

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: P882546

Luminaire Tested: **NAV-SB2C-722-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-722-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

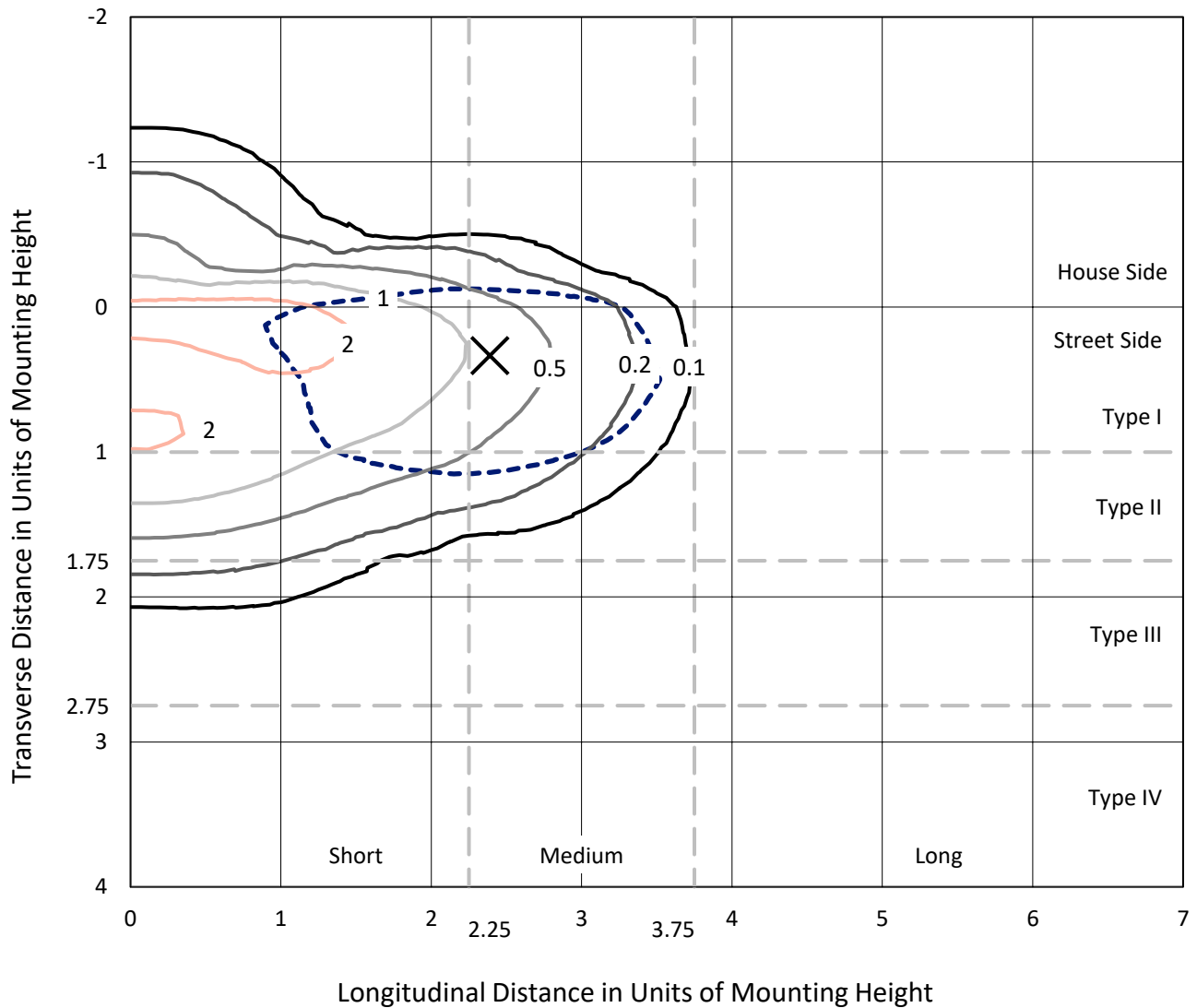
Lumens per Lamp: N/A  
Luminaire Lumens: 8882 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

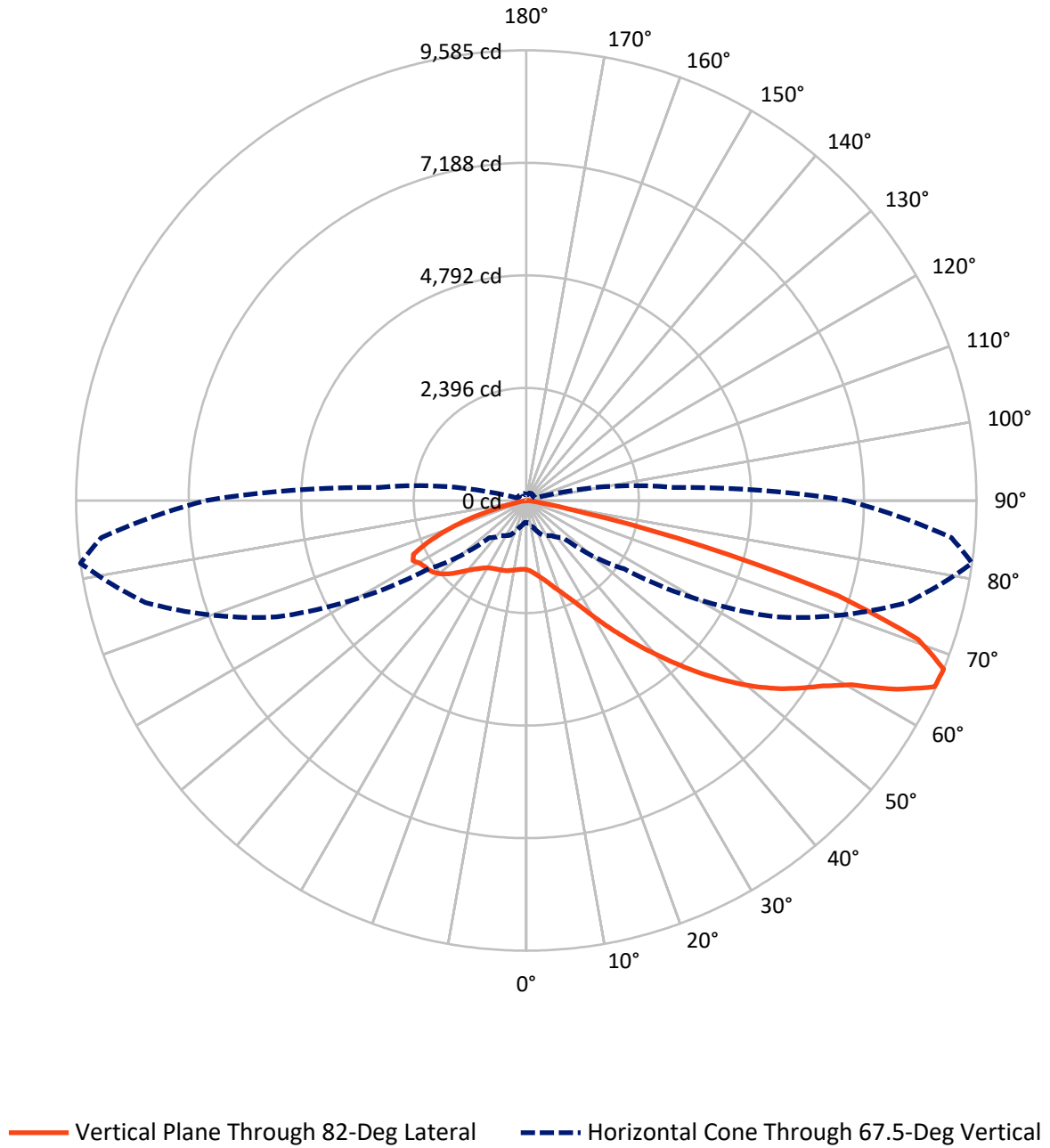
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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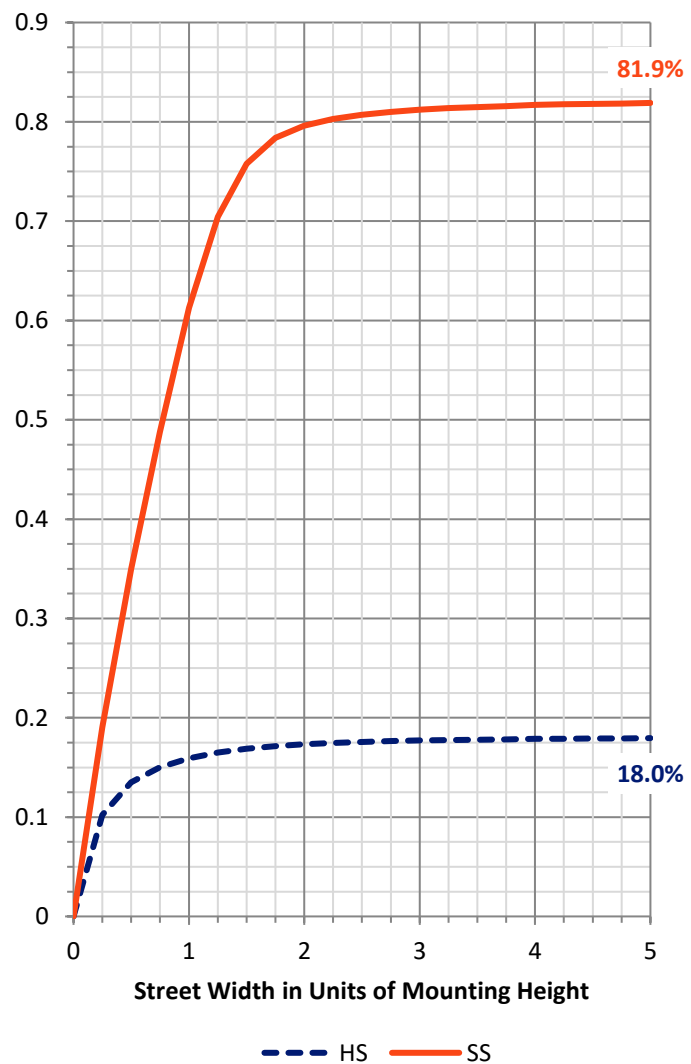
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1608.9	0.0	1608.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7273.1	0.0	7273.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	8882.0	0.0	8882.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	1.5
10°-20°	340.7	3.8
20°-30°	545.6	6.1
30°-40°	964.8	10.9
40°-50°	1690.5	19.0
50°-60°	2254.7	25.4
60°-70°	2099.0	23.6
70°-80°	805.6	9.1
80°-90°	50.0	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°	8882.0	100.0
0°-180°	8882.0	100.0

**Coefficient of Utilization**



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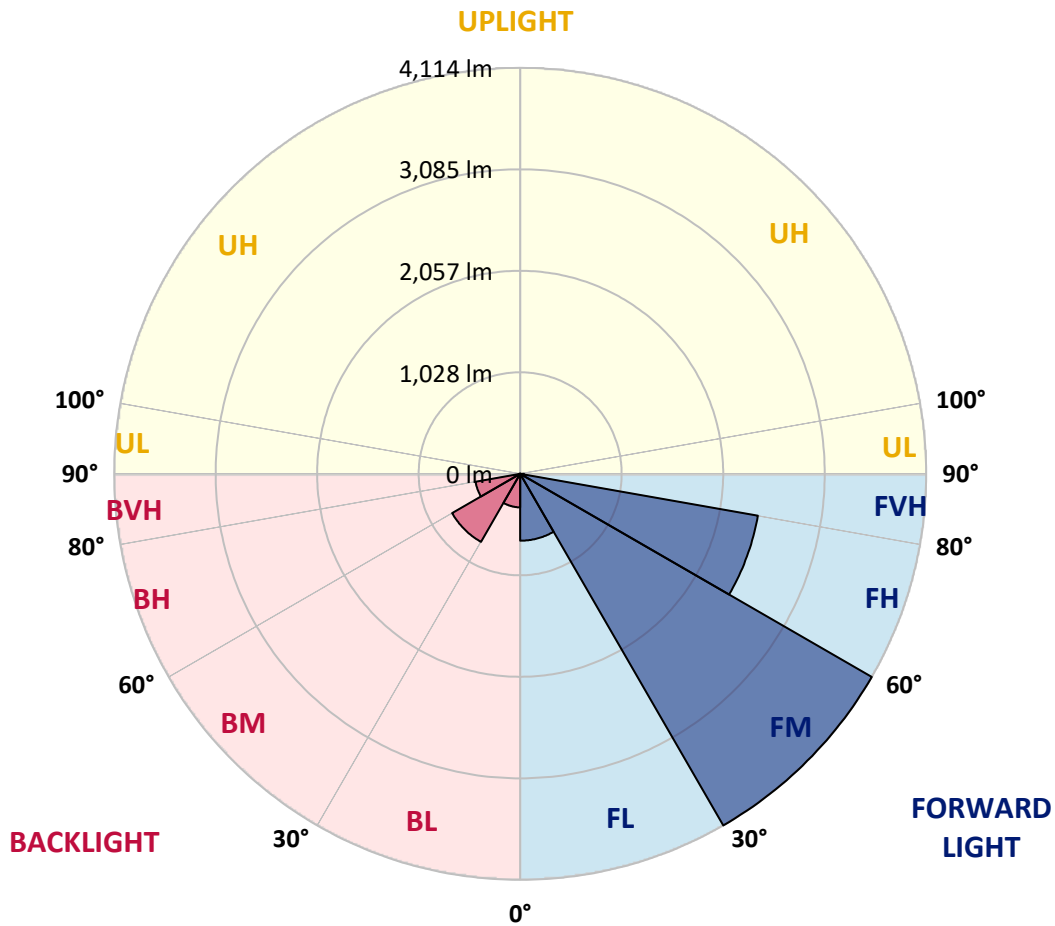
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.6	7.6			
FM (30°-60°)	4113.8	46.3			
FH (60°-80°)	2445.4	27.5			G2/5000
FVH (80°-90°)	36.4	0.4			G1/100
BL (0°-30°)	339.8	3.8	B1/500		
BM (30°-60°)	796.2	9.0	B1/1000		
BH (60°-80°)	459.2	5.2	B1/500		G1/500
BVH (80°-90°)	13.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1555.2	1564.2	1559.1	1556.5	1552.0	1545.6	1540.5	1524.5	1507.9	1497.0	1493.2
5°	1586.6	1595.5	1594.9	1597.4	1600.6	1602.5	1601.3	1583.4	1559.7	1541.2	1530.3
7.5°	1559.7	1569.9	1578.2	1591.0	1613.4	1637.1	1648.6	1644.7	1620.4	1594.9	1581.4
10°	1483.6	1494.5	1514.3	1544.3	1591.7	1642.8	1685.7	1705.5	1690.1	1662.0	1643.5
12.5°	1344.2	1355.1	1394.1	1459.3	1538.6	1627.5	1709.3	1762.4	1766.2	1738.1	1716.4
15°	1187.5	1198.4	1240.0	1321.8	1442.7	1585.3	1722.1	1822.5	1856.4	1832.1	1805.9
17.5°	1090.3	1099.9	1131.2	1197.1	1323.1	1500.9	1717.6	1886.5	1963.8	1944.7	1913.3
20°	1060.9	1069.2	1083.9	1130.0	1234.8	1413.3	1688.2	1946.6	2079.6	2068.7	2033.6
22.5°	1092.2	1099.9	1104.4	1124.8	1190.7	1355.7	1651.1	2008.0	2213.9	2215.2	2172.3
25°	1164.5	1172.2	1167.1	1179.8	1208.6	1337.8	1637.1	2080.2	2382.7	2396.8	2348.2
27.5°	1283.4	1284.1	1271.9	1271.3	1275.8	1364.7	1651.8	2157.6	2595.7	2621.9	2561.8
30°	1522.0	1512.4	1465.7	1415.2	1392.2	1445.2	1692.7	2249.1	2847.0	2893.7	2818.2
32.5°	1889.7	1875.6	1789.9	1669.0	1547.5	1575.0	1766.2	2353.3	3120.7	3205.1	3113.0
35°	2288.7	2284.9	2195.3	2015.6	1803.3	1759.9	1885.8	2490.1	3419.3	3553.6	3444.2
37.5°	2659.6	2657.7	2606.5	2394.9	2136.5	2017.6	2077.7	2669.2	3739.0	3933.5	3804.3
40°	2998.5	3004.3	2953.1	2763.8	2503.6	2348.2	2338.6	2890.5	4094.6	4347.2	4193.7
42.5°	3291.4	3297.8	3246.0	3106.0	2866.2	2714.0	2659.0	3161.6	4441.8	4791.6	4610.0
45°	3490.3	3529.9	3522.3	3410.4	3238.3	3080.4	3043.9	3501.8	4837.7	5262.9	5050.0
47.5°	3546.6	3583.0	3640.6	3655.9	3551.0	3395.6	3439.1	3911.7	5238.0	5734.9	5492.5
50°	3407.8	3441.7	3561.3	3720.5	3793.4	3745.4	3823.5	4351.0	5647.9	6205.5	5926.7
52.5°	3134.1	3168.6	3319.5	3571.5	3868.9	4019.8	4209.1	4784.0	6045.0	6651.2	6337.9
55°	2738.3	2774.7	2968.5	3253.7	3725.0	4133.0	4530.7	5216.3	6408.9	7052.2	6708.8
57.5°	2199.8	2226.7	2428.1	2827.1	3363.0	4020.4	4768.0	5688.2	6751.6	7446.1	7076.5
60°	1433.7	1457.4	1691.4	2136.5	2763.2	3644.4	4815.3	6214.5	7207.0	7958.3	7572.1
62.5°	953.5	969.5	1108.2	1435.0	1945.9	2922.4	4538.4	6634.6	7874.6	8849.8	8422.0
65°	654.2	670.2	808.9	1036.6	1257.2	1933.2	3742.2	6579.0	8479.5	9557.7	9051.9
67.5°	466.8	480.3	597.9	812.8	910.0	1122.9	2536.8	5867.9	8392.6	9584.5	9085.8
70°	334.4	342.1	439.3	633.1	723.3	674.7	1410.7	4487.9	7348.3	8850.4	8393.8
72.5°	234.1	236.6	305.0	482.2	582.6	492.4	671.5	2992.1	5557.7	6946.7	6507.4
75°	158.6	161.8	205.3	353.6	467.5	376.0	355.6	1604.5	3262.6	3845.2	3446.8
77.5°	97.2	98.5	132.4	241.7	349.8	286.5	228.9	679.8	1262.3	1239.3	1056.4
80°	55.0	55.0	84.4	150.3	238.5	184.8	160.5	289.0	399.7	351.1	309.5
82.5°	30.7	31.3	61.4	93.4	158.0	109.4	88.2	133.7	172.7	152.8	133.0
85°	12.8	14.1	37.7	44.1	75.5	54.4	35.8	56.3	63.9	56.9	41.6
87.5°	1.3	1.9	11.5	8.3	9.0	10.9	5.1	10.9	9.0	9.0	6.4
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°	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1481.0	1471.4	1447.1	1419.0	1381.9	1364.0	1339.7	1323.1	1309.0	1310.3	1297.5
5°	1509.8	1485.5	1431.2	1363.4	1279.0	1218.9	1154.9	1110.8	1075.0	1067.3	1050.0
7.5°	1549.5	1511.1	1415.8	1293.7	1151.1	1043.0	946.4	884.4	840.3	826.2	812.1
10°	1600.6	1545.0	1396.0	1206.1	1000.8	863.3	759.7	711.1	681.0	670.8	663.1
12.5°	1660.1	1584.0	1369.8	1099.3	846.0	713.7	647.8	623.5	613.9	610.7	608.8
15°	1734.9	1632.6	1330.1	972.7	714.9	622.2	594.1	590.9	592.2	590.9	590.2
17.5°	1823.8	1685.7	1265.5	842.2	626.7	575.5	565.3	567.9	571.1	570.4	569.1
20°	1921.0	1738.1	1183.0	726.5	566.6	542.3	536.5	539.1	541.6	540.4	539.7
22.5°	2031.6	1794.4	1091.6	636.3	526.3	511.6	505.2	505.8	505.8	503.3	502.0
25°	2164.0	1856.4	995.7	572.3	495.6	484.1	476.4	473.9	470.0	462.3	461.1
27.5°	2322.0	1922.3	903.6	527.6	471.3	460.4	451.5	445.1	435.5	422.7	421.4
30°	2499.7	2002.2	825.6	499.4	452.1	441.2	431.0	421.4	407.3	391.4	390.1
32.5°	2708.8	2087.9	768.7	480.9	434.8	423.3	411.2	399.7	384.3	368.3	369.0
35°	2958.2	2191.5	735.4	468.1	421.4	406.1	392.6	379.9	368.3	354.3	353.0
37.5°	3228.7	2301.5	725.2	461.7	412.5	388.8	373.5	364.5	363.2	354.9	354.3
40°	3524.8	2431.9	732.8	457.9	402.9	372.2	355.6	353.6	356.8	342.1	342.8
42.5°	3838.2	2586.7	745.6	453.4	389.4	355.6	339.6	339.6	337.0	316.5	316.5
45°	4177.1	2765.1	758.4	442.5	373.5	338.9	326.8	322.3	311.4	291.6	291.0
47.5°	4518.6	2946.7	768.0	422.7	354.3	324.9	314.0	303.8	287.8	269.9	269.2
50°	4842.8	3109.8	757.8	393.3	332.5	311.4	299.9	285.8	268.6	256.4	254.5
52.5°	5132.5	3251.1	714.3	358.7	309.5	297.4	287.1	272.4	258.4	245.6	244.3
55°	5384.4	3365.6	637.6	326.1	289.0	285.2	275.0	256.4	237.2	226.4	225.1
57.5°	5626.2	3452.6	541.6	299.3	270.5	271.8	256.4	239.8	221.9	210.4	209.1
60°	5947.8	3568.9	444.4	274.3	250.7	254.5	237.9	225.7	203.4	188.6	186.7
62.5°	6462.0	3749.9	353.0	243.6	227.7	228.9	221.9	207.2	180.3	163.1	161.8
65°	6869.9	3683.4	278.2	210.4	201.4	203.4	203.4	187.4	158.6	138.8	136.8
67.5°	6823.9	3153.9	221.9	177.8	176.5	177.8	182.3	168.8	140.7	124.7	122.1
70°	6286.1	2508.7	177.8	147.7	153.5	150.3	163.1	154.1	126.6	110.6	108.7
72.5°	5129.3	1807.2	135.6	122.1	117.7	122.8	147.1	138.8	105.5	87.6	85.7
75°	2997.2	964.3	101.0	96.6	85.1	102.3	130.5	118.3	80.6	64.6	62.7
77.5°	975.8	336.4	74.2	71.0	63.3	82.5	111.3	99.8	65.9	51.2	49.2
80°	261.5	101.7	50.5	46.7	40.9	61.4	88.2	79.3	47.3	33.3	32.6
82.5°	104.9	42.8	29.4	26.2	22.4	42.2	69.7	63.9	35.2	21.1	21.1
85°	33.9	14.1	10.9	8.3	10.2	26.2	41.6	43.5	24.9	10.9	8.3
87.5°	4.5	1.9	1.9	2.6	1.9	4.5	12.8	12.2	7.0	1.3	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)