

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: P964050

Luminaire Tested: **NAV-SB3B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13111.8 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 109.2
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



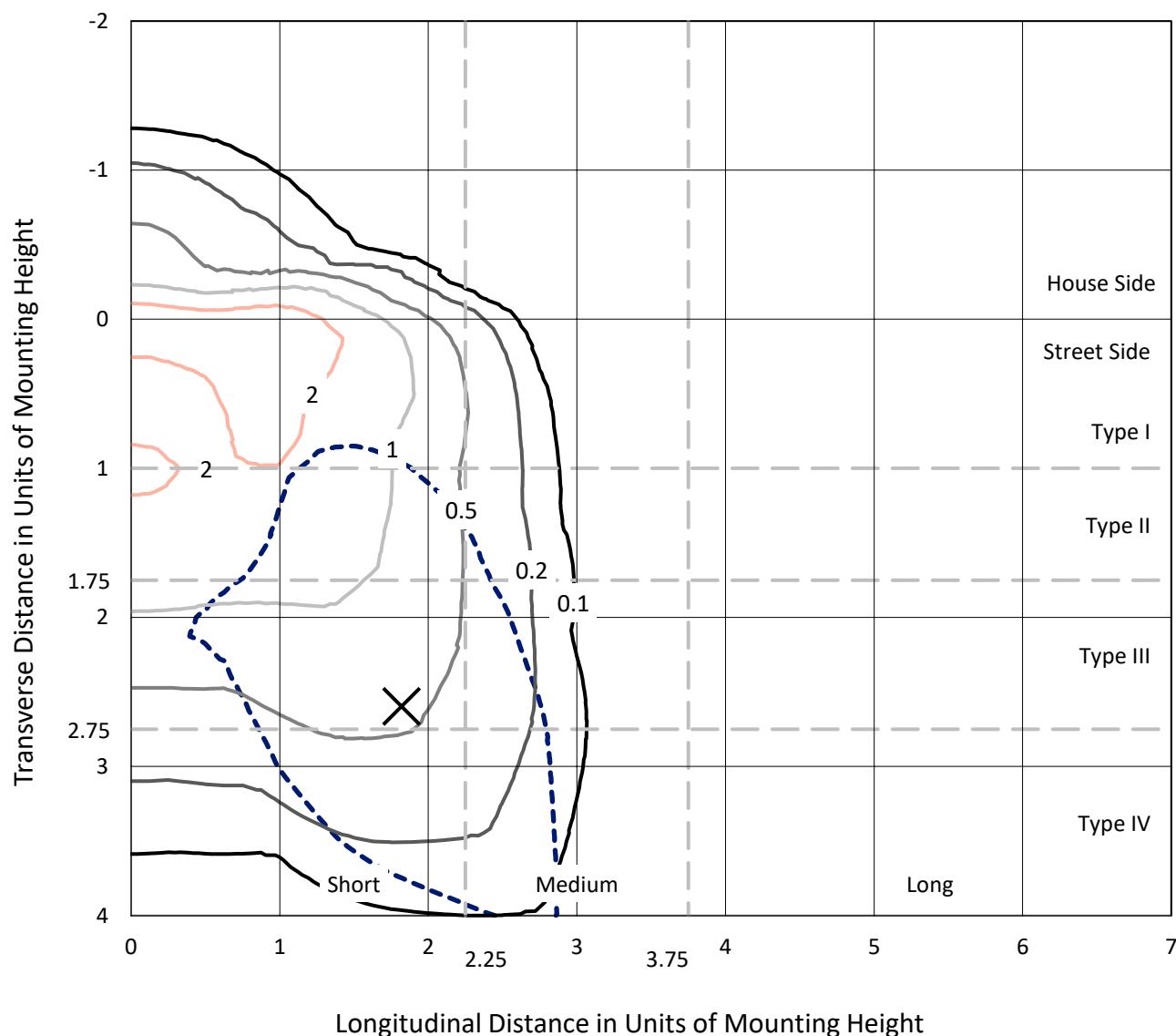
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

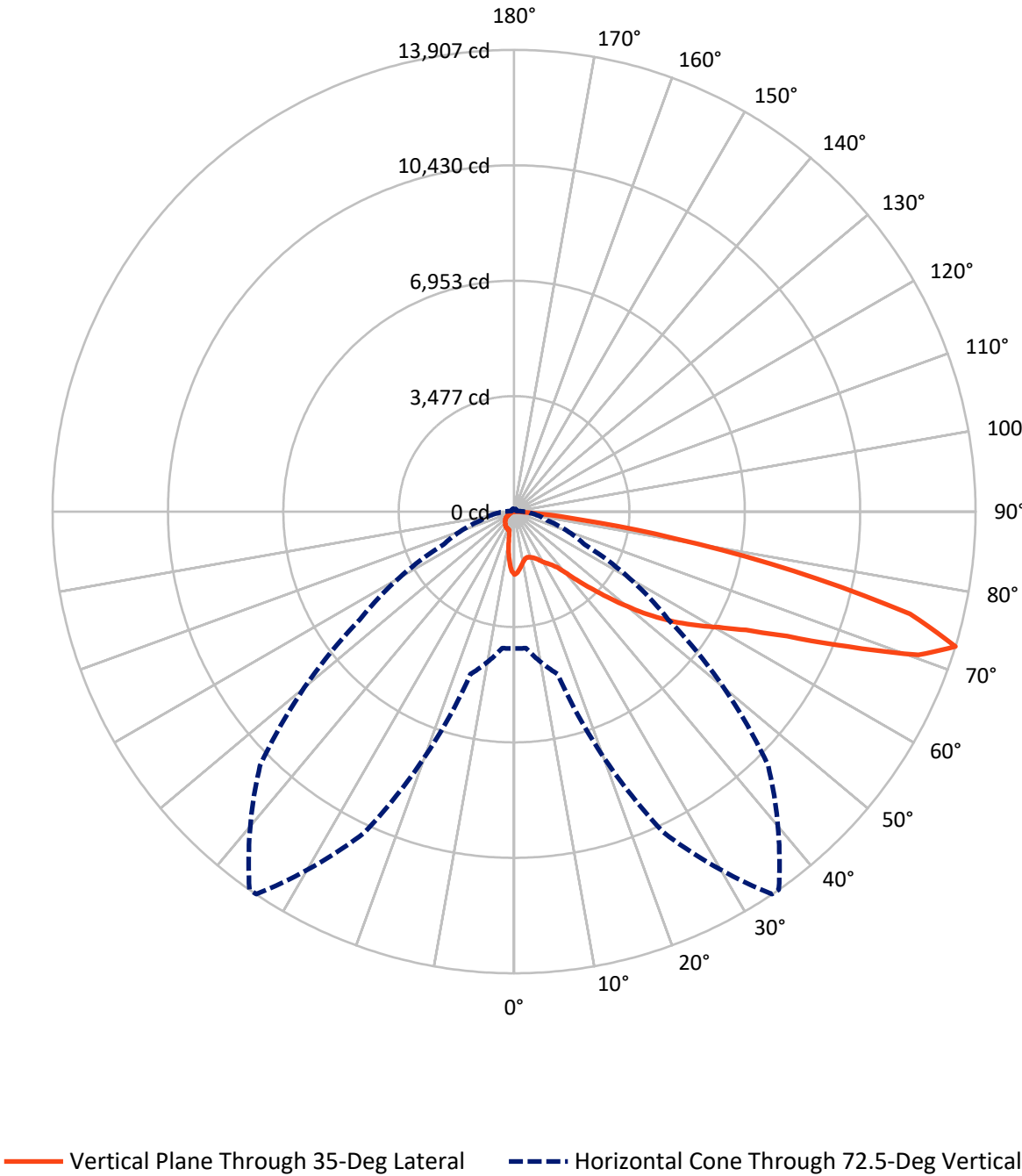


Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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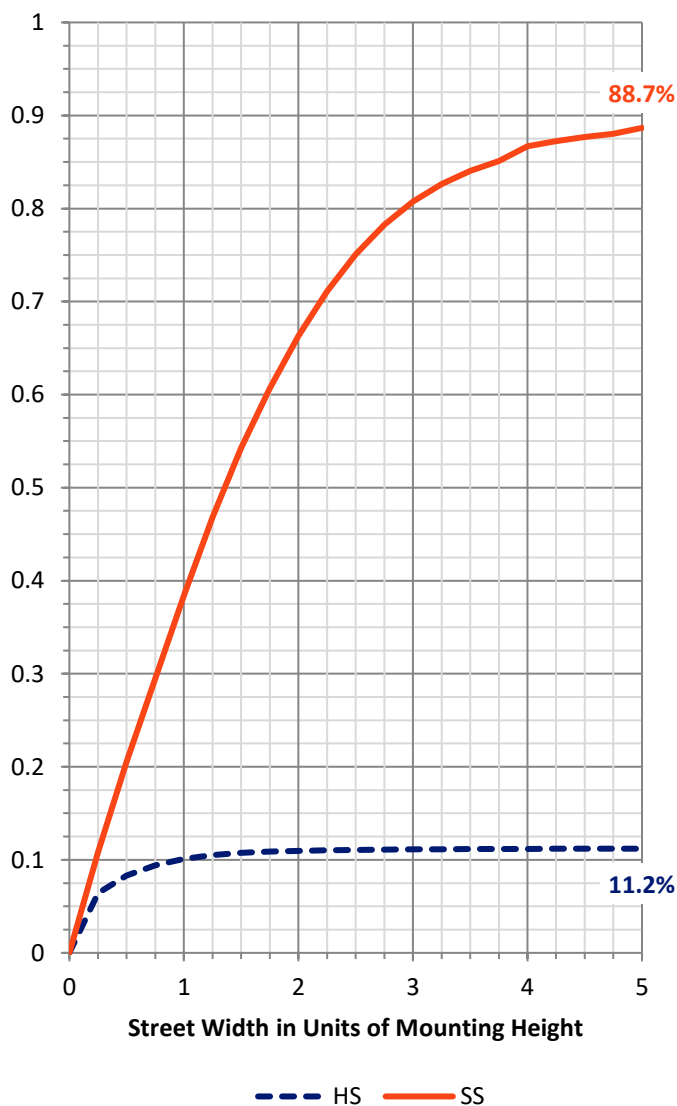
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1475.7	0.0	1475.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	11636.1	0.0	11636.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	13111.8	0.0	13111.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.2
10°-20°	365.3	2.8
20°-30°	593.4	4.5
30°-40°	990.1	7.6
40°-50°	1873.4	14.3
50°-60°	2976.8	22.7
60°-70°	3682.5	28.1
70°-80°	2289.1	17.5
80°-90°	185.0	1.4
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°	13111.8	100.0
0°-180°	13111.8	100.0

Coefficient of Utilization

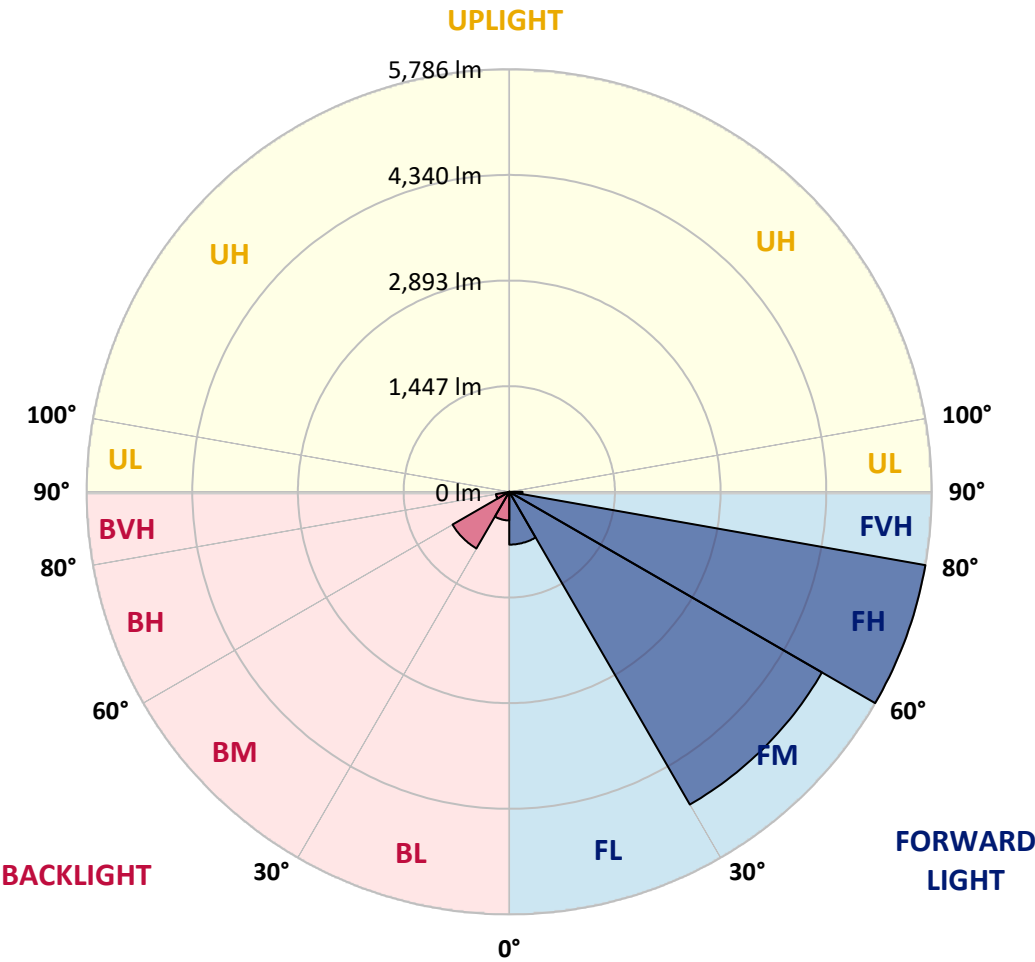


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.8	5.5			
FM	(30°-60°)	4944.5	37.7			
FH	(60°-80°)	5786.4	44.1			G3/7500
FVH	(80°-90°)	182.5	1.4			G2/225
BL	(0°-30°)	392.1	3.0	B1/500		
BM	(30°-60°)	895.9	6.8	B1/1000		
BH	(60°-80°)	185.2	1.4	B1/500		G1/500
BVH	(80°-90°)	2.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4
2.5°	1815.8	1831.2	1834.0	1838.8	1838.8	1844.6	1854.2	1867.7	1889.8	1901.3	1909.0
5°	1673.6	1685.1	1699.6	1711.0	1733.2	1736.0	1773.6	1810.0	1861.0	1899.4	1926.3
7.5°	1530.4	1543.9	1563.1	1591.0	1619.8	1628.4	1685.1	1746.6	1827.4	1899.4	1944.5
10°	1429.6	1430.5	1447.8	1475.7	1521.8	1532.4	1601.6	1689.0	1789.9	1887.8	1961.8
12.5°	1372.9	1379.6	1387.3	1408.5	1452.6	1459.4	1533.3	1636.1	1752.3	1881.1	1982.0
15°	1372.9	1377.7	1382.5	1393.1	1428.6	1434.4	1499.7	1602.5	1733.2	1884.1	2014.6
17.5°	1387.3	1395.0	1391.1	1403.6	1441.1	1444.9	1502.5	1593.0	1732.2	1902.3	2064.7
20°	1421.9	1427.6	1419.9	1427.6	1465.1	1472.8	1532.4	1611.2	1748.5	1934.0	2127.1
22.5°	1476.6	1479.6	1461.2	1467.1	1505.5	1515.1	1584.2	1663.1	1787.9	1984.9	2210.6
25°	1545.8	1551.5	1523.8	1530.4	1566.9	1578.5	1658.2	1740.9	1850.3	2055.0	2317.3
27.5°	1625.5	1628.4	1604.4	1603.5	1650.6	1666.9	1747.6	1836.9	1934.0	2143.4	2451.8
30°	1716.9	1725.5	1702.4	1698.6	1758.2	1771.6	1851.4	1955.1	2057.0	2276.0	2643.0
32.5°	1788.9	1795.6	1782.2	1791.8	1852.3	1862.8	1977.2	2122.3	2250.1	2464.3	2903.3
35°	1892.7	1896.5	1865.7	1883.0	1952.2	1979.1	2149.2	2356.7	2493.1	2700.7	3243.4
37.5°	2268.3	2268.3	2137.6	2052.2	2118.5	2142.5	2384.6	2651.7	2792.8	3017.7	3672.0
40°	2788.1	2779.4	2588.2	2413.4	2404.8	2451.8	2719.8	3023.4	3180.1	3398.1	4154.2
42.5°	3342.4	3329.0	3068.6	2895.6	2866.8	2883.2	3107.0	3481.7	3641.2	3862.2	4673.1
45°	3834.3	3830.4	3592.2	3359.7	3307.8	3359.7	3590.3	4017.8	4132.1	4364.7	5190.9
47.5°	4246.5	4246.5	4072.5	3920.7	3893.9	3924.6	4244.5	4612.5	4601.9	4899.8	5695.2
50°	4721.0	4717.3	4552.0	4486.6	4514.5	4557.8	4997.8	5238.9	5088.1	5425.3	6145.8
52.5°	5053.5	5076.5	5019.8	5009.3	5151.4	5226.4	5762.5	5851.8	5523.3	5923.9	6483.0
55°	5316.7	5343.6	5408.9	5482.9	5756.7	5854.7	6503.2	6433.1	5887.4	6356.2	6677.2
57.5°	5689.5	5651.0	5751.9	5898.0	6340.9	6459.0	7220.9	6981.7	6180.4	6706.9	6698.3
60°	6142.0	6147.7	6165.1	6349.6	6924.1	7075.9	7928.0	7500.4	6368.7	6922.1	6463.9
62.5°	6685.8	6694.4	6729.9	7013.4	7707.1	7850.2	8681.2	7925.1	6455.2	6861.6	5858.6
65°	6648.4	6684.8	7081.6	8051.0	8897.4	9038.7	9560.3	8223.0	6324.6	6308.2	4770.0
67.5°	6056.5	6116.1	6780.0	9290.3	10692.1	10849.6	10622.9	8281.6	5760.6	4905.5	3111.8
70°	5280.2	5301.4	6099.8	10404.8	12770.2	12929.7	11574.0	7636.9	4371.3	2736.1	1394.0
72.5°	4123.5	4128.3	5065.0	10663.3	13898.1	13906.7	10827.5	5669.3	2350.9	1051.0	484.2
75°	2945.6	2916.8	3392.3	8647.6	12227.3	12325.3	8117.3	2659.4	898.3	496.7	241.2
77.5°	1579.4	1611.2	1919.5	5128.4	8446.8	8614.0	4429.0	766.7	457.4	338.1	159.5
80°	488.1	515.0	786.9	2348.1	4784.5	4885.4	1641.9	341.0	319.0	241.2	104.8
82.5°	153.8	159.5	367.1	986.7	1985.8	2032.0	475.6	193.1	218.1	159.5	61.5
85°	44.2	45.2	163.3	368.0	491.0	500.5	133.6	74.9	124.8	98.9	31.7
87.5°	4.8	15.4	61.5	61.5	43.3	42.2	14.5	16.3	35.6	12.5	5.7
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°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4
2.5°	1904.1	1905.2	1892.7	1871.5	1848.5	1829.2	1805.2	1786.1	1772.5	1768.7	1775.4
5°	1917.7	1910.9	1875.3	1811.0	1734.1	1667.9	1593.9	1535.2	1496.8	1480.5	1486.2
7.5°	1937.8	1918.6	1840.8	1714.0	1566.9	1436.3	1303.7	1200.9	1135.6	1102.9	1107.7
10°	1955.1	1916.6	1783.1	1573.7	1348.9	1151.0	972.3	848.3	779.2	746.5	747.4
12.5°	1971.5	1915.7	1708.2	1407.5	1102.9	860.8	694.6	633.1	613.9	607.2	605.3
15°	2002.1	1918.6	1614.1	1217.3	857.9	650.5	589.9	589.0	592.8	590.8	589.9
17.5°	2044.5	1921.5	1507.4	1015.5	661.9	573.6	570.7	579.3	585.1	582.2	581.3
20°	2099.2	1933.0	1394.0	815.7	568.8	554.3	561.1	568.8	573.6	568.8	567.7
22.5°	2176.1	1953.1	1270.1	655.2	538.9	542.8	548.6	557.2	562.0	555.3	554.3
25°	2270.3	1984.9	1148.1	569.7	524.6	529.4	538.0	547.7	553.4	546.6	545.7
27.5°	2392.2	2035.8	1035.7	550.5	510.1	513.0	525.5	540.0	547.7	538.9	538.9
30°	2569.1	2119.4	938.6	559.1	501.5	494.8	512.1	532.3	540.9	533.2	532.3
32.5°	2803.5	2237.6	879.0	572.6	497.6	473.7	489.9	515.9	530.3	525.5	525.5
35°	3110.9	2417.3	856.0	587.9	494.8	451.5	463.1	491.0	515.9	520.7	520.7
37.5°	3483.7	2667.0	862.7	594.7	486.2	433.3	439.0	463.1	495.7	511.1	515.0
40°	3907.3	2958.1	901.2	587.9	476.5	417.9	418.9	437.2	466.0	489.0	496.7
42.5°	4344.5	3298.2	972.3	563.0	467.9	404.5	401.6	414.1	433.3	449.7	456.3
45°	4760.4	3647.9	1042.4	528.4	457.4	391.0	384.3	389.1	393.0	399.6	403.5
47.5°	5123.6	3893.9	1022.2	496.7	442.9	375.7	364.1	362.2	350.7	349.7	348.7
50°	5374.4	3947.7	907.9	465.0	421.8	358.3	340.1	328.6	308.4	298.8	299.7
52.5°	5454.1	3735.3	741.7	433.3	387.1	335.3	309.3	291.1	266.1	257.5	256.6
55°	5348.4	3319.4	592.8	394.8	339.2	304.5	275.7	251.7	231.5	221.0	221.0
57.5°	5089.9	2789.9	468.8	349.7	288.2	270.0	241.2	217.1	199.9	189.2	187.4
60°	4661.5	2215.4	370.8	295.9	246.0	232.5	202.7	187.4	172.0	159.5	156.6
62.5°	4011.0	1581.4	291.1	234.4	205.6	190.2	172.9	161.4	143.2	125.9	123.0
65°	3130.0	967.5	224.8	172.0	165.2	157.5	147.0	136.4	114.3	97.1	94.2
67.5°	1974.4	458.3	160.4	129.7	130.7	126.8	122.0	113.4	97.1	81.7	79.7
70°	869.5	221.9	105.7	98.9	97.1	97.1	100.9	98.0	82.6	68.2	65.3
72.5°	295.9	119.1	78.8	74.9	70.1	69.2	84.6	81.7	66.3	52.9	49.9
75°	154.7	79.7	57.6	53.8	42.2	50.9	67.2	63.4	47.0	34.5	31.7
77.5°	100.9	56.7	39.4	34.5	24.0	33.6	49.9	44.2	27.9	17.3	15.4
80°	63.4	37.5	23.1	16.3	11.5	18.2	26.9	19.2	10.6	3.8	2.9
82.5°	33.6	19.2	8.6	5.7	4.8	5.7	6.8	4.8	1.9	0.0	0.0
85°	13.4	6.8	2.9	1.9	0.9	0.0	1.9	0.9	0.0	0.0	0.0
87.5°	4.8	0.9	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)