

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: P962614

Luminaire Tested: **NAV-SB2C-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-830-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10072.7 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - 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



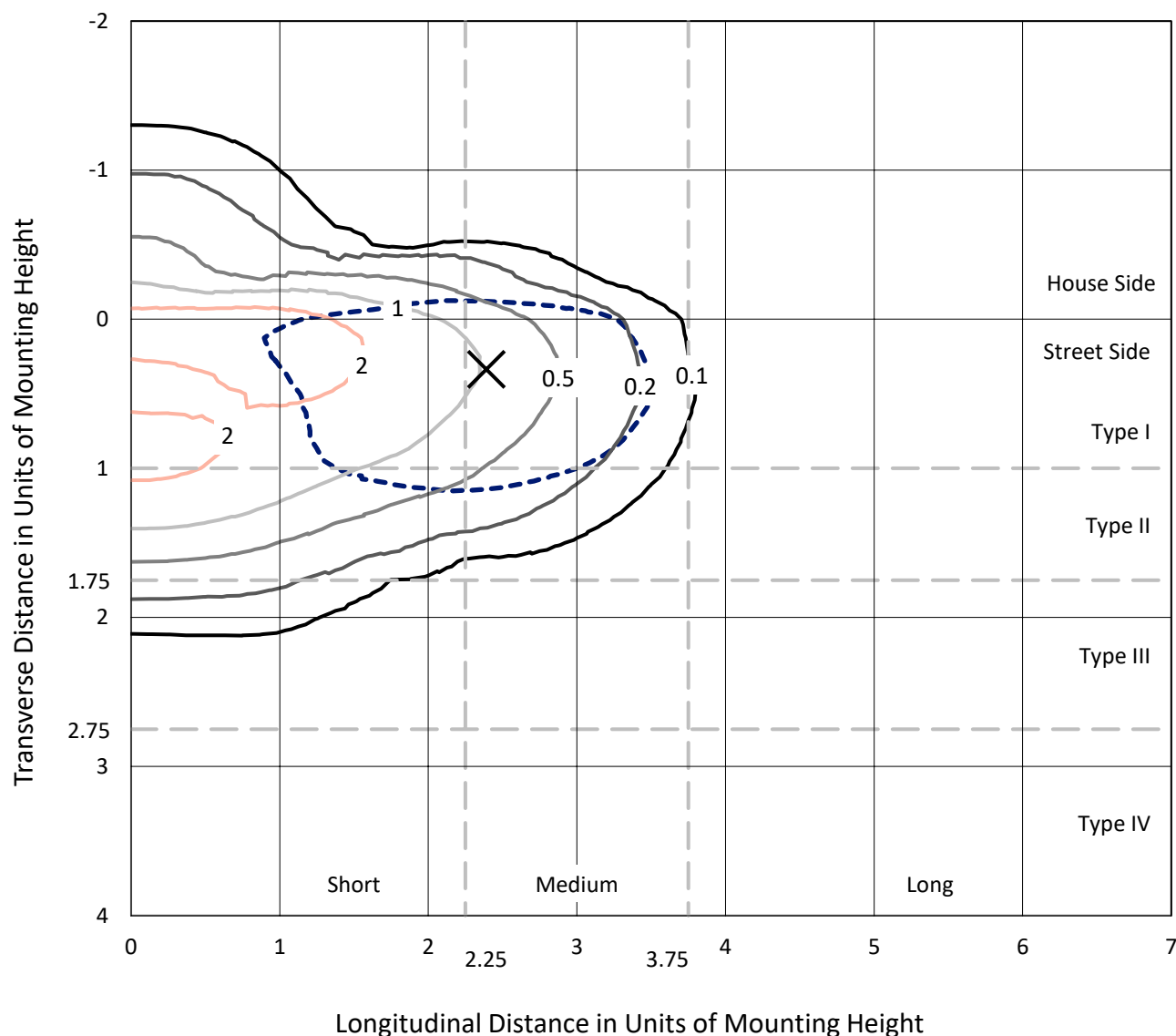
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

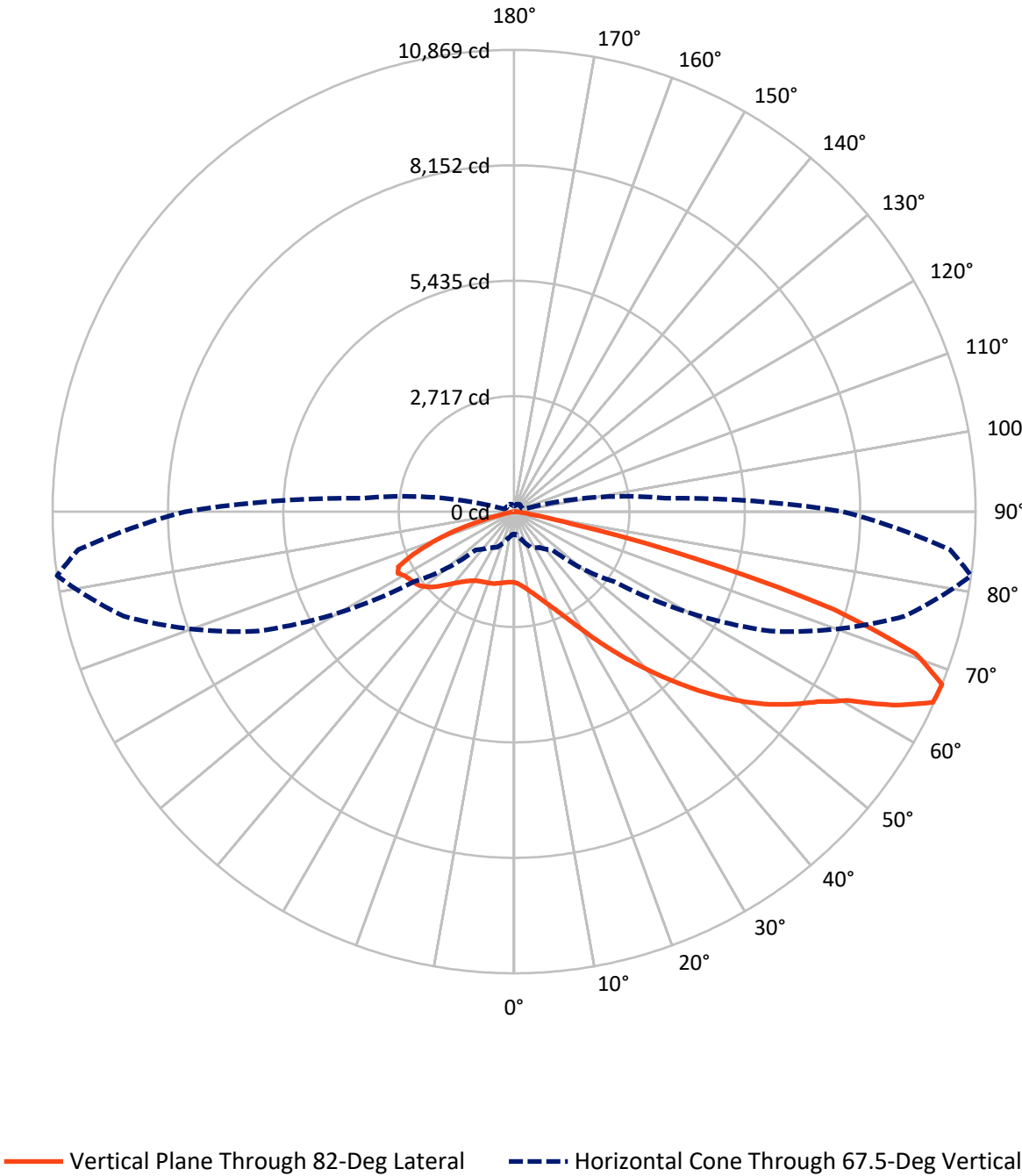
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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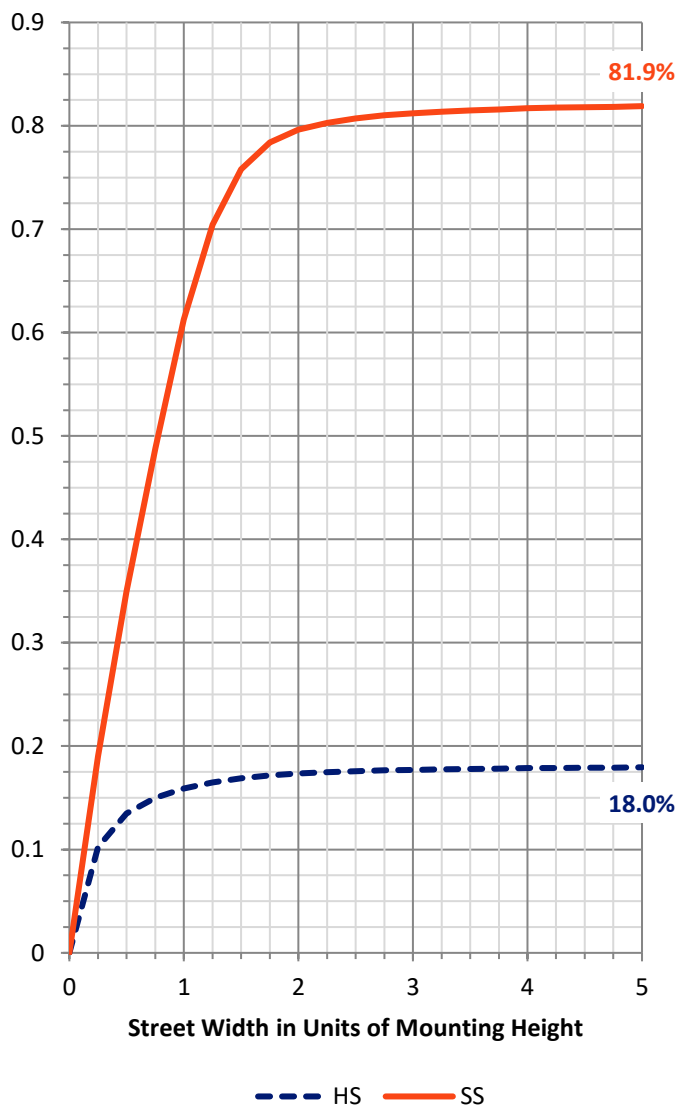
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1824.6	0.0	1824.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8248.1	0.0	8248.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	10072.7	0.0	10072.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.5
10°-20°	386.3	3.8
20°-30°	618.8	6.1
30°-40°	1094.2	10.9
40°-50°	1917.1	19.0
50°-60°	2556.9	25.4
60°-70°	2380.4	23.6
70°-80°	913.6	9.1
80°-90°	56.7	0.6
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°	10072.7	100.0
0°-180°	10072.7	100.0

Coefficient of Utilization



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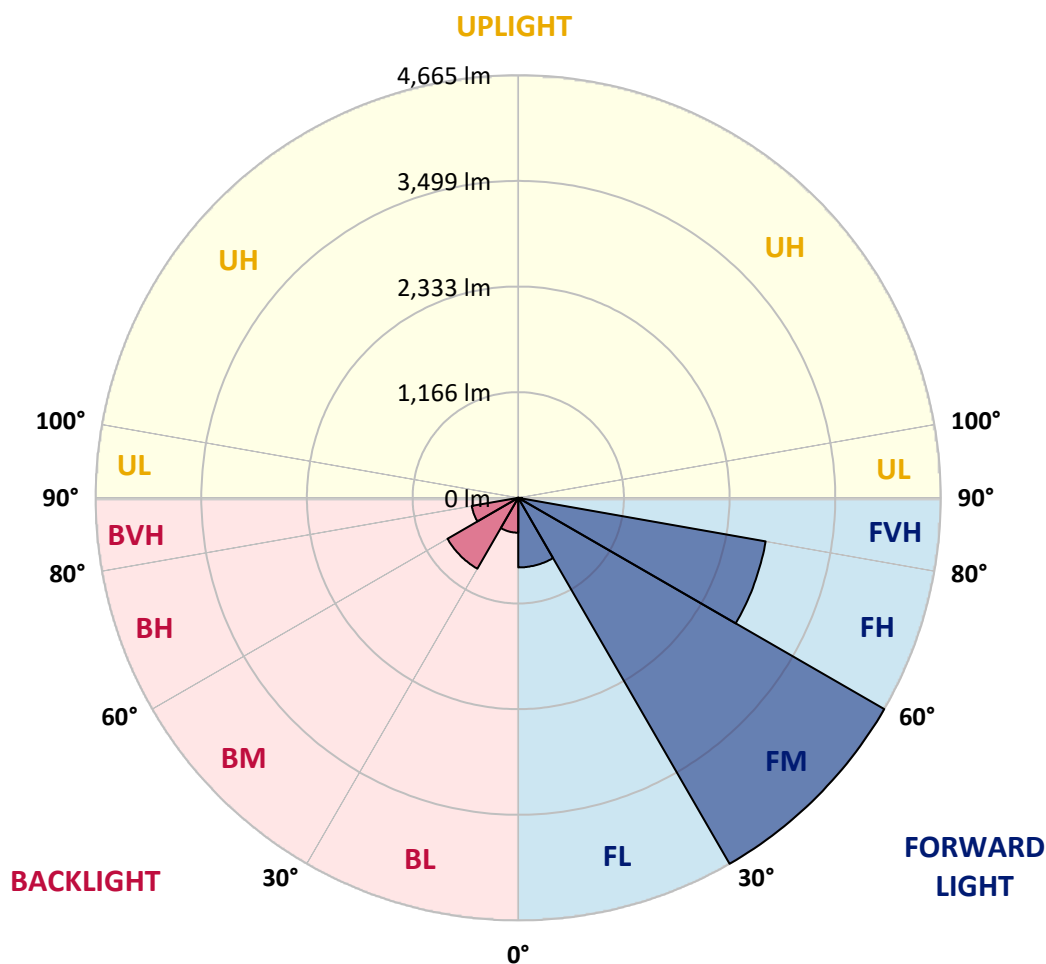
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.4	7.6			
FM	(30°-60°)	4665.3	46.3			
FH	(60°-80°)	2773.2	27.5			G2/5000
FVH	(80°-90°)	41.3	0.4			G1/100
BL	(0°-30°)	385.3	3.8	B1/500		
BM	(30°-60°)	903.0	9.0	B1/1000		
BH	(60°-80°)	520.8	5.2	B2/1000		G2/1000
BVH	(80°-90°)	15.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7
2.5°	1763.7	1773.9	1768.0	1765.2	1760.0	1752.9	1747.0	1728.9	1710.0	1697.7	1693.4
5°	1799.3	1809.4	1808.7	1811.6	1815.2	1817.3	1815.9	1795.6	1768.7	1747.7	1735.4
7.5°	1768.7	1780.4	1789.9	1804.3	1829.7	1856.5	1869.6	1865.2	1837.7	1808.7	1793.4
10°	1682.4	1694.8	1717.3	1751.4	1805.0	1863.0	1911.6	1934.2	1916.7	1884.8	1863.8
12.5°	1524.4	1536.7	1581.0	1655.0	1744.9	1845.6	1938.5	1998.6	2003.1	1971.1	1946.5
15°	1346.7	1359.0	1406.2	1499.0	1636.1	1797.7	1952.9	2066.8	2105.2	2077.7	2048.0
17.5°	1236.5	1247.3	1282.9	1357.6	1500.5	1702.0	1947.9	2139.4	2227.1	2205.4	2169.8
20°	1203.1	1212.6	1229.2	1281.5	1400.4	1602.7	1914.6	2207.5	2358.4	2346.0	2306.1
22.5°	1238.6	1247.3	1252.4	1275.6	1350.3	1537.4	1872.5	2277.1	2510.6	2512.1	2463.5
25°	1320.6	1329.3	1323.5	1338.0	1370.6	1517.1	1856.5	2359.1	2702.1	2718.1	2663.0
27.5°	1455.5	1456.2	1442.5	1441.7	1446.8	1547.5	1873.2	2446.9	2943.6	2973.3	2905.2
30°	1726.0	1715.1	1662.1	1604.8	1578.8	1639.0	1919.6	2550.5	3228.6	3281.5	3196.0
32.5°	2143.0	2127.1	2029.8	1892.8	1755.0	1786.2	2003.1	2668.8	3539.0	3634.8	3530.3
35°	2595.5	2591.2	2489.6	2285.9	2045.1	1995.8	2138.7	2824.0	3877.7	4030.0	3906.0
37.5°	3016.2	3013.9	2955.9	2715.9	2422.9	2288.0	2356.2	3027.0	4240.3	4460.7	4314.2
40°	3400.5	3407.0	3349.0	3134.3	2839.1	2663.0	2652.1	3278.0	4643.5	4929.9	4755.9
42.5°	3732.6	3739.9	3681.2	3522.3	3250.4	3077.8	3015.4	3585.4	5037.3	5433.9	5228.0
45°	3958.1	4003.1	3994.4	3867.5	3672.5	3493.3	3452.0	3971.3	5486.2	5968.5	5727.0
47.5°	4022.0	4063.3	4128.6	4146.0	4027.1	3850.8	3900.1	4436.1	5940.2	6503.6	6228.8
50°	3864.7	3903.1	4038.7	4219.2	4301.9	4247.5	4336.1	4934.3	6405.0	7037.4	6721.2
52.5°	3554.3	3593.4	3764.5	4050.3	4387.5	4558.7	4773.3	5425.3	6855.4	7542.9	7187.5
55°	3105.3	3146.6	3366.4	3689.9	4224.3	4687.0	5138.1	5915.5	7268.1	7997.6	7608.2
57.5°	2494.7	2525.2	2753.6	3206.1	3813.8	4559.4	5407.2	6450.7	7656.7	8444.4	8025.1
60°	1626.0	1652.7	1918.2	2422.9	3133.6	4133.0	5460.8	7047.6	8173.0	9025.2	8587.1
62.5°	1081.3	1099.4	1256.8	1627.4	2206.8	3314.2	5146.8	7524.0	8930.2	10036.2	9550.9
65°	741.9	760.0	917.4	1175.6	1425.8	2192.3	4243.9	7461.0	9616.2	10839.0	10265.3
67.5°	529.4	544.6	678.0	921.8	1032.0	1273.5	2876.9	6654.5	9517.6	10869.4	10303.7
70°	379.2	388.0	498.3	717.9	820.2	765.1	1599.8	5089.5	8333.4	10036.9	9519.1
72.5°	265.5	268.3	345.9	546.8	660.6	558.4	761.5	3393.3	6302.7	7877.9	7379.7
75°	179.9	183.5	232.8	401.1	530.1	426.4	403.2	1819.6	3700.0	4360.7	3908.8
77.5°	110.2	111.7	150.2	274.1	396.7	324.9	259.6	770.9	1431.5	1405.5	1198.0
80°	62.3	62.3	95.7	170.5	270.5	209.6	182.0	327.8	453.3	398.1	351.0
82.5°	34.8	35.6	69.6	105.9	179.2	124.0	100.0	151.6	195.8	173.3	150.9
85°	14.6	16.0	42.7	50.0	85.6	61.6	40.6	63.9	72.6	64.6	47.2
87.5°	1.4	2.2	13.0	9.4	10.1	12.3	5.8	12.3	10.1	10.1	7.3
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°	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7
2.5°	1679.6	1668.7	1641.1	1609.2	1567.1	1546.8	1519.4	1500.5	1484.5	1485.9	1471.5
5°	1712.3	1684.7	1623.0	1546.1	1450.4	1382.2	1309.7	1259.7	1219.0	1210.3	1190.7
7.5°	1757.2	1713.7	1605.6	1467.1	1305.3	1182.8	1073.3	1003.0	952.9	937.0	921.0
10°	1815.2	1752.1	1583.1	1367.8	1135.0	979.1	861.5	806.5	772.3	760.8	752.0
12.5°	1882.6	1796.3	1553.4	1246.6	959.4	809.3	734.6	707.0	696.2	692.6	690.4
15°	1967.5	1851.5	1508.4	1103.0	810.8	705.6	673.7	670.0	671.6	670.0	669.3
17.5°	2068.2	1911.6	1435.2	955.1	710.7	652.7	641.0	644.0	647.6	646.9	645.4
20°	2178.5	1971.1	1341.6	823.8	642.6	615.0	608.4	611.3	614.3	612.8	612.0
22.5°	2304.0	2034.9	1237.9	721.6	596.9	580.2	572.9	573.6	573.6	570.7	569.3
25°	2454.1	2105.2	1129.1	649.0	562.0	549.0	540.3	537.4	533.0	524.3	522.9
27.5°	2633.2	2180.0	1024.7	598.3	534.4	522.1	512.0	504.7	493.8	479.4	478.0
30°	2834.8	2270.6	936.2	566.4	512.7	500.4	488.8	478.0	462.0	443.8	442.4
32.5°	3072.0	2367.8	871.7	545.4	493.1	480.1	466.3	453.3	435.8	417.7	418.4
35°	3354.8	2485.3	833.9	530.8	478.0	460.5	445.3	430.8	417.7	401.8	400.4
37.5°	3661.6	2610.1	822.4	523.6	467.7	441.0	423.5	413.4	411.9	402.5	401.8
40°	3997.3	2758.0	831.1	519.3	456.8	422.1	403.2	401.1	404.7	388.0	388.7
42.5°	4352.7	2933.4	845.6	514.1	441.7	403.2	385.1	385.1	382.2	359.0	359.0
45°	4737.0	3135.8	860.1	501.8	423.5	384.4	370.5	365.5	353.2	330.7	329.9
47.5°	5124.3	3341.7	870.9	479.4	401.8	368.4	356.1	344.5	326.4	306.1	305.3
50°	5492.0	3526.7	859.4	446.0	377.1	353.2	340.1	324.2	304.6	290.8	288.6
52.5°	5820.5	3686.9	810.1	406.8	351.0	337.2	325.6	308.9	292.9	278.5	277.1
55°	6106.2	3816.8	723.0	369.8	327.8	323.5	311.8	290.8	269.1	256.8	255.2
57.5°	6380.4	3915.4	614.3	339.4	306.8	308.2	290.8	271.9	251.6	238.6	237.2
60°	6745.1	4047.4	504.0	311.1	284.2	288.6	269.8	256.0	230.6	213.9	211.8
62.5°	7328.2	4252.6	400.4	276.3	258.2	259.6	251.6	234.9	204.5	184.9	183.5
65°	7790.9	4177.2	315.5	238.6	228.5	230.6	230.6	212.5	179.9	157.3	155.2
67.5°	7738.6	3576.7	251.6	201.6	200.2	201.6	206.6	191.5	159.6	141.4	138.5
70°	7128.8	2845.0	201.6	167.5	174.0	170.5	184.9	174.8	143.6	125.5	123.3
72.5°	5816.9	2049.4	153.8	138.5	133.5	139.2	166.8	157.3	119.6	99.3	97.2
75°	3399.0	1093.6	114.6	109.5	96.5	116.0	147.9	134.2	91.3	73.3	71.0
77.5°	1106.7	381.5	84.2	80.5	71.8	93.6	126.2	113.2	74.7	58.0	55.9
80°	296.6	115.3	57.3	52.9	46.4	69.6	100.0	89.9	53.7	37.7	37.0
82.5°	118.9	48.6	33.3	29.7	25.4	47.9	79.0	72.6	39.9	23.9	23.9
85°	38.4	16.0	12.3	9.4	11.6	29.7	47.2	49.3	28.3	12.3	9.4
87.5°	5.1	2.2	2.2	2.9	2.2	5.1	14.6	13.7	8.0	1.4	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)