

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: P964724

Luminaire Tested: **NAV-SB3C-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21079.1 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 149.1
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

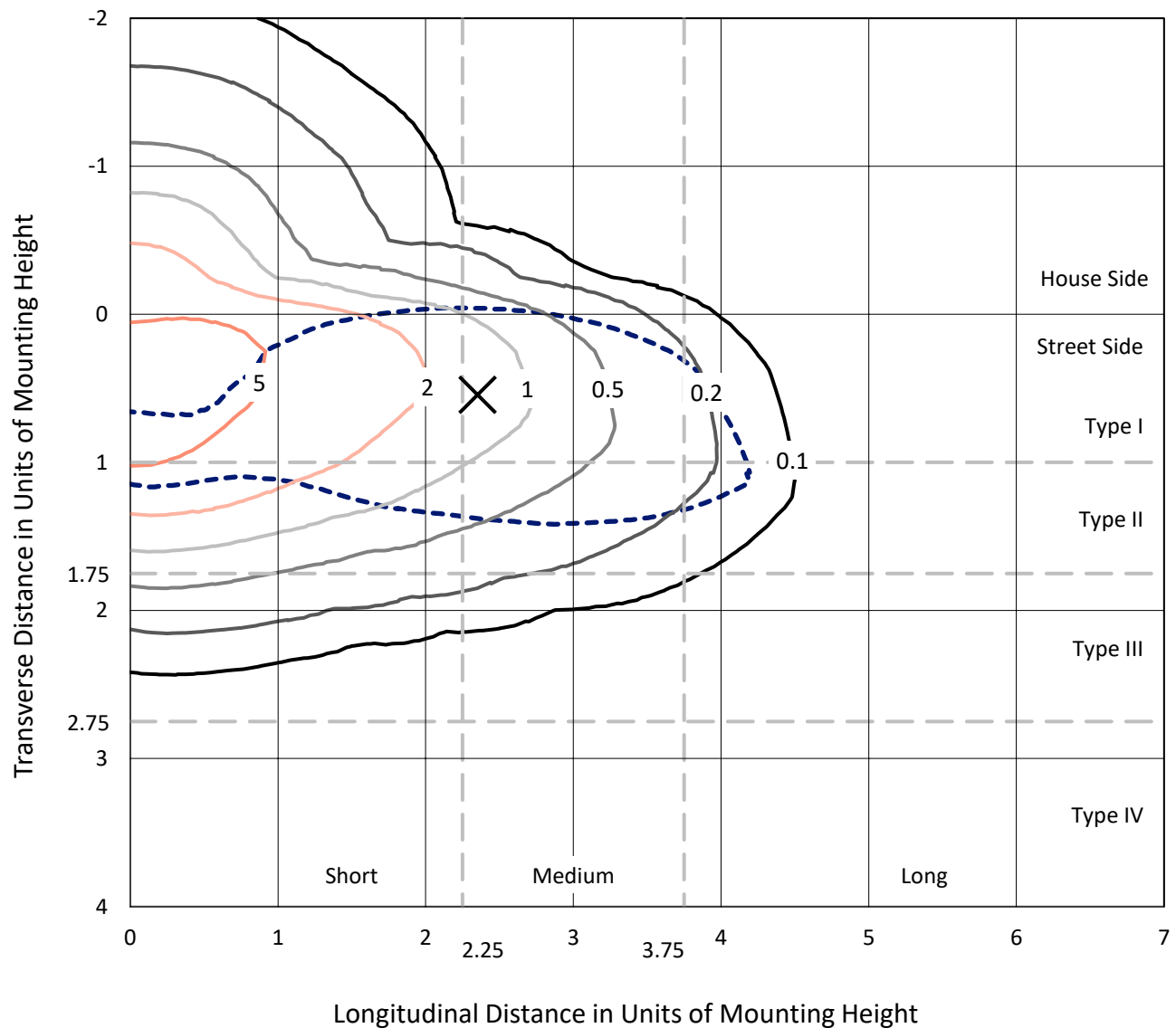


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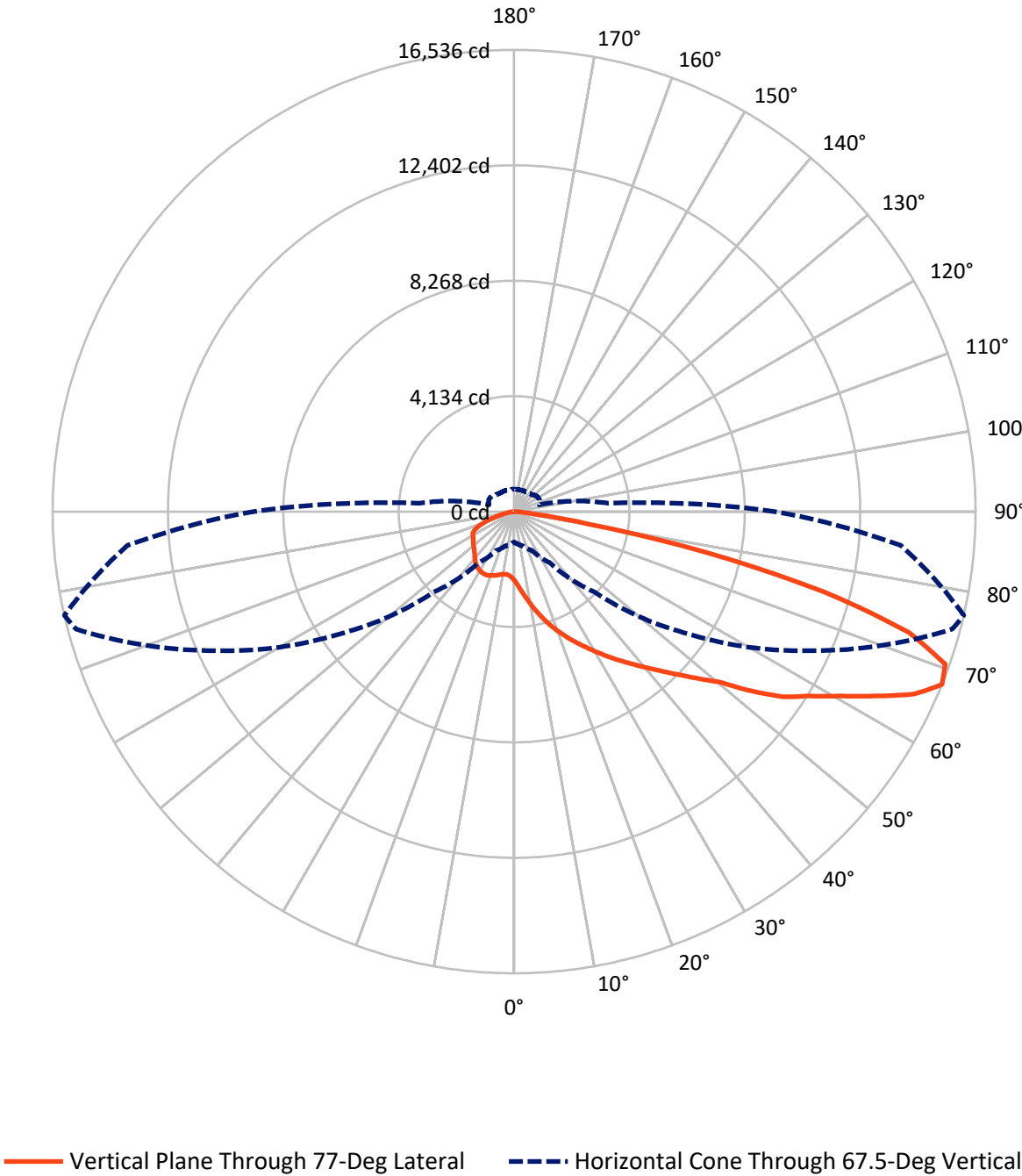
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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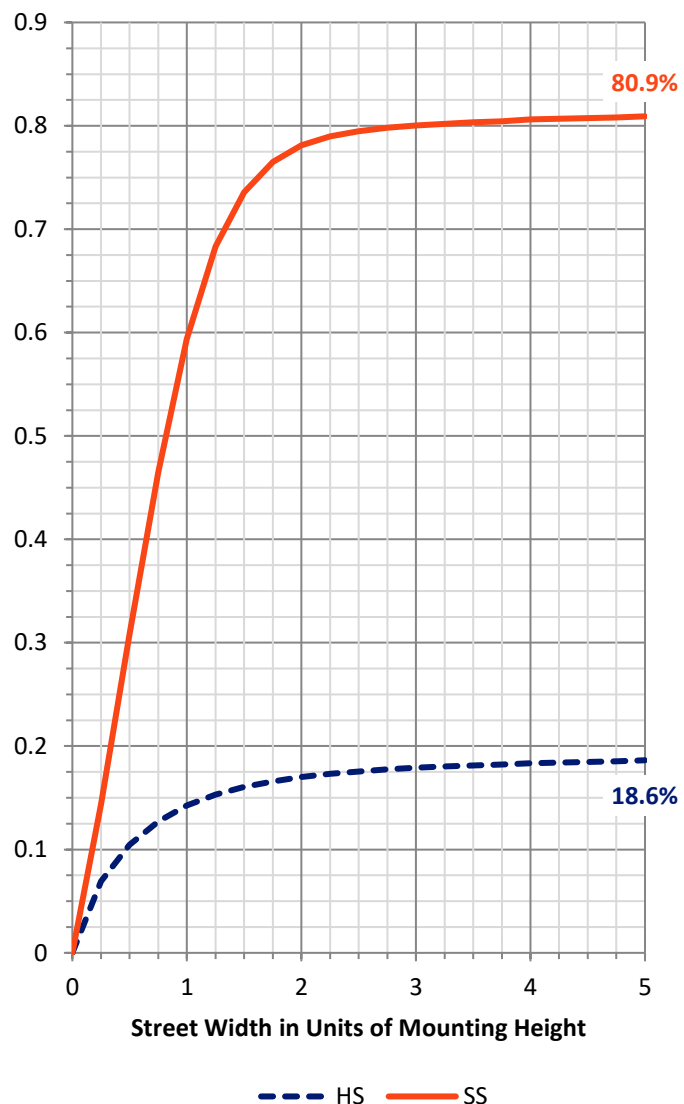
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3987.3	0.0	3987.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17091.8	0.0	17091.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	21079.1	0.0	21079.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	1.3
10°-20°	952.4	4.5
20°-30°	1798.2	8.5
30°-40°	2896.9	13.7
40°-50°	3962.4	18.8
50°-60°	4469.6	21.2
60°-70°	4171.8	19.8
70°-80°	2286.9	10.8
80°-90°	275.8	1.3
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°	21079.1	100.0
0°-180°	21079.1	100.0

Coefficient of Utilization



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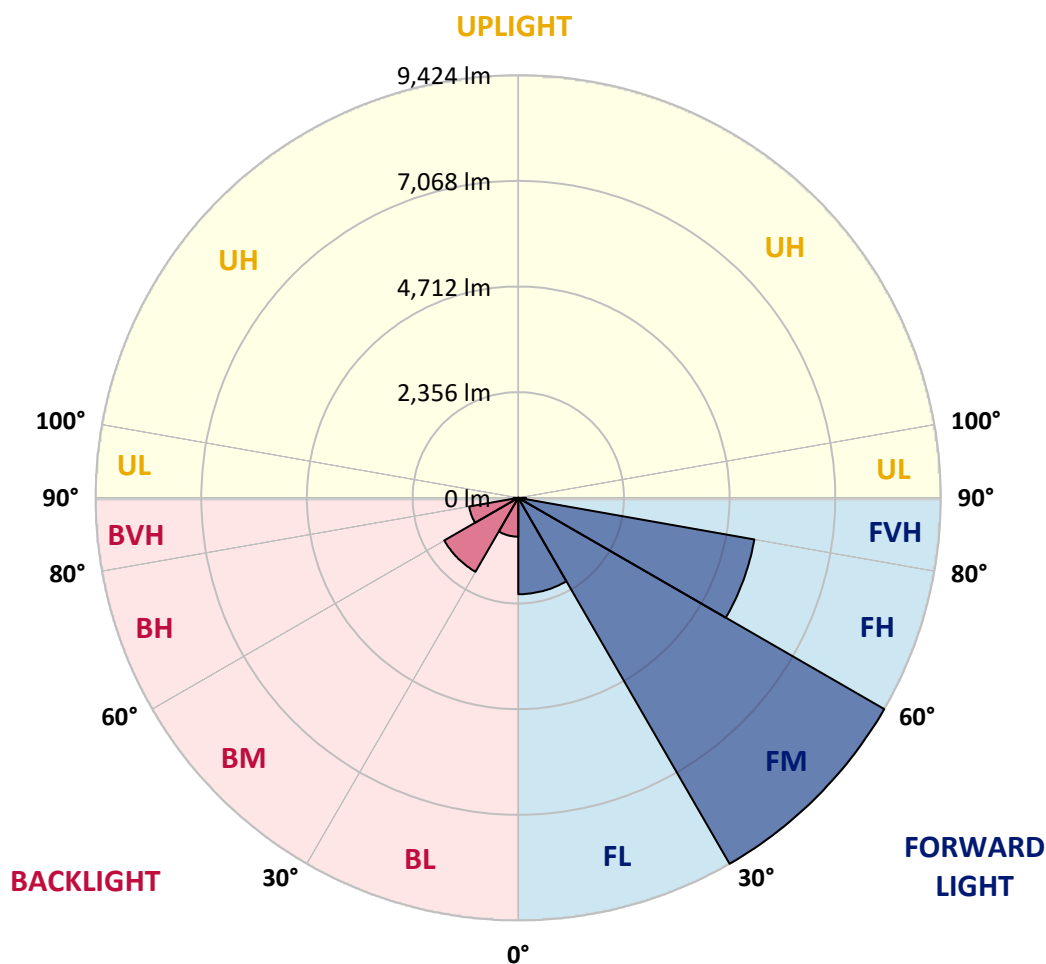
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2148.8	10.2			
FM	(30°-60°)	9424.2	44.7			
FH	(60°-80°)	5346.3	25.4			G3/7500
FVH	(80°-90°)	172.5	0.8			G2/225
BL	(0°-30°)	866.9	4.1	B2/1000		
BM	(30°-60°)	1904.6	9.0	B2/2500		
BH	(60°-80°)	1112.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	103.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2
2.5°	3096.7	3118.5	3091.3	3091.3	2999.9	2952.0	2860.6	2791.0	2665.8	2644.1	2561.4
5°	3660.4	3687.5	3649.5	3633.1	3525.4	3426.4	3273.0	3121.7	2898.7	2875.8	2681.1
7.5°	4096.7	4131.5	4097.7	4080.3	3984.6	3873.6	3694.1	3483.0	3168.5	3123.9	2842.1
10°	4452.5	4457.9	4447.1	4453.5	4378.5	4287.1	4103.2	3857.3	3464.5	3403.5	3036.9
12.5°	4653.8	4678.8	4700.5	4739.7	4726.7	4670.1	4504.7	4210.9	3777.8	3699.5	3249.0
15°	4748.4	4792.0	4841.0	4931.3	5004.2	5018.3	4892.0	4590.7	4096.7	4002.0	3463.4
17.5°	4782.1	4823.5	4900.7	5031.3	5188.0	5293.6	5237.0	4959.6	4412.2	4303.4	3688.7
20°	4953.0	4965.0	5011.7	5135.8	5305.5	5480.8	5523.2	5314.2	4724.5	4601.5	3921.4
22.5°	5318.6	5294.6	5307.8	5364.3	5486.2	5656.0	5752.7	5627.7	5045.5	4904.0	4156.5
25°	5922.4	5852.9	5783.3	5718.0	5780.0	5875.7	5985.6	5941.0	5381.7	5202.2	4393.8
27.5°	6685.3	6600.4	6446.9	6232.6	6157.5	6191.2	6240.2	6231.5	5693.0	5511.2	4638.5
30°	7436.1	7337.1	7154.2	6844.1	6646.1	6556.8	6519.8	6494.8	6031.3	5837.6	4885.6
32.5°	8035.6	7957.2	7777.7	7430.6	7143.3	6991.0	6868.0	6778.8	6384.9	6191.2	5146.7
35°	8560.0	8487.1	8281.5	7902.9	7590.5	7428.4	7267.4	7077.0	6752.7	6556.8	5427.4
37.5°	9038.8	8965.9	8684.1	8290.2	7975.7	7863.7	7720.0	7396.8	7121.6	6936.6	5724.4
40°	9341.2	9324.9	9061.6	8615.5	8289.1	8233.6	8185.8	7767.9	7530.7	7358.8	6050.9
42.5°	9418.5	9454.4	9245.5	8878.9	8567.7	8523.1	8635.1	8187.9	7989.9	7825.6	6420.8
45°	9232.5	9335.8	9198.8	8949.6	8765.7	8741.7	9033.3	8647.1	8498.0	8347.8	6867.0
47.5°	8761.3	8936.5	8879.9	8845.1	8819.0	8922.3	9383.7	9134.6	9073.6	8943.0	7376.2
50°	7810.3	8142.2	8241.2	8461.0	8713.4	9062.7	9702.5	9666.7	9746.0	9614.4	7996.4
52.5°	6166.2	6623.2	7197.8	7748.3	8389.2	9015.9	10052.9	10430.5	10765.6	10693.8	8982.2
55°	5090.2	5295.8	5737.5	6747.3	7760.3	8819.0	10210.6	11047.4	11777.6	11713.3	9729.7
57.5°	4263.2	4447.1	4719.1	5562.4	6809.3	8371.8	10308.6	11423.9	12470.7	12464.1	10467.5
60°	3376.4	3571.1	3849.7	4447.1	5698.4	7599.2	10286.8	11852.6	13355.2	13409.7	11367.4
62.5°	2375.3	2589.7	2898.7	3455.8	4563.5	6598.2	9842.9	12162.8	14396.5	14544.5	12450.0
65°	1561.4	1702.8	1935.7	2416.6	3400.3	5310.9	8995.3	12202.9	15510.8	15761.0	13466.2
67.5°	1094.6	1149.0	1286.2	1547.2	2241.5	4072.7	7645.0	11786.3	16253.9	16535.7	13906.9
70°	854.1	881.4	951.0	1055.4	1408.0	2738.7	5858.3	10702.5	16095.1	16388.8	13446.7
72.5°	737.7	763.8	790.0	803.0	944.4	1690.9	3968.3	8948.5	14599.0	14798.0	11691.6
75°	669.2	675.7	697.5	693.1	720.3	1096.8	2290.5	6519.8	11518.5	11450.0	8630.8
77.5°	562.5	571.2	607.1	601.7	639.8	749.7	1189.3	4207.6	7467.5	7001.9	4804.0
80°	476.6	480.9	520.1	513.6	556.1	542.9	607.1	2144.6	3167.5	2683.2	1385.2
82.5°	165.4	204.6	397.2	409.1	424.4	328.6	350.3	874.8	967.3	741.0	290.5
85°	80.6	86.0	202.3	287.3	286.2	165.4	170.9	312.3	304.6	239.3	96.9
87.5°	13.0	16.3	24.0	112.0	89.2	43.6	58.7	60.9	63.1	54.4	21.7
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°	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2	2473.2
2.5°	2500.5	2446.1	2331.8	2226.2	2143.6	2064.1	2019.5	1981.4	1959.7	1955.3	1955.3
5°	2567.9	2455.8	2248.0	2072.9	1958.6	1873.7	1829.1	1800.8	1786.7	1778.0	1776.8
7.5°	2664.7	2500.5	2204.5	2005.3	1885.7	1824.7	1801.8	1797.5	1796.4	1797.5	1800.8
10°	2798.6	2573.4	2200.2	1989.0	1889.0	1855.2	1854.1	1855.2	1859.6	1860.7	1861.7
12.5°	2943.3	2648.4	2217.5	2003.2	1930.3	1911.8	1908.5	1907.4	1910.7	1912.9	1914.0
15°	3101.0	2747.4	2246.9	2033.6	1976.0	1956.4	1953.1	1946.6	1945.6	1944.4	1943.3
17.5°	3263.2	2845.4	2279.6	2066.3	2005.3	1978.1	1966.2	1951.0	1939.0	1935.7	1939.0
20°	3427.5	2942.2	2302.4	2082.6	2007.6	1969.4	1945.6	1919.4	1898.7	1886.7	1891.1
22.5°	3602.7	3043.4	2316.5	2078.3	1988.0	1935.7	1892.2	1861.7	1830.1	1809.5	1810.6
25°	3773.5	3131.6	2315.5	2055.4	1949.9	1883.5	1828.0	1788.8	1745.3	1723.5	1723.5
27.5°	3937.8	3210.9	2288.2	2015.2	1895.4	1821.4	1755.1	1708.3	1665.8	1645.2	1644.1
30°	4107.6	3277.3	2245.8	1956.4	1831.3	1749.7	1676.8	1636.5	1598.4	1578.8	1577.8
32.5°	4276.2	3338.2	2186.0	1883.5	1757.3	1679.0	1607.1	1570.1	1547.2	1547.2	1548.4
35°	4454.6	3380.7	2106.6	1798.6	1679.0	1603.8	1547.2	1525.5	1523.4	1510.2	1507.1
37.5°	4642.9	3407.9	2009.7	1711.5	1601.7	1530.9	1513.5	1487.4	1465.6	1437.4	1433.1
40°	4841.0	3435.1	1893.3	1621.2	1520.1	1480.9	1473.2	1438.5	1376.5	1306.8	1297.0
42.5°	5081.4	3453.6	1772.5	1530.9	1434.1	1421.1	1431.9	1372.1	1273.0	1220.9	1221.9
45°	5359.9	3484.1	1661.5	1441.8	1345.9	1345.9	1391.6	1313.3	1231.7	1199.0	1204.5
47.5°	5721.2	3554.8	1558.1	1343.8	1264.3	1286.2	1302.5	1242.6	1196.9	1156.6	1155.6
50°	6243.5	3724.5	1451.5	1244.8	1202.3	1245.9	1223.0	1188.2	1134.9	1102.3	1099.0
52.5°	6892.0	3824.7	1356.9	1155.6	1149.0	1192.6	1159.9	1127.3	1087.0	1043.4	1034.7
55°	7333.8	3843.1	1277.5	1090.3	1113.1	1108.7	1096.8	1067.4	1045.7	988.0	989.1
57.5°	7827.7	3880.1	1212.2	1051.1	1090.3	1042.4	1038.0	1013.0	984.7	945.6	932.5
60°	8418.5	3937.8	1155.6	1035.9	1070.7	998.9	977.1	967.3	939.0	919.4	924.9
62.5°	9062.7	3990.0	1097.9	1038.0	1047.9	956.4	923.8	920.6	903.1	896.6	896.6
65°	9502.4	3847.5	1026.0	1035.9	1011.9	912.9	871.6	870.4	856.3	854.1	853.1
67.5°	9348.9	3395.9	929.3	1005.4	975.0	869.4	823.7	819.4	800.8	802.0	802.0
70°	8580.7	2751.8	795.4	930.3	929.3	830.2	773.7	759.5	734.4	738.8	743.1
72.5°	7140.0	2039.1	615.8	805.2	856.3	794.3	716.0	693.1	661.5	665.9	664.8
75°	5156.5	1386.2	448.3	612.6	745.4	751.8	659.4	620.2	582.1	588.7	590.8
77.5°	2638.7	785.6	329.7	422.2	585.4	683.4	608.2	556.1	547.3	608.2	599.5
80°	860.7	393.9	228.5	295.9	384.1	559.2	533.2	473.3	471.2	485.3	416.8
82.5°	256.8	166.5	146.9	194.7	212.2	428.8	460.2	358.0	307.9	324.2	335.2
85°	88.1	80.6	83.7	96.9	101.2	251.3	322.1	237.2	224.2	247.0	243.7
87.5°	20.7	28.3	24.0	21.7	21.7	60.9	125.2	99.0	137.1	91.4	88.1
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)