

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: P962466

Luminaire Tested: **NAV-SB2C-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-735-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12780.7 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

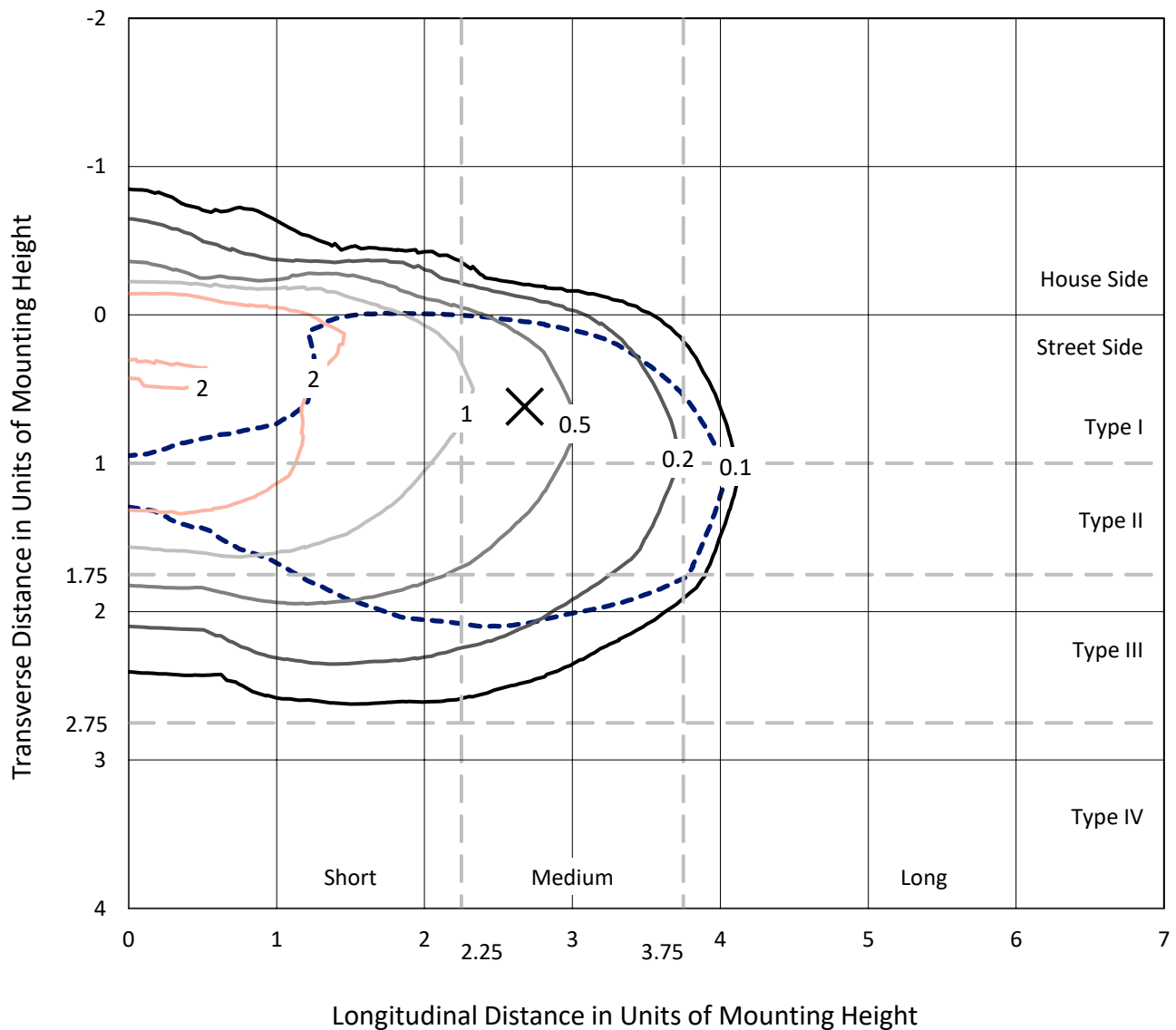


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Iso-Footcandle Lines of Horizontal Illumination

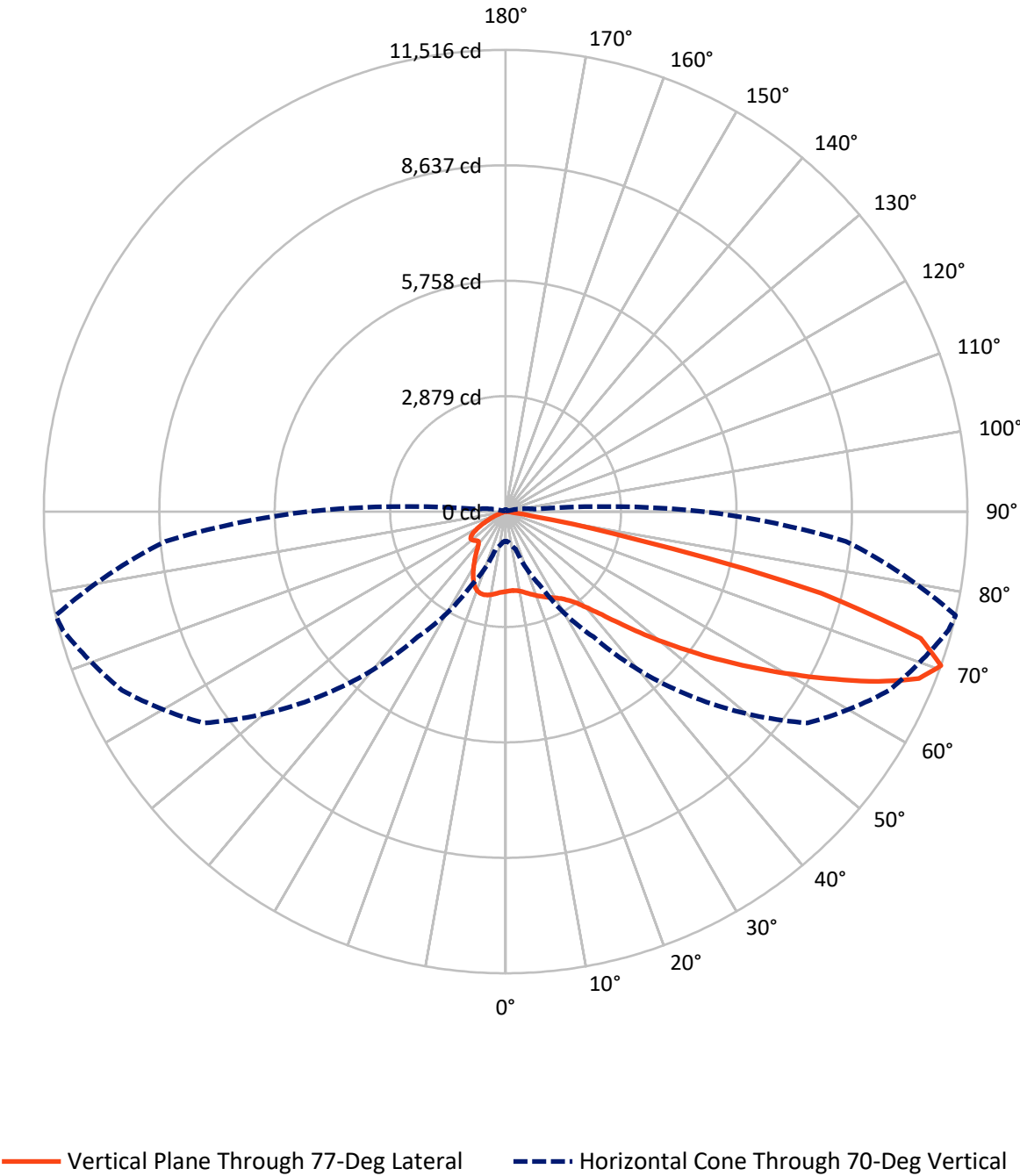
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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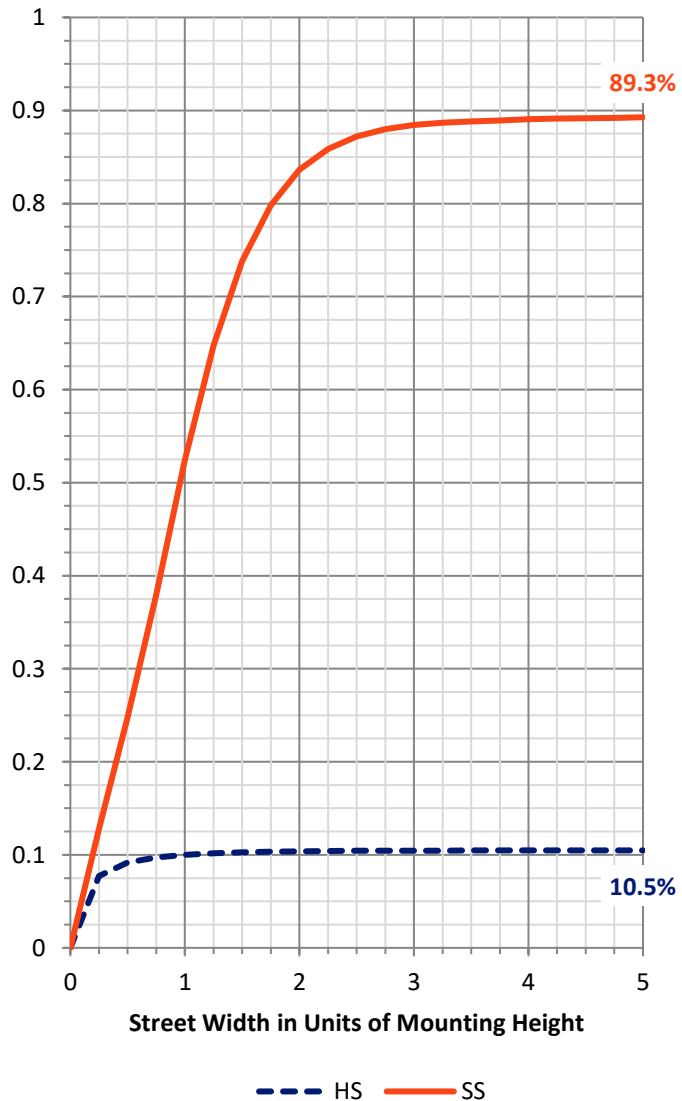
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.3	0.0	1347.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11433.4	0.0	11433.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	12780.7	0.0	12780.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	1.3
10°-20°	407.9	3.2
20°-30°	630.9	4.9
30°-40°	1144.7	9.0
40°-50°	2160.8	16.9
50°-60°	3122.2	24.4
60°-70°	3323.5	26.0
70°-80°	1761.2	13.8
80°-90°	57.8	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°	12780.7	100.0
0°-180°	12780.7	100.0

Coefficient of Utilization



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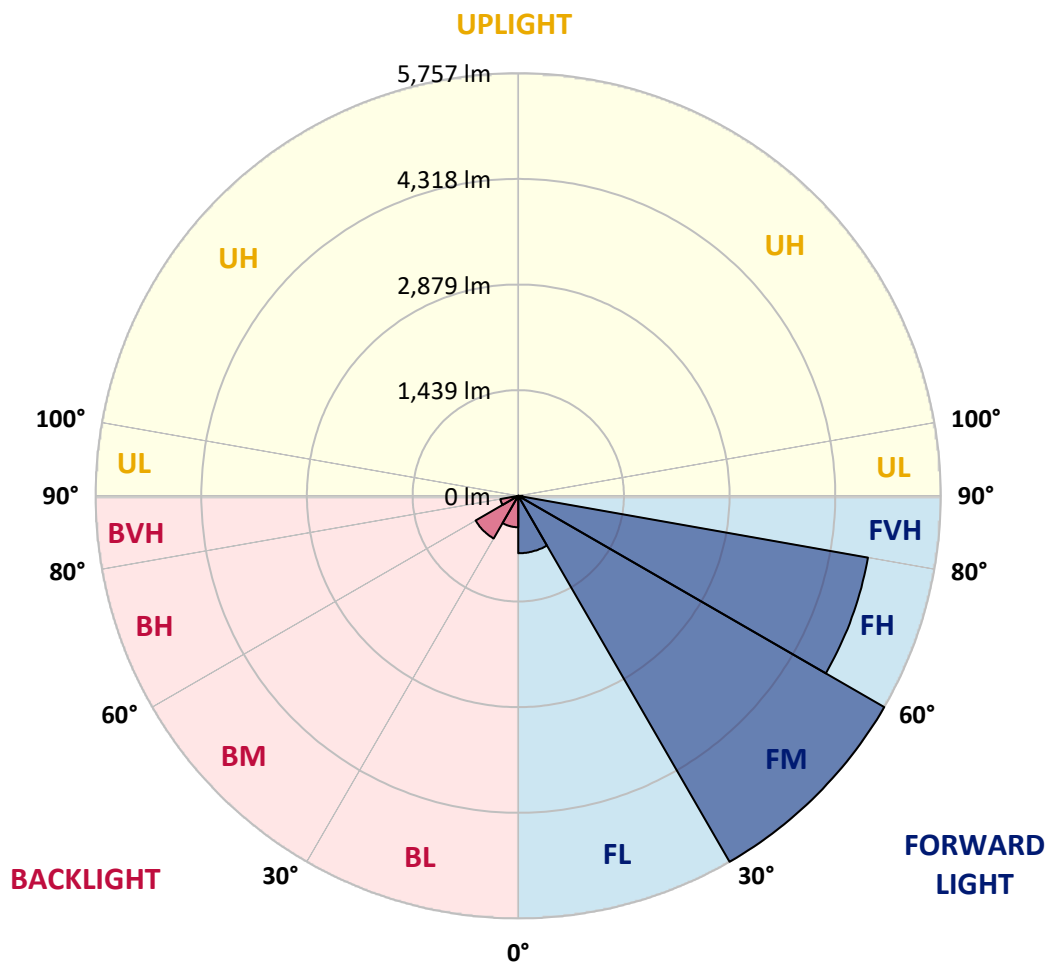
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	782.5	6.1			
FM	(30°-60°)	5757.0	45.0			
FH	(60°-80°)	4837.7	37.9			G2/5000
FVH	(80°-90°)	56.3	0.4			G1/100
BL	(0°-30°)	428.0	3.3	B1/500		
BM	(30°-60°)	670.7	5.2	B1/1000		
BH	(60°-80°)	247.0	1.9	B1/500		G1/500
BVH	(80°-90°)	1.6	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5
2.5°	1871.6	1888.7	1886.2	1897.5	1901.6	1917.7	1933.9	1955.6	1979.9	1979.1	1995.2
5°	1766.0	1782.9	1787.0	1802.3	1821.6	1846.6	1879.7	1923.3	1968.5	1975.8	2008.1
7.5°	1640.8	1658.7	1669.1	1699.8	1735.3	1787.0	1841.0	1904.8	1979.9	1990.3	2052.5
10°	1515.8	1531.9	1545.6	1589.2	1645.7	1722.4	1810.4	1902.4	2003.3	2018.5	2106.6
12.5°	1438.3	1453.7	1468.9	1506.9	1577.1	1670.7	1790.2	1913.7	2042.0	2063.7	2180.0
15°	1410.8	1424.5	1436.6	1470.6	1536.0	1642.5	1786.2	1937.0	2091.2	2120.3	2268.8
17.5°	1414.9	1422.1	1430.2	1456.0	1519.8	1629.5	1793.4	1977.4	2149.3	2175.2	2357.6
20°	1438.3	1442.3	1443.1	1460.8	1517.4	1627.9	1807.9	2016.2	2204.3	2238.9	2445.5
22.5°	1468.1	1469.7	1468.1	1480.2	1532.7	1640.0	1827.3	2063.0	2265.6	2297.8	2534.3
25°	1607.7	1577.1	1538.3	1514.9	1558.5	1663.5	1856.4	2126.0	2332.6	2364.1	2620.7
27.5°	2041.2	1953.2	1814.4	1658.7	1611.8	1697.4	1896.7	2189.7	2400.3	2428.6	2713.5
30°	2745.0	2629.5	2393.9	2042.8	1782.9	1768.3	1949.1	2253.5	2472.2	2502.8	2812.8
32.5°	3450.4	3422.2	3150.1	2664.3	2167.9	1926.6	2036.4	2339.8	2567.4	2591.6	2946.8
35°	4163.9	4106.6	3883.8	3403.6	2761.1	2248.6	2181.6	2452.8	2692.5	2719.9	3142.0
37.5°	4710.3	4675.6	4537.6	4142.1	3464.9	2745.8	2430.2	2628.0	2874.1	2904.7	3392.2
40°	5193.0	5176.8	5130.0	4869.3	4251.9	3396.3	2816.8	2899.1	3125.9	3162.2	3699.0
42.5°	5572.3	5610.2	5636.9	5564.2	5063.0	4138.8	3336.6	3280.1	3477.0	3514.1	4089.6
45°	5960.5	5973.4	6080.8	6185.7	5868.5	4915.3	3922.6	3726.4	3913.7	3959.7	4557.8
47.5°	6209.9	6261.5	6450.4	6635.2	6545.6	5685.3	4552.1	4253.4	4419.7	4506.1	5082.4
50°	6228.5	6326.1	6586.0	6908.1	7038.8	6418.1	5236.5	4854.0	5030.7	5125.9	5642.5
52.5°	5919.4	6071.1	6473.8	6945.2	7305.2	7038.8	5944.4	5454.4	5681.3	5805.5	6223.6
55°	4538.4	4736.9	6051.7	6743.4	7315.6	7509.4	6633.6	6080.0	6406.0	6546.5	6851.5
57.5°	3954.0	4054.1	4757.9	6393.1	7121.1	7699.0	7256.7	6675.6	7194.6	7368.9	7444.8
60°	3289.7	3421.3	3990.3	5820.1	6857.2	7717.6	7807.2	7444.0	8049.3	8245.4	7988.7
62.5°	2235.7	2378.5	2944.3	4835.4	6496.4	7708.7	8258.3	8235.0	8999.3	9209.9	8449.6
65°	1385.0	1474.6	1847.5	3948.4	5991.9	7718.4	8730.5	9195.4	10001.7	10215.6	8806.4
67.5°	1094.4	1135.6	1330.1	3031.5	5122.7	7500.4	9201.8	10098.6	10945.3	11114.7	8915.3
70°	735.2	760.3	967.7	2032.3	3811.2	6494.8	9193.0	10552.2	11431.1	11515.9	8518.3
72.5°	387.4	406.8	565.8	941.1	2301.8	4616.7	7749.1	10009.7	10947.6	10820.1	7281.0
75°	193.7	226.0	381.0	477.9	983.1	2574.7	4812.0	7891.9	8616.7	8122.7	4671.5
77.5°	146.9	177.5	314.8	314.8	342.2	866.8	2037.9	4304.3	3970.1	3305.9	1371.2
80°	93.6	121.1	275.2	238.1	142.9	220.4	531.1	1205.8	843.5	641.6	249.4
82.5°	54.8	79.1	229.2	157.3	79.9	81.5	150.2	256.7	218.7	170.3	76.7
85°	21.8	51.7	157.3	62.1	31.5	20.2	45.2	54.8	45.2	33.9	19.4
87.5°	0.0	12.1	27.5	0.0	2.5	1.6	3.2	4.0	4.0	3.2	6.5
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°	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5
2.5°	2002.4	2004.1	2008.9	2009.7	1998.4	1983.9	1978.2	1975.8	1966.2	1965.3	1967.0
5°	2026.6	2033.9	2026.6	2005.7	1955.6	1885.4	1832.2	1788.5	1749.0	1736.9	1729.7
7.5°	2075.1	2082.4	2060.6	1978.2	1852.3	1712.7	1586.8	1498.0	1418.1	1388.3	1376.2
10°	2144.5	2154.1	2085.6	1919.3	1696.6	1472.2	1259.1	1108.9	991.9	944.3	924.1
12.5°	2231.6	2235.7	2099.3	1829.7	1493.9	1173.5	871.7	711.0	606.9	568.2	556.1
15°	2327.7	2322.0	2100.9	1707.9	1217.9	829.7	569.0	467.3	425.4	412.5	412.5
17.5°	2428.6	2405.2	2068.7	1531.9	915.2	567.4	422.1	397.9	390.6	387.4	386.6
20°	2527.9	2475.4	2009.7	1301.9	657.0	423.7	383.3	376.1	372.1	370.4	368.9
22.5°	2618.3	2528.7	1908.9	1034.7	477.0	374.5	362.4	356.0	348.7	345.4	344.6
25°	2706.2	2559.3	1766.8	785.4	381.8	350.2	340.6	328.5	318.8	314.8	313.1
27.5°	2791.8	2578.7	1589.2	581.1	340.6	327.7	310.0	292.9	285.7	284.1	282.5
30°	2883.0	2585.2	1387.4	433.4	315.6	299.4	273.6	254.2	250.2	251.0	251.0
32.5°	2994.3	2594.9	1184.1	355.2	294.6	265.6	234.8	214.7	211.5	214.7	213.9
35°	3127.6	2614.3	987.9	326.9	276.0	230.8	197.7	180.8	177.5	180.0	179.2
37.5°	3308.4	2645.7	804.7	321.2	260.7	201.8	166.3	152.5	152.5	153.3	152.5
40°	3548.9	2729.7	640.8	317.2	252.7	180.0	140.4	134.8	137.2	138.8	138.8
42.5°	3841.8	2908.0	530.2	312.3	243.7	170.3	127.5	125.2	129.1	130.8	130.8
45°	4170.3	3134.0	491.5	304.3	235.6	176.7	121.9	118.7	123.5	124.3	125.2
47.5°	4510.1	3355.1	486.7	295.4	227.7	186.4	120.2	113.0	118.7	119.4	120.2
50°	4854.0	3499.7	491.5	281.7	214.7	186.4	121.1	107.3	112.2	114.6	115.4
52.5°	5200.2	3565.8	488.3	251.8	192.1	175.2	121.1	102.5	107.3	109.0	109.0
55°	5535.9	3552.9	439.1	207.5	163.1	155.0	117.9	98.5	101.7	102.5	102.5
57.5°	5801.5	3372.9	347.9	161.4	132.3	129.1	107.3	93.6	96.0	95.2	95.2
60°	5940.3	2977.4	248.6	124.3	104.1	101.7	94.4	87.1	88.8	84.8	83.9
62.5°	5941.9	2454.5	166.3	98.5	83.1	80.7	80.7	78.3	76.7	68.6	66.2
65°	5815.2	1874.1	110.6	78.3	67.0	62.9	67.8	67.0	61.3	50.0	48.4
67.5°	5527.9	1228.5	83.9	61.3	51.7	49.2	54.1	56.5	52.5	41.9	41.2
70°	4937.1	715.1	69.4	47.7	38.7	36.3	43.6	48.4	43.6	33.9	32.3
72.5°	4100.9	385.8	56.5	35.5	26.6	24.2	34.7	39.6	34.7	25.0	24.2
75°	2661.0	206.6	43.6	23.4	13.7	15.4	25.8	29.0	24.2	16.1	14.6
77.5°	893.5	91.2	27.5	11.3	6.5	6.5	15.4	17.7	11.3	5.6	4.8
80°	199.4	37.9	11.3	4.8	2.5	2.5	3.2	3.2	1.6	0.0	0.0
82.5°	65.4	15.4	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.0	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	0.8	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)