

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: P960359

Luminaire Tested: **NAV-SB1C-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-735-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7883.3 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
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

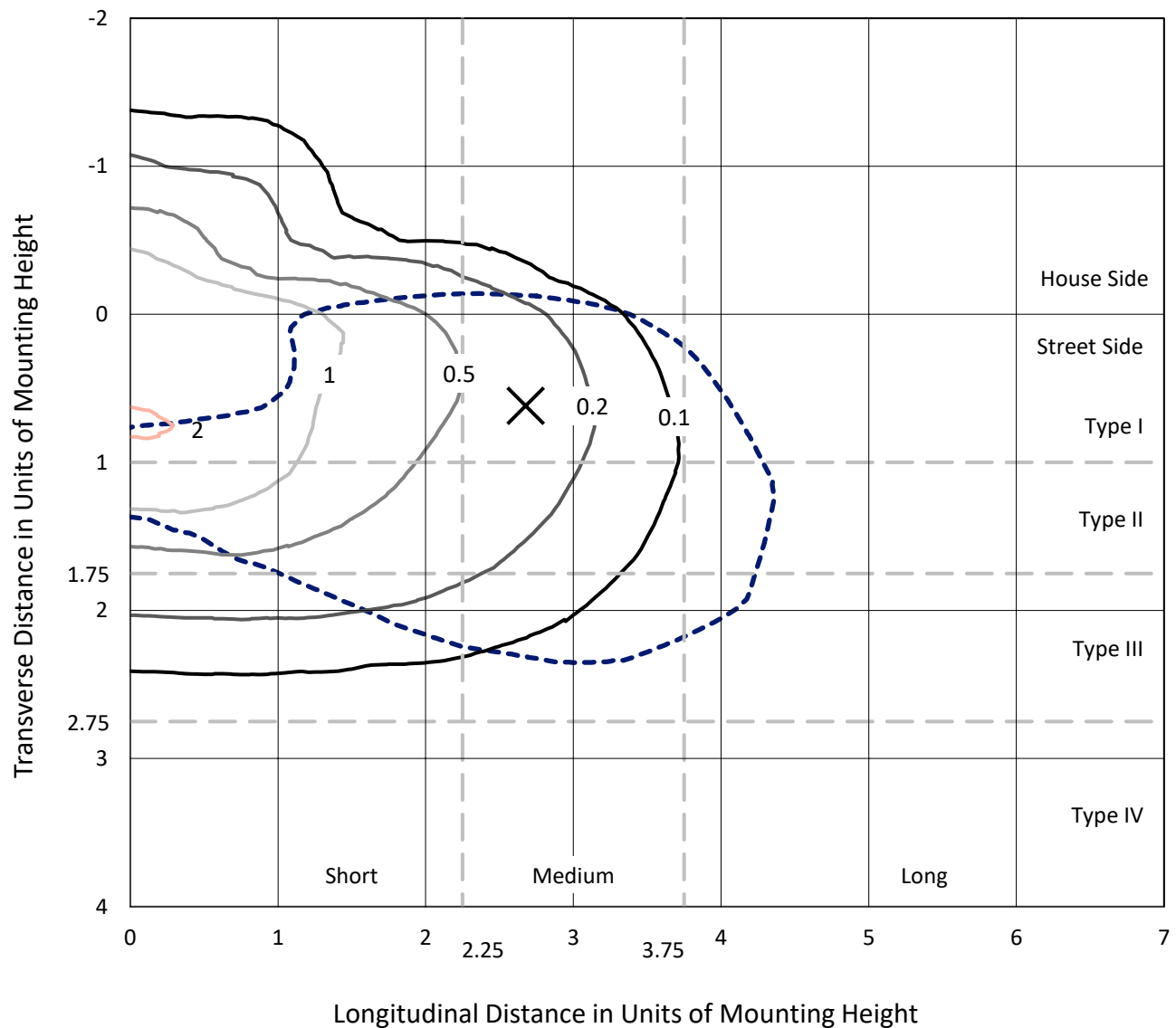


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Iso-Footcandle Lines of Horizontal Illumination

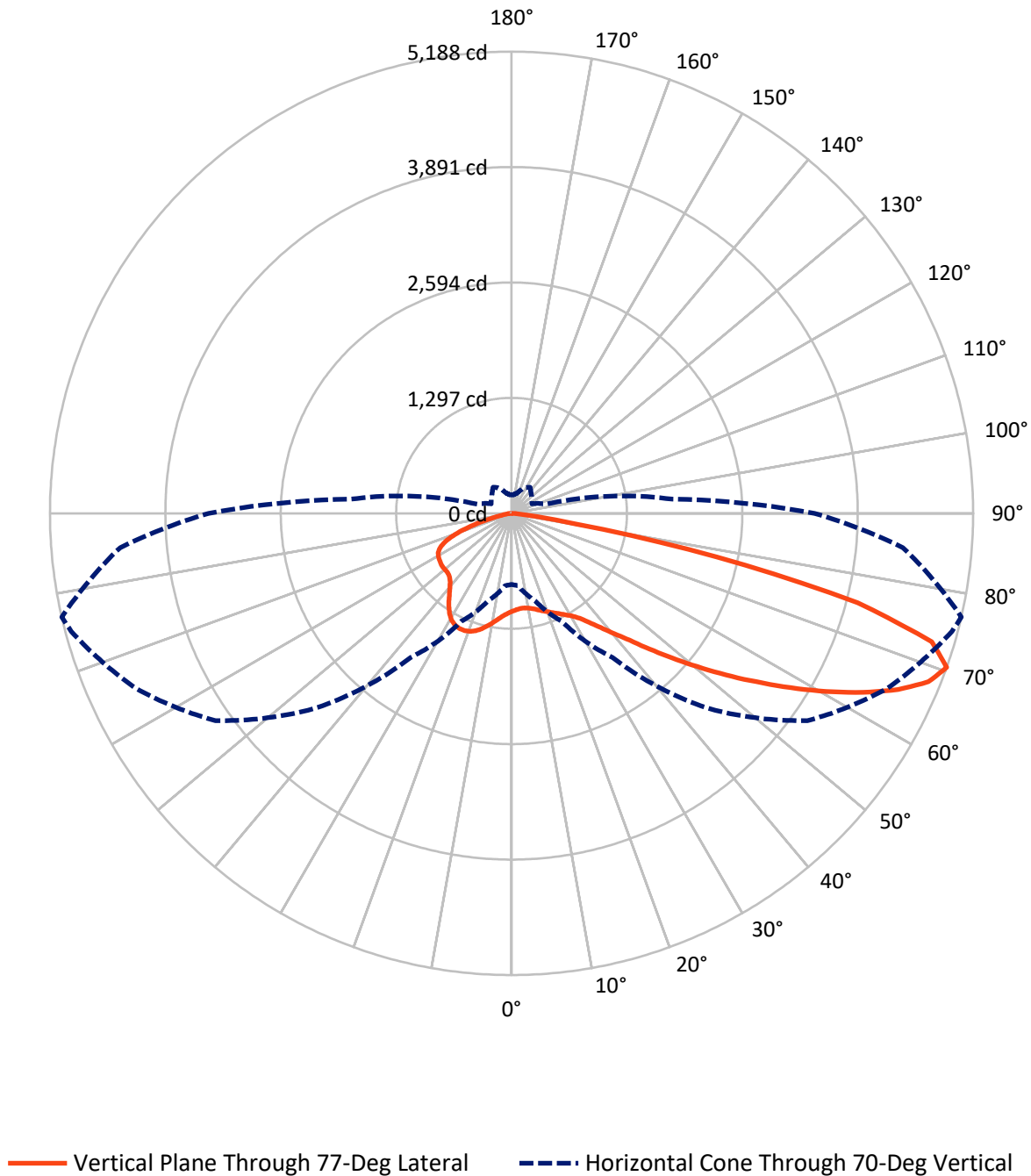
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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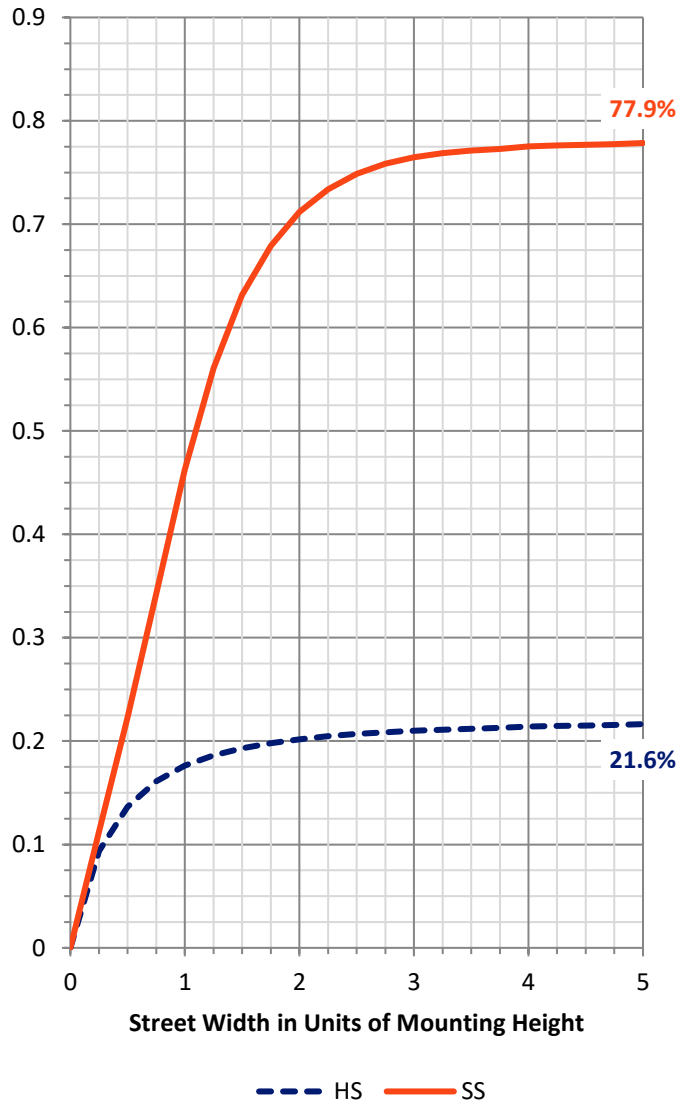
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.3	0.0	1726.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6157.0	0.0	6157.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	7883.3	0.0	7883.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.3
10°-20°	302.7	3.8
20°-30°	517.7	6.6
30°-40°	832.5	10.6
40°-50°	1299.8	16.5
50°-60°	1736.2	22.0
60°-70°	1850.5	23.5
70°-80°	1139.2	14.5
80°-90°	99.8	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°	7883.3	100.0
0°-180°	7883.3	100.0

Coefficient of Utilization



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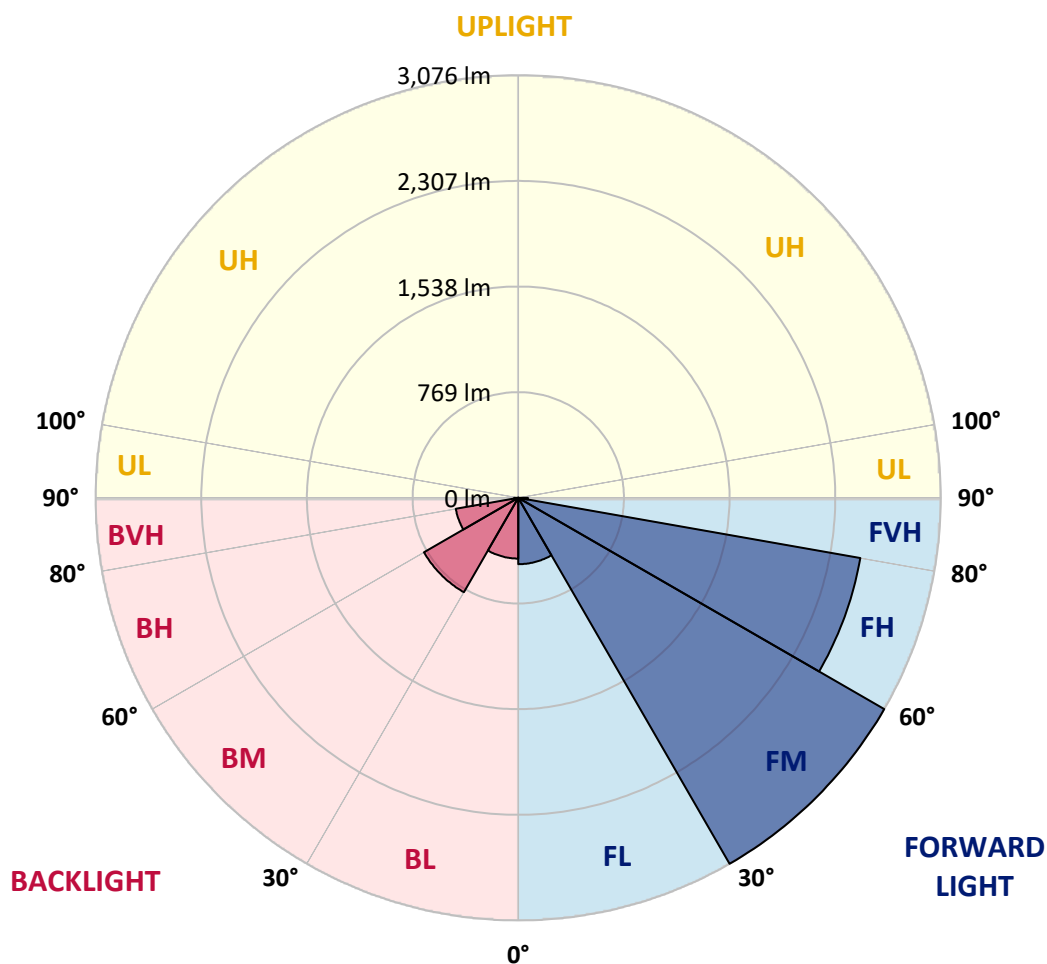
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.0	6.1			
FM	(30°-60°)	3075.9	39.0			
FH	(60°-80°)	2528.3	32.1			G2/5000
FVH	(80°-90°)	69.8	0.9			G1/100
BL	(0°-30°)	442.3	5.6	B1/500		
BM	(30°-60°)	792.6	10.1	B1/1000		
BH	(60°-80°)	461.4	5.9	B1/500		G1/500
BVH	(80°-90°)	30.0	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8
2.5°	1013.8	1013.4	1018.6	1020.3	1029.9	1036.8	1049.7	1063.4	1081.2	1083.2	1094.2
5°	955.3	955.3	961.3	967.8	980.3	994.0	1013.8	1037.6	1068.3	1073.2	1100.2
7.5°	905.6	908.9	914.1	926.6	941.2	960.9	991.2	1025.1	1065.5	1073.2	1116.7
10°	865.6	869.3	875.8	885.8	907.6	935.1	974.7	1018.2	1072.4	1084.4	1140.9
12.5°	853.1	856.7	860.4	868.1	888.3	920.6	967.8	1021.4	1088.9	1101.0	1174.0
15°	882.2	886.6	883.8	881.8	892.3	921.8	971.0	1033.2	1109.5	1126.9	1214.8
17.5°	949.1	950.8	944.3	925.4	923.7	939.5	986.4	1049.3	1135.3	1154.3	1256.0
20°	1057.4	1054.5	1041.3	1003.7	982.3	979.1	1012.6	1073.6	1161.9	1182.1	1300.4
22.5°	1204.4	1201.1	1174.4	1115.1	1067.5	1036.0	1050.5	1105.1	1191.9	1214.4	1343.7
25°	1387.6	1383.2	1344.1	1263.3	1189.4	1111.5	1102.2	1146.7	1228.6	1249.6	1388.9
27.5°	1601.7	1598.0	1555.6	1449.0	1342.4	1214.8	1166.4	1195.5	1266.9	1290.8	1439.7
30°	1831.8	1842.2	1767.2	1652.5	1517.6	1349.7	1252.9	1255.6	1316.6	1338.0	1501.5
32.5°	2102.3	2120.4	2030.0	1884.7	1700.6	1496.3	1361.8	1339.6	1388.9	1406.6	1579.4
35°	2370.3	2390.9	2315.9	2155.2	1943.2	1669.1	1475.7	1436.1	1484.9	1504.3	1682.7
37.5°	2602.1	2629.5	2590.8	2451.1	2202.8	1877.4	1624.2	1549.6	1603.2	1627.5	1821.6
40°	2785.0	2827.0	2824.2	2737.0	2508.9	2130.2	1812.8	1689.6	1750.2	1776.4	1990.0
42.5°	2933.5	2969.9	3001.4	2997.0	2828.2	2417.2	2034.4	1871.8	1917.8	1948.0	2179.4
45°	3036.2	3074.9	3142.8	3215.8	3135.5	2724.4	2288.4	2087.7	2129.7	2175.4	2405.1
47.5°	3127.8	3171.8	3259.8	3375.6	3396.2	3032.9	2566.6	2339.3	2377.6	2424.8	2631.6
50°	3135.9	3173.8	3310.2	3474.5	3581.6	3329.2	2865.4	2621.4	2657.4	2707.8	2874.2
52.5°	2940.8	3000.6	3238.8	3471.8	3666.7	3577.1	3162.1	2915.0	2955.4	3016.0	3125.3
55°	2282.8	2370.3	3029.3	3363.5	3636.5	3737.5	3444.3	3227.1	3278.8	3342.1	3378.1
57.5°	1966.3	2004.6	2404.6	3166.5	3498.4	3779.0	3682.5	3542.4	3625.6	3695.0	3645.4
60°	1767.2	1799.1	2035.6	2860.1	3316.7	3713.2	3866.6	3836.4	3980.1	4062.8	3918.7
62.5°	1554.0	1584.2	1799.5	2388.1	3084.1	3603.8	3982.9	4107.7	4343.4	4433.8	4176.3
65°	1342.4	1368.3	1574.6	2006.5	2788.6	3494.3	4043.0	4342.2	4679.7	4773.4	4390.3
67.5°	1106.7	1128.0	1323.1	1692.9	2429.4	3344.6	4072.9	4526.7	4972.5	5052.8	4496.1
70°	798.6	815.2	1016.6	1338.8	1978.4	3087.0	4060.8	4657.6	5124.3	5188.4	4416.1
72.5°	377.5	392.5	629.0	869.3	1397.4	2585.6	3815.8	4553.8	4970.0	4938.1	3926.8
75°	201.5	214.4	361.3	476.8	738.0	1772.4	3122.6	3922.8	4173.5	4018.4	2902.1
77.5°	136.4	146.6	223.7	286.3	337.1	841.4	2007.0	2715.9	2613.0	2357.0	1453.4
80°	108.2	118.7	183.3	193.8	163.1	304.0	829.3	1257.3	903.1	722.3	413.4
82.5°	83.1	94.9	154.3	140.5	88.9	124.7	241.4	397.7	231.3	176.0	100.1
85°	50.8	63.3	121.2	89.6	50.0	56.9	82.0	110.6	70.6	58.9	36.0
87.5°	25.8	36.4	61.4	32.7	22.7	13.3	21.8	21.8	18.6	16.2	9.3
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°	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8	1099.8
2.5°	1103.8	1111.9	1125.7	1138.6	1148.6	1158.4	1168.0	1173.3	1174.9	1181.3	1185.0
5°	1116.7	1131.7	1158.4	1183.4	1199.1	1208.8	1215.6	1219.8	1220.5	1222.5	1225.8
7.5°	1140.5	1164.4	1201.5	1226.5	1238.3	1237.5	1234.6	1224.6	1220.5	1216.9	1217.7
10°	1174.0	1205.6	1251.2	1268.5	1261.3	1241.9	1216.9	1187.4	1173.6	1160.3	1156.3
12.5°	1215.6	1255.6	1300.4	1299.6	1263.7	1214.0	1155.9	1110.7	1082.0	1061.4	1056.6
15°	1266.1	1312.2	1346.4	1319.0	1240.2	1151.1	1065.9	1007.0	981.1	958.5	956.0
17.5°	1318.3	1367.5	1383.2	1312.9	1181.3	1057.8	961.3	914.9	889.4	877.3	881.0
20°	1369.1	1418.0	1405.0	1278.3	1091.7	952.0	866.0	840.6	835.4	838.1	836.9
22.5°	1422.8	1466.4	1409.5	1211.2	977.4	843.8	796.6	797.3	809.1	817.5	819.6
25°	1477.6	1507.2	1397.8	1114.3	854.7	764.2	752.6	765.5	788.5	805.0	809.5
27.5°	1530.5	1543.5	1372.3	994.5	749.4	707.4	709.4	736.1	770.7	793.8	799.4
30°	1590.3	1575.8	1323.5	859.6	676.3	658.5	675.5	706.5	741.3	761.9	766.7
32.5°	1657.7	1603.6	1246.0	734.8	624.6	619.3	647.2	667.4	682.8	688.8	692.0
35°	1741.8	1642.9	1146.7	647.2	578.2	590.7	617.4	607.2	601.2	598.0	601.2
37.5°	1850.7	1695.8	1030.3	590.3	540.6	570.1	581.0	549.5	525.6	513.9	516.8
40°	1981.9	1773.2	918.5	546.2	516.8	552.3	533.3	495.4	465.1	448.5	449.8
42.5°	2127.7	1854.4	824.4	513.1	503.5	537.8	498.3	452.9	404.2	398.9	404.2
45°	2280.7	1938.0	760.2	487.7	497.0	525.3	478.1	405.0	370.2	391.7	402.9
47.5°	2433.8	2014.6	721.5	468.7	493.7	511.2	460.2	378.3	353.7	384.8	399.3
50°	2604.1	2083.3	704.1	455.0	490.2	505.5	433.6	371.5	336.3	356.9	372.3
52.5°	2773.3	2136.6	691.2	441.3	484.9	501.0	420.7	363.4	315.3	316.5	325.0
55°	2942.1	2171.4	677.1	423.1	473.1	491.4	419.5	354.4	299.6	294.0	298.0
57.5°	3122.1	2191.1	659.7	402.9	452.9	466.7	418.3	347.6	294.7	285.5	286.7
60°	3305.4	2220.1	637.1	378.3	426.0	437.3	415.4	345.2	291.9	276.1	277.4
62.5°	3469.7	2230.3	610.1	354.9	391.2	408.2	409.4	343.2	284.2	257.2	257.2
65°	3577.6	2186.6	562.8	328.2	353.7	378.3	397.7	336.3	270.5	243.4	243.4
67.5°	3573.2	2062.3	488.9	294.0	317.3	345.2	380.7	324.6	254.0	226.5	227.8
70°	3406.8	1816.8	395.2	254.0	277.4	309.7	359.0	307.3	234.2	208.0	210.3
72.5°	2921.9	1422.0	287.1	207.2	230.9	273.0	330.7	286.3	214.0	191.4	190.1
75°	2087.3	900.0	194.6	159.1	179.7	231.3	295.5	261.6	195.4	192.2	181.3
77.5°	1066.3	430.0	128.8	116.2	125.2	182.4	248.3	233.8	198.2	158.7	141.3
80°	346.9	158.7	81.2	79.1	83.1	121.6	192.2	191.8	150.2	107.8	95.3
82.5°	110.6	68.3	52.9	50.8	48.9	76.3	134.1	151.8	101.4	68.3	67.9
85°	44.0	40.8	31.1	28.7	20.6	36.0	70.2	101.0	75.5	49.3	50.4
87.5°	16.2	16.2	8.5	6.0	4.4	12.1	19.0	30.2	43.2	25.4	25.0
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)