

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: P962559

Luminaire Tested: **NAV-SB2C-760-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962559
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-760-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 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: 13521.8 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

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



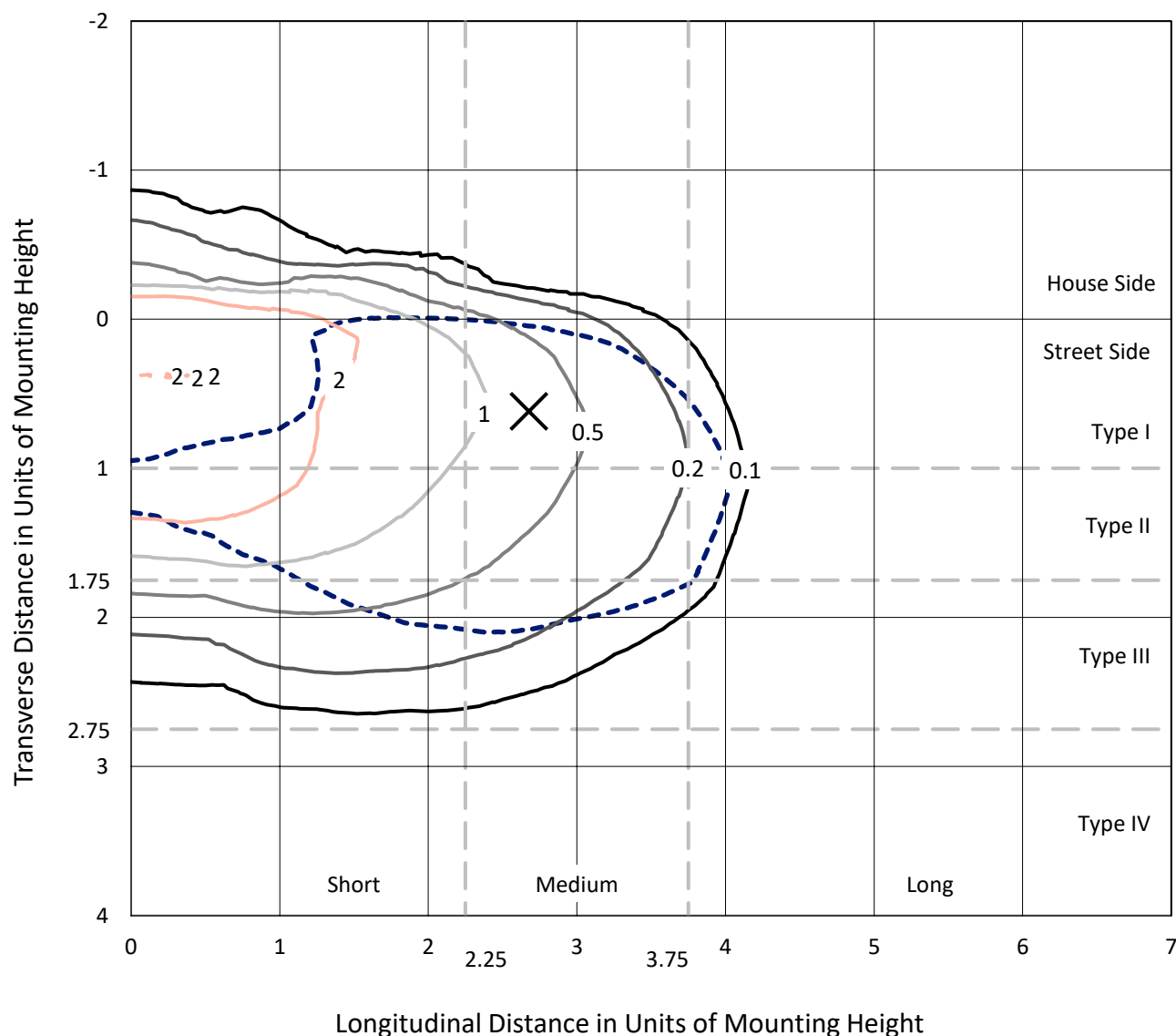
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

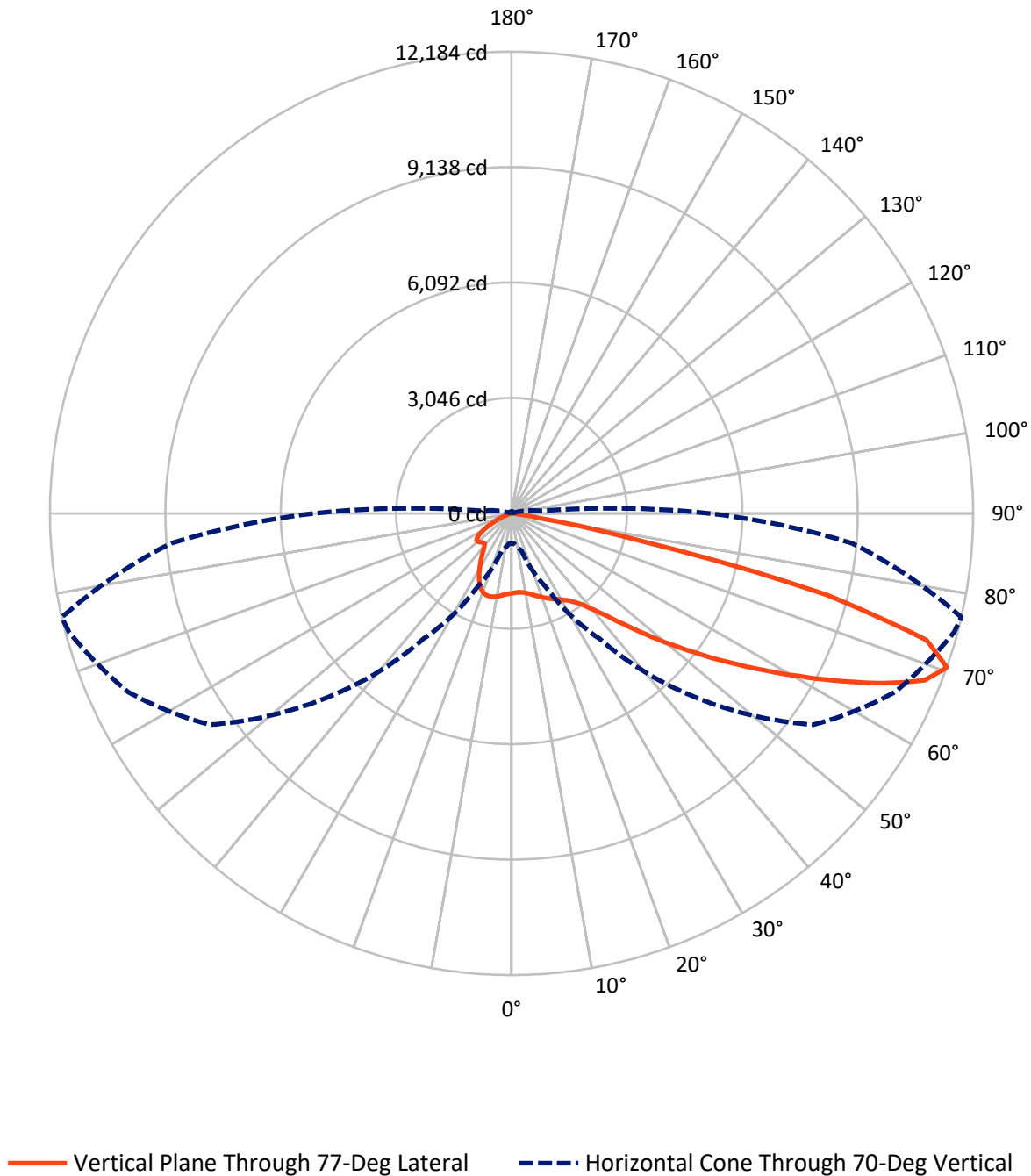
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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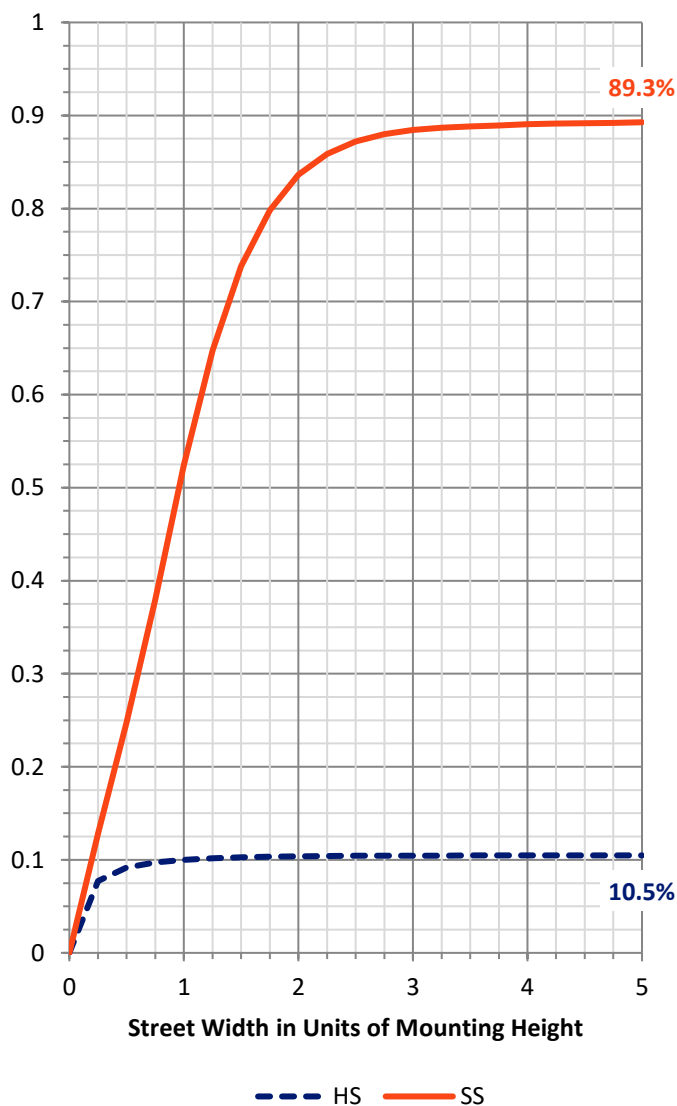
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1425.4	0.0	1425.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12096.4	0.0	12096.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	13521.8	0.0	13521.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	1.3
10°-20°	431.5	3.2
20°-30°	667.4	4.9
30°-40°	1211.1	9.0
40°-50°	2286.1	16.9
50°-60°	3303.2	24.4
60°-70°	3516.2	26.0
70°-80°	1863.3	13.8
80°-90°	61.2	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°	13521.8	100.0
0°-180°	13521.8	100.0

Coefficient of Utilization



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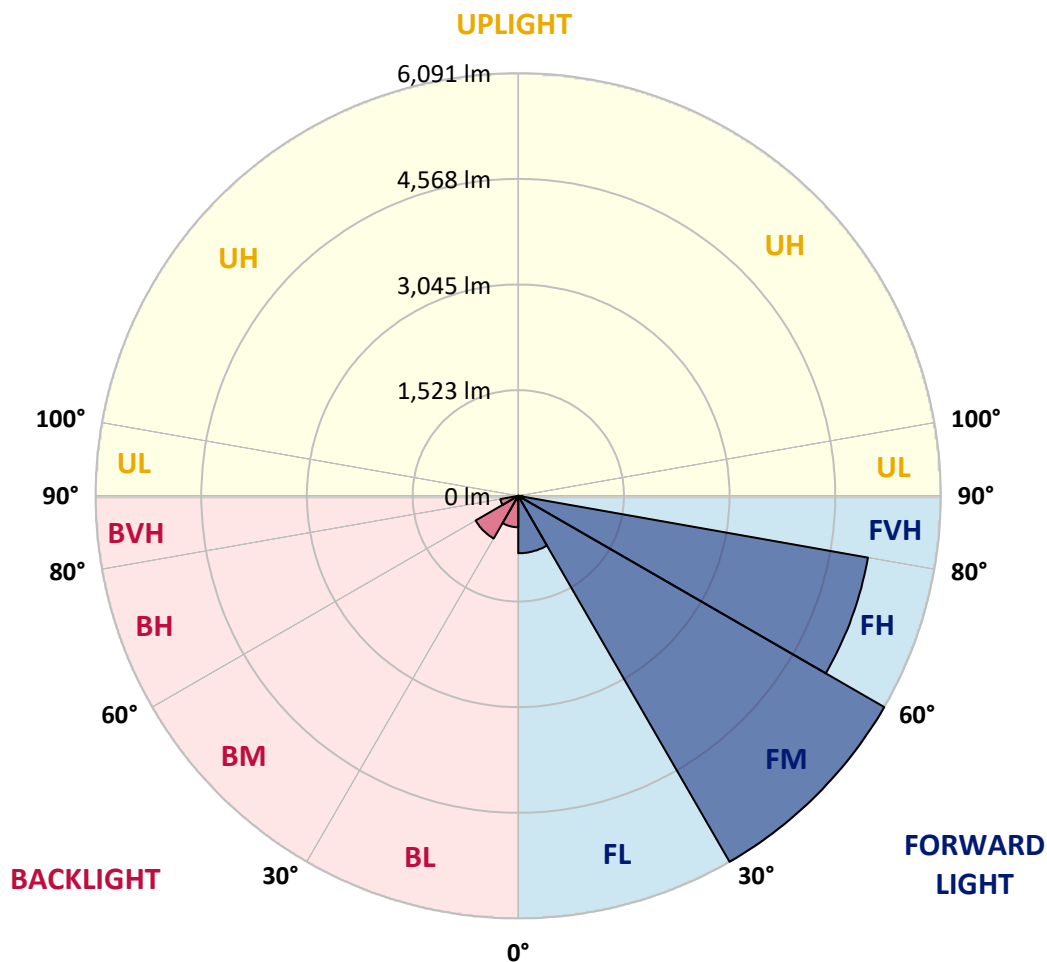
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	827.9	6.1			
FM	(30°-60°)	6090.8	45.0			
FH	(60°-80°)	5118.2	37.9			G3/7500
FVH	(80°-90°)	59.5	0.4			G1/100
BL	(0°-30°)	452.9	3.3	B1/500		
BM	(30°-60°)	709.6	5.2	B1/1000		
BH	(60°-80°)	261.3	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1
2.5°	1980.2	1998.1	1995.6	2007.6	2011.8	2028.9	2046.0	2069.1	2094.7	2093.8	2110.9
5°	1868.4	1886.3	1890.5	1906.8	1927.3	1953.8	1988.7	2034.8	2082.7	2090.4	2124.5
7.5°	1736.0	1754.8	1765.9	1798.4	1835.9	1890.5	1947.8	2015.3	2094.7	2105.8	2171.5
10°	1603.6	1620.7	1635.3	1681.3	1741.2	1822.2	1915.3	2012.7	2119.4	2135.6	2228.7
12.5°	1521.7	1537.9	1554.1	1594.3	1668.5	1767.6	1894.0	2024.6	2160.4	2183.5	2306.5
15°	1492.6	1507.2	1520.0	1555.8	1625.0	1737.7	1889.7	2049.4	2212.5	2243.2	2400.3
17.5°	1496.9	1504.6	1513.1	1540.5	1607.9	1724.0	1897.4	2092.1	2274.0	2301.3	2494.2
20°	1521.7	1525.9	1526.8	1545.6	1605.4	1722.3	1912.8	2133.0	2332.0	2368.8	2587.3
22.5°	1553.3	1554.9	1553.3	1566.1	1621.6	1735.1	1933.3	2182.6	2397.0	2431.1	2681.3
25°	1701.0	1668.5	1627.6	1602.8	1648.9	1759.9	1964.0	2249.2	2467.8	2501.1	2772.6
27.5°	2159.6	2066.5	1919.6	1754.8	1705.3	1795.8	2006.6	2316.7	2539.5	2569.4	2870.8
30°	2904.1	2782.1	2532.7	2161.2	1886.3	1870.9	2062.2	2384.1	2615.5	2648.0	2975.9
32.5°	3650.4	3620.6	3332.8	2818.7	2293.6	2038.3	2154.4	2475.5	2716.2	2741.9	3117.6
35°	4405.3	4344.7	4109.0	3600.9	2921.2	2379.0	2308.1	2595.0	2848.7	2877.7	3324.3
37.5°	4983.4	4946.6	4800.7	4382.3	3665.8	2905.0	2571.1	2780.3	3040.8	3073.3	3588.9
40°	5494.1	5477.0	5427.5	5151.6	4498.4	3593.2	2980.2	3067.2	3307.2	3345.6	3913.4
42.5°	5895.4	5935.6	5963.7	5886.9	5356.5	4378.8	3530.1	3470.2	3678.6	3717.9	4326.7
45°	6306.1	6319.7	6433.3	6544.3	6208.7	5200.3	4150.0	3942.5	4140.6	4189.3	4822.0
47.5°	6569.9	6624.7	6824.4	7020.0	6925.2	6014.9	4816.1	4500.1	4676.0	4767.4	5377.0
50°	6589.6	6692.9	6968.0	7308.7	7446.9	6790.3	5540.1	5135.5	5322.4	5423.2	5969.7
52.5°	6262.5	6423.1	6849.3	7347.9	7728.7	7446.9	6289.1	5770.7	6010.7	6142.2	6584.5
55°	4801.5	5011.6	6402.7	7134.4	7739.9	7944.8	7018.3	6432.5	6777.5	6926.0	7248.8
57.5°	4183.3	4289.2	5033.8	6763.8	7534.1	8145.5	7677.5	7062.7	7611.8	7796.2	7876.5
60°	3480.5	3619.7	4221.8	6157.6	7254.8	8165.0	8259.9	7875.6	8516.0	8723.6	8452.0
62.5°	2365.3	2516.5	3115.1	5115.8	6873.1	8155.7	8737.2	8712.4	9521.1	9744.0	8939.5
65°	1465.3	1560.0	1954.6	4177.3	6339.4	8166.0	9236.8	9728.6	10581.7	10807.9	9317.0
67.5°	1157.9	1201.4	1407.2	3207.3	5419.8	7935.3	9735.4	10684.1	11579.8	11759.2	9432.3
70°	777.9	804.4	1023.9	2150.1	4032.1	6871.4	9726.0	11164.0	12093.9	12183.6	9012.2
72.5°	409.9	430.4	598.6	995.7	2435.4	4884.3	8198.4	10590.2	11582.4	11447.5	7703.1
75°	204.9	239.1	403.0	505.5	1040.1	2723.9	5091.0	8349.5	9116.3	8593.7	4942.4
77.5°	155.4	187.9	333.0	333.0	362.0	917.1	2156.1	4553.9	4200.3	3497.6	1450.8
80°	99.0	128.1	291.2	251.9	151.2	233.1	561.9	1275.7	892.4	678.9	263.8
82.5°	58.0	83.6	242.5	166.6	84.6	86.2	158.9	271.5	231.4	180.2	81.1
85°	23.1	54.6	166.6	65.7	33.3	21.3	47.9	58.0	47.9	35.9	20.5
87.5°	0.0	12.8	29.0	0.0	2.6	1.7	3.4	4.3	4.3	3.4	6.9
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°	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1	2109.1
2.5°	2118.6	2120.2	2125.3	2126.3	2114.3	2098.9	2092.9	2090.4	2080.1	2079.3	2081.0
5°	2144.2	2151.9	2144.2	2122.0	2069.1	1994.8	1938.4	1892.3	1850.4	1837.6	1829.9
7.5°	2195.4	2203.1	2180.1	2092.9	1959.7	1812.0	1678.7	1584.9	1500.3	1468.7	1455.9
10°	2268.8	2279.1	2206.5	2030.6	1794.9	1557.5	1332.1	1173.3	1049.5	999.1	977.7
12.5°	2361.1	2365.3	2221.0	1935.8	1580.6	1241.6	922.2	752.2	642.2	601.2	588.3
15°	2462.7	2456.7	2222.7	1806.9	1288.5	877.8	602.0	494.5	450.0	436.3	436.3
17.5°	2569.4	2544.7	2188.6	1620.7	968.3	600.3	446.6	421.0	413.3	409.9	409.0
20°	2674.4	2619.0	2126.3	1377.4	695.1	448.3	405.6	397.9	393.7	392.0	390.2
22.5°	2770.1	2675.2	2019.5	1094.7	504.7	396.3	383.5	376.6	368.9	365.5	364.6
25°	2863.1	2707.7	1869.2	830.9	403.8	370.6	360.4	347.6	337.3	333.0	331.3
27.5°	2953.6	2728.2	1681.3	614.8	360.4	346.7	327.9	310.0	302.3	300.5	298.9
30°	3050.2	2735.1	1467.9	458.6	333.8	316.8	289.5	269.0	264.8	265.6	265.6
32.5°	3168.0	2745.4	1252.7	375.8	311.7	281.0	248.5	227.1	223.8	227.1	226.3
35°	3308.9	2765.9	1045.2	345.8	292.0	244.3	209.2	191.3	187.9	190.4	189.5
37.5°	3500.2	2799.1	851.4	339.9	275.8	213.5	175.9	161.4	161.4	162.3	161.4
40°	3754.7	2887.9	678.0	335.6	267.3	190.4	148.6	142.6	145.1	146.9	146.9
42.5°	4064.6	3076.6	561.0	330.5	257.9	180.2	134.9	132.3	136.6	138.4	138.4
45°	4412.1	3315.8	520.0	322.0	249.4	187.0	128.9	125.6	130.7	131.5	132.3
47.5°	4771.7	3549.7	514.9	312.5	240.8	197.2	127.2	119.5	125.6	126.4	127.2
50°	5135.5	3702.5	520.0	298.0	227.1	197.2	128.1	113.6	118.7	121.3	122.1
52.5°	5501.8	3772.6	516.6	266.4	203.3	185.3	128.1	108.4	113.6	115.3	115.3
55°	5857.0	3758.9	464.5	219.5	172.5	164.0	124.6	104.1	107.6	108.4	108.4
57.5°	6137.9	3568.5	368.1	170.8	140.0	136.6	113.6	99.0	101.6	100.8	100.8
60°	6284.8	3150.0	263.0	131.5	110.2	107.6	99.9	92.2	93.9	89.7	88.8
62.5°	6286.5	2596.7	175.9	104.1	87.9	85.4	85.4	82.8	81.1	72.6	70.0
65°	6152.5	1982.8	117.0	82.8	70.8	66.6	71.8	70.8	64.9	53.0	51.2
67.5°	5848.4	1299.7	88.8	64.9	54.6	52.1	57.2	59.8	55.6	44.4	43.6
70°	5223.4	756.6	73.4	50.4	41.0	38.4	46.1	51.2	46.1	35.9	34.1
72.5°	4338.7	408.2	59.8	37.6	28.2	25.6	36.7	41.8	36.7	26.4	25.6
75°	2815.4	218.6	46.1	24.8	14.6	16.2	27.4	30.7	25.6	17.1	15.4
77.5°	945.3	96.5	29.0	12.0	6.9	6.9	16.2	18.8	12.0	5.9	5.1
80°	210.9	40.2	12.0	5.1	2.6	2.6	3.4	3.4	1.7	0.0	0.0
82.5°	69.2	16.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.4	5.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	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)