	8321.3	7025.0
65°	1631.8	1689.9	2091.2	3869.1	5407.8	7171.1	8692.7	9141.9	9112.0	8578.3	6908.9
67.5°	1087.0	1135.7	1251.0	2653.1	4197.8	6328.2	8453.7	9098.3	9106.9	8536.5	6483.7
70°	655.0	696.8	771.9	1543.0	2720.6	5009.0	7713.3	8543.3	8592.9	7977.2	5677.6
72.5°	269.9	298.0	366.3	699.4	1409.0	3179.0	6142.1	7335.0	7450.3	6707.4	4357.5
75°	152.8	167.4	215.1	351.0	611.4	1481.5	3720.4	5207.1	5377.0	4623.1	2621.4
77.5°	101.6	108.4	139.2	227.1	344.1	505.5	1590.0	2712.9	3037.4	2525.0	1134.9
80°	68.3	74.3	95.6	152.0	223.8	216.9	506.4	1005.0	1236.5	867.6	276.6
82.5°	46.1	46.9	68.3	99.9	141.8	105.1	149.4	312.5	392.8	251.0	105.1
85°	26.4	25.6	50.4	58.0	63.1	43.6	45.3	93.9	123.0	105.9	59.8
87.5°	3.4	5.1	19.7	15.4	8.5	9.4	9.4	16.2	23.9	25.6	12.8
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°	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5
2.5°	1483.3	1482.4	1479.8	1477.2	1471.3	1467.9	1469.5	1467.9	1467.0	1467.9	1471.3
5°	1494.3	1491.8	1484.9	1476.4	1464.4	1450.0	1440.5	1426.9	1414.1	1406.4	1408.0
7.5°	1524.2	1521.6	1512.3	1488.4	1450.0	1389.3	1333.8	1285.1	1248.4	1227.0	1227.9
10°	1572.0	1567.7	1553.3	1500.3	1399.5	1267.2	1157.0	1065.7	1005.9	977.7	975.2
12.5°	1628.4	1623.3	1597.7	1489.2	1303.9	1097.3	945.3	843.7	788.1	763.4	760.9
15°	1695.0	1688.2	1637.7	1436.2	1164.7	909.4	770.2	694.2	658.4	636.1	637.0
17.5°	1777.9	1765.9	1667.7	1356.9	1013.6	766.0	662.7	605.5	573.8	552.5	550.7
20°	1885.4	1865.8	1691.6	1262.1	874.4	675.5	590.1	542.2	518.3	499.6	496.1
22.5°	2035.8	2007.6	1720.7	1159.6	776.2	613.1	536.3	501.2	481.6	460.2	456.8
25°	2221.9	2188.6	1756.4	1064.8	708.8	559.3	497.0	467.9	444.8	420.1	417.6
27.5°	2482.3	2422.5	1799.2	987.1	650.7	513.2	461.1	428.7	402.2	381.7	377.4
30°	2772.6	2674.4	1836.7	940.1	597.8	470.5	414.1	381.7	356.9	342.5	339.9
32.5°	3047.6	2914.4	1861.5	919.6	549.9	421.8	363.0	327.9	309.1	304.8	307.4
35°	3307.2	3131.3	1858.9	900.1	507.2	373.2	312.5	276.6	262.2	264.8	264.8
37.5°	3606.1	3362.7	1841.0	869.3	472.2	328.7	269.0	237.4	224.6	225.4	228.9
40°	3953.5	3629.9	1829.9	811.2	433.8	287.7	233.1	207.5	198.1	194.6	193.8
42.5°	4324.2	3888.6	1831.7	745.5	386.0	251.0	208.4	187.0	178.5	175.9	175.1
45°	4696.4	4135.5	1834.2	677.1	335.6	222.8	190.4	172.5	167.4	164.0	164.0
47.5°	5046.6	4345.5	1786.4	603.7	286.1	201.5	175.9	164.0	159.7	155.4	155.4
50°	5372.7	4485.6	1671.1	518.3	246.8	184.4	164.8	156.3	152.0	147.7	147.7
52.5°	5626.3	4507.7	1480.7	430.4	219.5	171.6	158.0	150.3	145.1	140.9	140.0
55°	5739.1	4368.5	1210.0	348.4	198.1	160.5	151.2	143.5	137.5	133.2	132.3
57.5°	5710.1	4075.7	943.6	280.0	177.6	149.4	142.6	137.5	130.7	123.8	123.0
60°	5567.5	3683.7	711.3	233.1	158.9	137.5	133.2	128.9	119.5	109.3	107.6
62.5°	5320.7	3191.0	507.2	193.0	138.4	123.8	122.1	118.7	105.1	86.2	84.6
65°	4943.3	2592.4	341.5	160.5	118.7	108.4	109.3	103.3	85.4	64.1	62.3
67.5°	4391.6	1895.6	218.6	131.5	99.0	90.5	91.3	87.9	72.6	54.6	52.1
70°	3688.9	1255.2	142.6	99.9	79.4	70.0	75.1	76.0	61.5	44.4	42.7
72.5°	2704.4	741.2	99.9	74.3	58.0	48.7	61.5	63.1	49.5	33.3	31.6
75°	1541.3	351.8	75.1	53.8	35.9	34.1	47.9	47.9	34.1	22.2	20.5
77.5°	647.3	146.9	53.0	35.1	20.5	19.7	32.5	29.9	17.1	10.2	10.2
80°	187.0	65.7	28.2	17.1	8.5	7.7	12.8	9.4	4.3	1.7	1.7
82.5°	73.4	29.0	11.1	6.9	3.4	3.4	1.7	0.0	0.0	0.0	0.0
85°	43.6	12.0	5.1	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	2.6	1.7	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)