

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: P960406

Luminaire Tested: **NAV-SB1C-750-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-750-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5671.3 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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

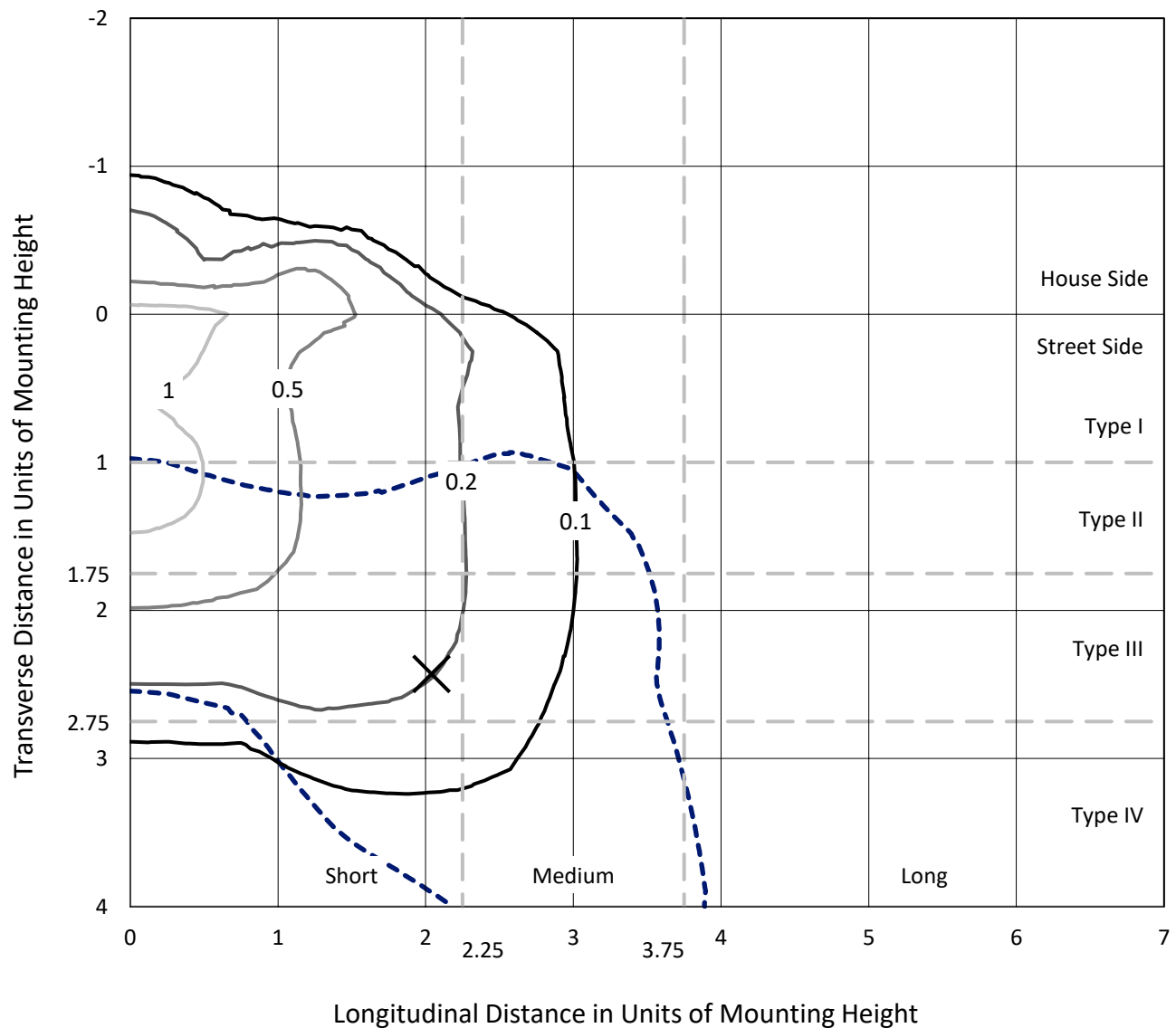


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Iso-Footcandle Lines of Horizontal Illumination

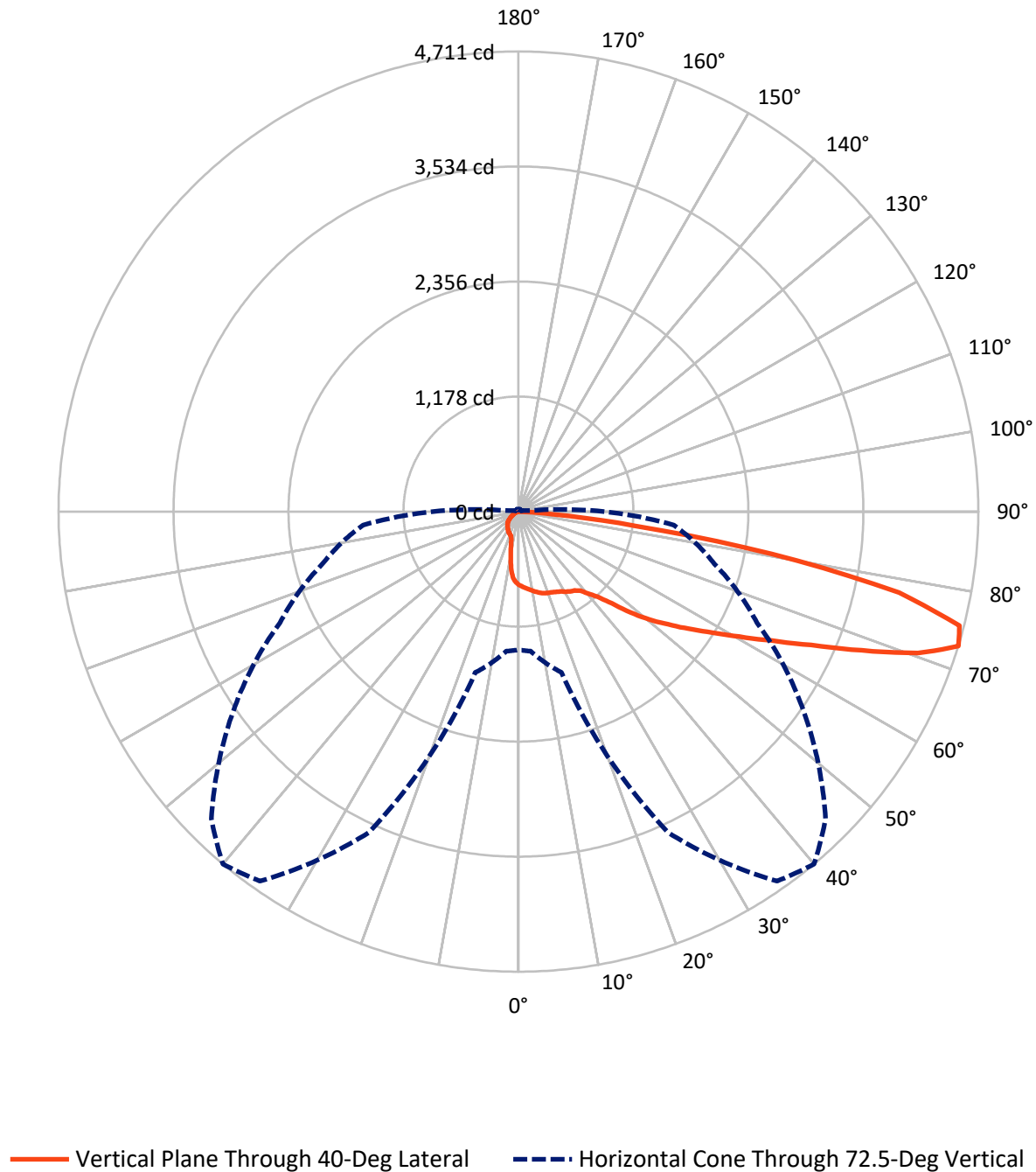
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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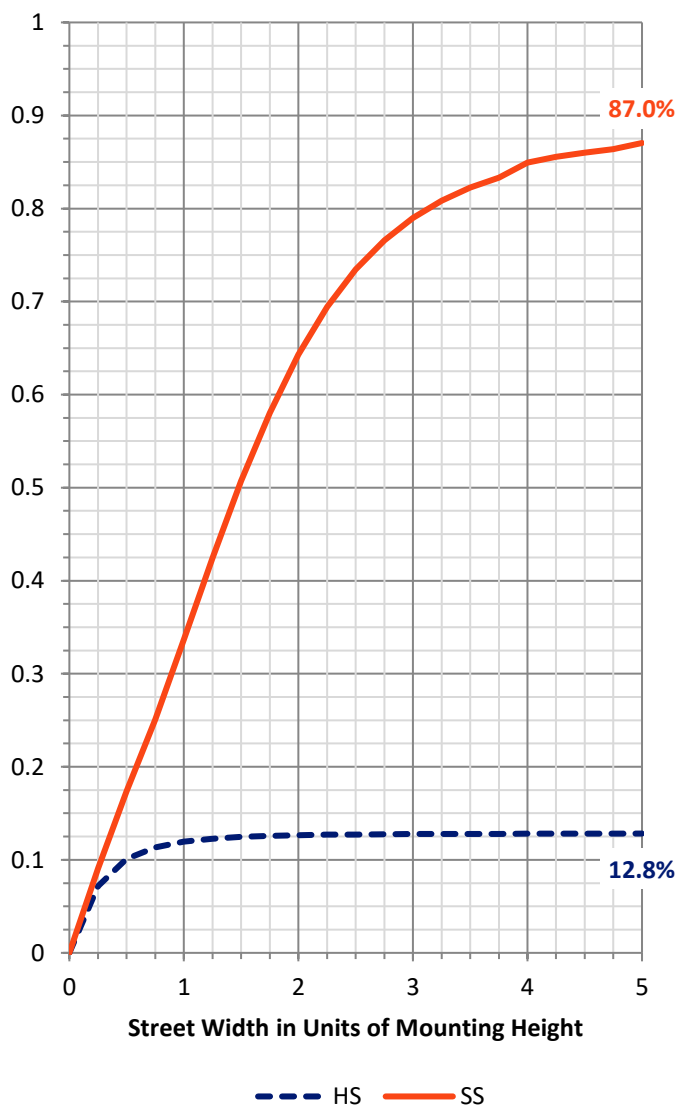
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	732.4	0.0	732.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4938.9	0.0	4938.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	5671.3	0.0	5671.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.2
10°-20°	186.2	3.3
20°-30°	301.4	5.3
30°-40°	444.9	7.8
40°-50°	748.8	13.2
50°-60°	1162.7	20.5
60°-70°	1454.8	25.7
70°-80°	1191.1	21.0
80°-90°	112.9	2.0
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°	5671.3	100.0
0°-180°	5671.3	100.0

Coefficient of Utilization



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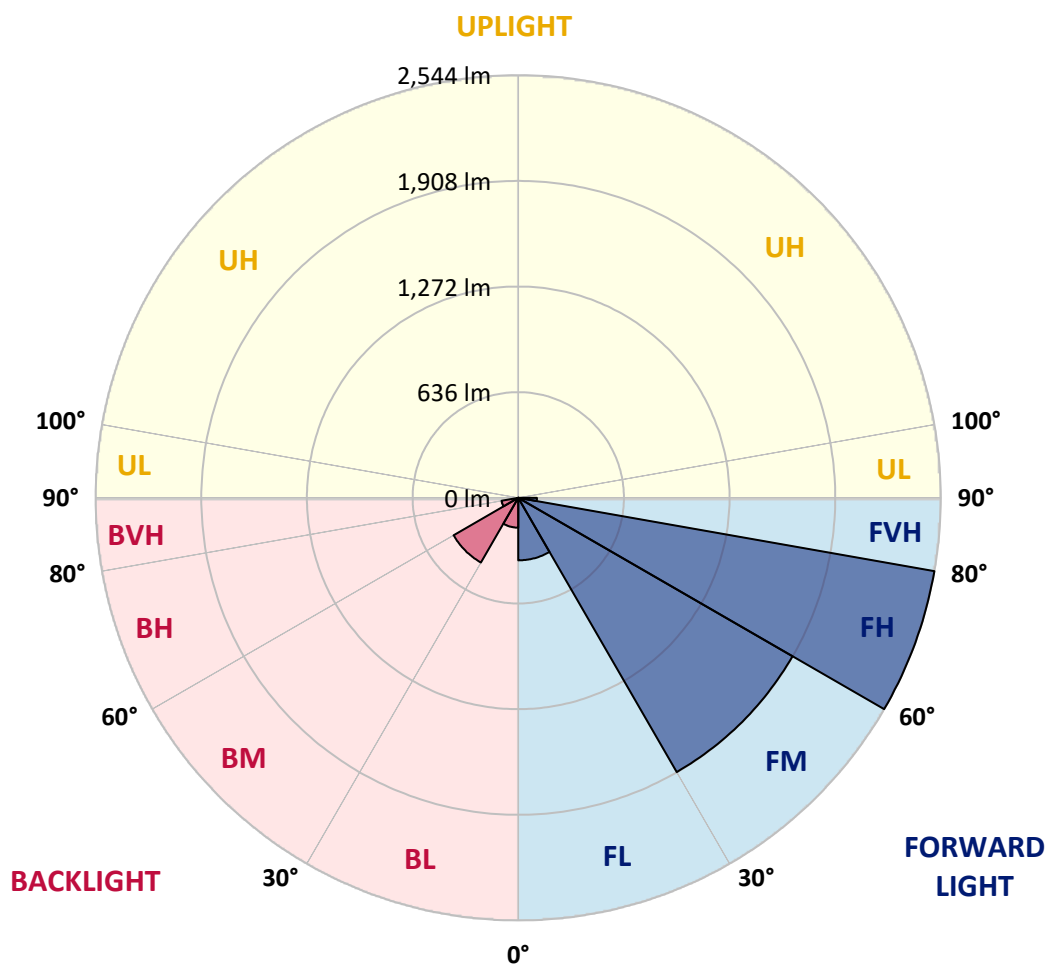
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.4	6.6			
FM	(30°-60°)	1906.6	33.6			
FH	(60°-80°)	2543.8	44.9			G2/5000
FVH	(80°-90°)	112.1	2.0			G2/225
BL	(0°-30°)	179.8	3.2	B1/500		
BM	(30°-60°)	449.7	7.9	B1/1000		
BH	(60°-80°)	102.0	1.8	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	773.6	776.5	774.9	771.4	770.6	768.9	766.7	765.9	762.9	760.3	757.4
5°	795.4	798.4	796.2	791.5	789.4	787.2	784.2	781.7	775.7	770.2	763.3
7.5°	819.3	821.8	819.3	812.4	809.0	806.5	802.2	798.4	791.5	783.4	774.9
10°	845.7	847.9	844.1	835.1	829.5	825.6	821.8	817.5	811.2	802.2	791.9
12.5°	870.5	873.1	867.2	856.4	850.0	846.1	841.9	838.4	832.1	823.6	812.8
15°	893.2	897.0	886.7	875.2	868.0	865.0	860.7	858.5	854.3	848.3	838.4
17.5°	910.3	912.9	902.1	888.5	880.4	878.2	875.2	876.5	875.7	872.7	866.2
20°	924.8	926.5	912.4	895.7	886.7	887.2	886.3	890.6	892.4	892.4	891.9
22.5°	942.7	943.1	925.2	904.3	893.6	896.6	897.9	902.6	906.0	909.4	917.1
25°	966.2	965.3	944.0	915.4	906.0	910.3	913.3	914.9	918.8	924.3	941.9
27.5°	1001.2	998.7	971.3	933.4	922.2	926.1	931.6	930.8	929.1	933.4	962.8
30°	1045.7	1042.2	1005.9	958.5	948.2	951.7	953.4	945.7	933.4	937.2	981.1
32.5°	1116.1	1110.2	1059.7	986.7	970.9	974.8	972.6	956.8	938.5	942.3	999.6
35°	1238.7	1224.3	1152.9	1045.7	996.5	992.3	987.2	971.8	949.1	945.3	1015.0
37.5°	1499.3	1473.6	1352.0	1160.6	1054.6	1026.8	1011.1	995.7	960.6	945.3	1032.4
40°	1793.1	1767.1	1626.6	1352.8	1151.2	1104.2	1066.6	1023.9	972.6	950.8	1059.7
42.5°	2099.9	2071.2	1926.9	1591.1	1289.1	1192.6	1122.6	1046.5	992.3	967.9	1096.0
45°	2442.5	2406.6	2217.8	1839.8	1489.4	1339.6	1212.7	1093.1	1026.4	998.2	1145.6
47.5°	2803.8	2757.2	2507.8	2081.1	1705.2	1542.8	1377.6	1176.4	1076.9	1043.6	1212.7
50°	3124.2	3078.1	2807.3	2333.5	1906.8	1736.4	1565.5	1291.7	1152.4	1107.6	1302.8
52.5°	3354.4	3319.4	3079.7	2594.1	2116.5	1917.9	1735.9	1425.8	1248.1	1189.6	1409.2
55°	3508.6	3476.6	3272.8	2841.0	2360.5	2117.9	1903.8	1571.5	1363.5	1287.8	1526.6
57.5°	3602.2	3583.8	3412.5	3061.4	2602.2	2336.5	2096.0	1731.6	1499.3	1403.6	1657.7
60°	3635.5	3620.5	3499.2	3271.5	2894.4	2599.2	2322.0	1912.3	1664.2	1535.1	1792.3
62.5°	3546.6	3549.6	3561.6	3520.6	3202.3	2906.8	2592.8	2129.3	1846.9	1684.3	1918.8
65°	3128.4	3153.2	3380.4	3796.5	3610.3	3292.1	2937.5	2394.2	2056.3	1853.8	2019.1
67.5°	2590.3	2626.2	2908.8	3957.9	4045.1	3792.2	3417.7	2731.6	2305.7	2026.4	2057.2
70°	1982.9	2021.3	2363.9	3924.2	4452.2	4339.0	4011.3	3160.9	2564.1	2146.0	1960.2
72.5°	1415.1	1434.8	1704.8	3624.0	4619.2	4711.4	4448.8	3567.5	2696.2	2079.8	1598.8
75°	994.5	991.0	1169.9	2918.3	4359.0	4666.2	4295.5	3347.5	2439.9	1652.2	985.8
77.5°	433.2	434.0	584.4	1772.2	3479.2	3985.3	3570.6	2096.8	1700.9	875.7	416.0
80°	112.3	115.7	214.4	705.6	2094.8	2630.4	2177.6	921.8	786.0	213.6	79.4
82.5°	39.8	42.3	98.7	221.7	772.7	1206.2	969.6	294.7	205.0	61.1	21.3
85°	11.6	13.6	53.0	68.0	159.8	340.9	235.3	57.2	50.4	31.6	5.5
87.5°	0.0	1.7	10.7	9.4	9.4	6.5	12.0	6.5	8.1	3.9	1.7
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°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	754.8	751.7	745.4	738.5	732.2	726.1	724.5	718.0	715.0	715.4	715.0
5°	758.6	753.1	740.7	725.7	710.3	692.8	678.3	657.8	640.3	638.2	636.8
7.5°	768.9	759.9	739.8	710.7	672.3	624.0	579.2	534.7	509.6	495.9	495.1
10°	784.6	772.7	742.0	686.4	604.9	518.5	450.7	394.7	366.0	352.8	350.2
12.5°	803.5	790.3	745.4	645.0	517.7	404.5	331.1	296.8	290.9	290.1	289.6
15°	829.9	815.4	749.2	589.1	423.3	308.0	274.2	274.7	279.3	281.9	281.5
17.5°	859.5	844.9	743.6	520.7	330.2	263.1	262.3	266.1	273.0	275.5	275.1
20°	889.3	875.7	724.1	440.4	267.0	250.7	254.2	258.4	265.3	268.7	268.7
22.5°	920.0	908.2	692.8	355.0	240.9	241.8	246.0	250.3	258.0	261.9	261.9
25°	952.9	942.7	651.4	284.4	229.8	232.4	237.9	243.0	251.1	255.8	255.8
27.5°	986.3	978.6	604.4	237.5	219.6	222.5	229.0	235.7	244.0	249.5	249.9
30°	1022.6	1018.3	566.8	220.0	209.7	212.3	219.6	227.2	236.3	243.0	244.0
32.5°	1059.7	1058.9	548.5	232.8	200.8	202.4	208.9	216.6	227.7	236.3	237.1
35°	1096.4	1098.2	537.8	269.1	197.7	193.1	197.3	204.2	217.4	228.1	229.8
37.5°	1143.5	1147.8	537.3	308.4	205.0	183.7	186.7	191.4	202.8	215.2	217.4
40°	1213.5	1236.1	564.7	342.1	217.8	175.2	176.0	176.8	182.9	193.1	196.5
42.5°	1306.7	1372.9	663.4	365.2	222.9	167.5	164.4	159.8	158.9	164.4	167.5
45°	1422.4	1538.2	836.8	378.0	217.8	158.9	150.8	138.4	133.7	137.6	137.6
47.5°	1558.7	1719.2	1042.2	381.0	209.3	148.2	133.7	117.5	113.7	114.9	114.5
50°	1691.6	1855.1	1222.9	356.3	195.2	134.6	114.9	101.3	98.7	99.1	99.1
52.5°	1809.0	1901.7	1274.2	297.8	176.4	117.9	98.7	89.3	87.5	87.5	87.1
55°	1886.7	1851.3	1136.2	227.7	152.9	100.8	84.6	79.8	79.0	78.6	77.7
57.5°	1902.9	1687.3	858.1	164.4	119.6	85.0	75.1	72.6	70.9	69.2	68.4
60°	1844.9	1413.9	546.3	114.9	89.7	72.6	66.6	64.9	61.5	58.1	56.8
62.5°	1719.2	1067.8	302.4	79.8	72.2	61.9	58.9	56.8	50.4	44.9	43.2
65°	1550.5	709.9	133.7	62.3	58.9	52.1	50.4	47.5	39.8	33.3	32.1
67.5°	1381.0	408.8	60.3	50.0	47.5	42.7	41.4	39.3	33.7	27.8	27.0
70°	1187.5	207.2	41.4	39.8	36.7	32.5	33.7	33.3	27.8	22.7	21.8
72.5°	884.2	102.9	31.2	29.9	26.4	23.1	27.8	27.4	21.8	17.1	16.2
75°	500.6	50.8	22.7	20.9	15.8	17.1	22.2	20.9	15.0	11.1	10.2
77.5°	198.6	26.0	15.0	12.8	9.4	11.6	16.2	14.1	7.7	4.7	4.3
80°	45.7	12.8	7.7	5.5	4.3	6.9	8.5	5.1	2.2	0.4	0.0
82.5°	12.8	5.5	2.6	2.2	2.2	2.6	2.2	0.8	0.0	0.0	0.0
85°	4.3	2.6	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	1.7	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)