

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: P971549

Luminaire Tested: **NAV-SB6D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45789.8 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 440.1
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

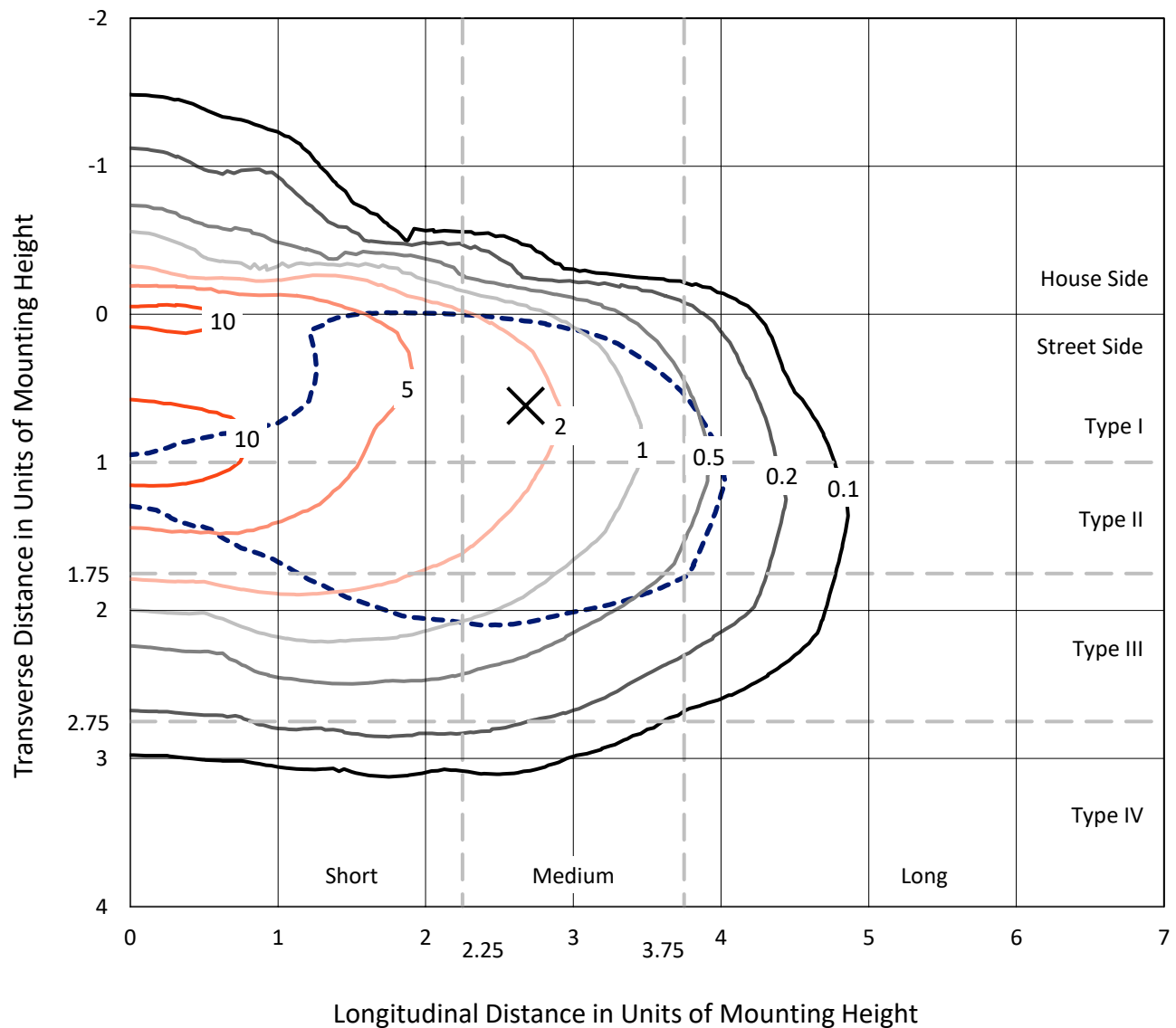


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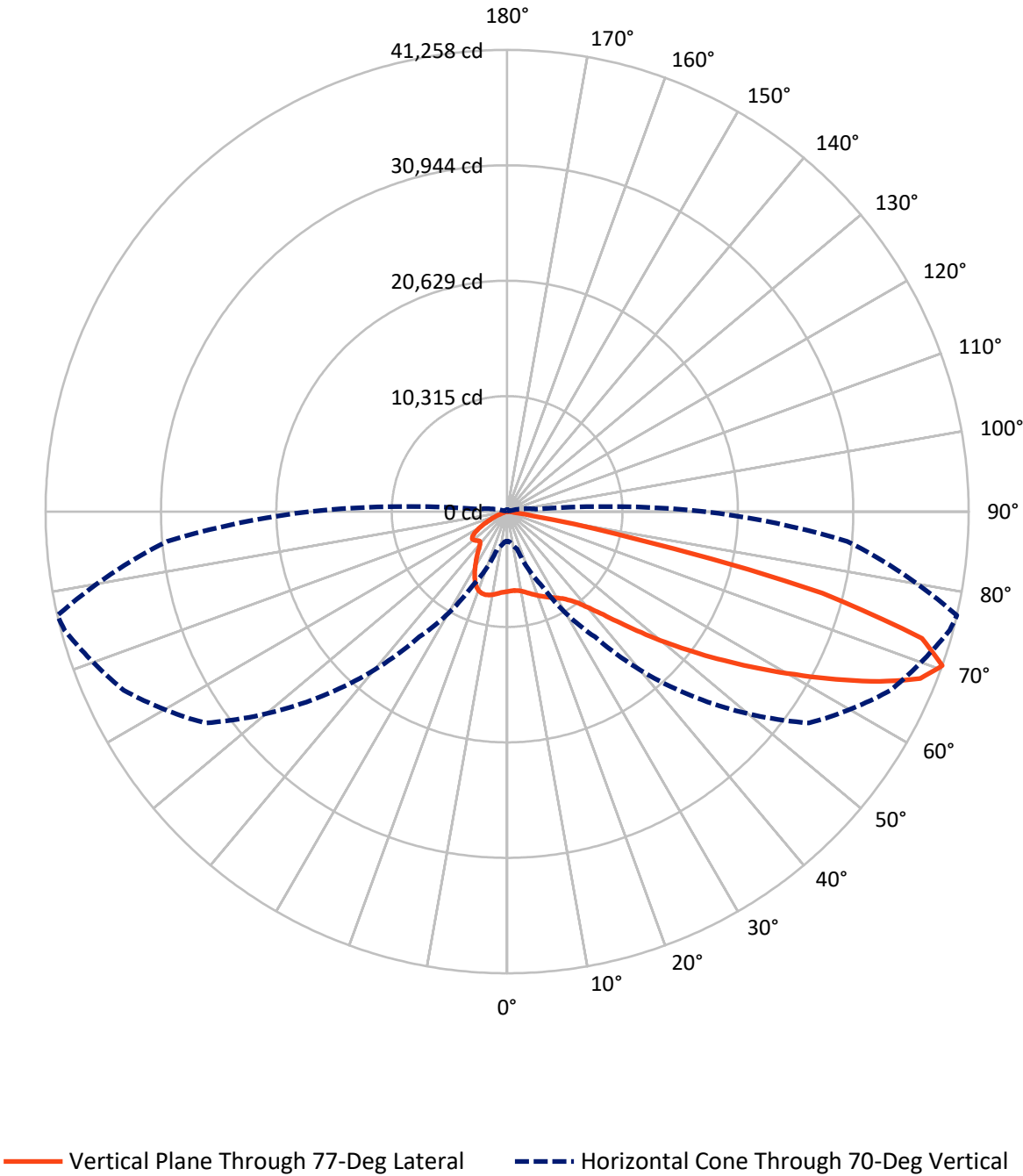
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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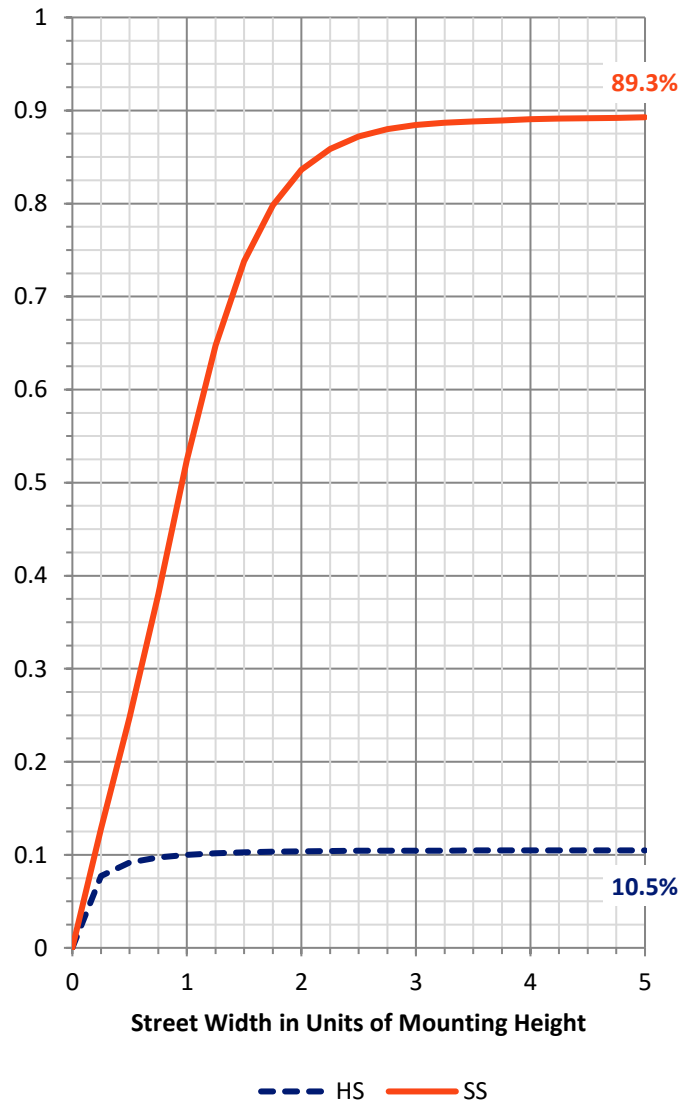
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4826.9	0.0	4826.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	40962.9	0.0	40962.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	45789.8	0.0	45789.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.6	1.3
10°-20°	1461.3	3.2
20°-30°	2260.2	4.9
30°-40°	4101.2	9.0
40°-50°	7741.5	16.9
50°-60°	11185.9	24.4
60°-70°	11907.1	26.0
70°-80°	6309.9	13.8
80°-90°	207.2	0.5
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°	45789.8	100.0
0°-180°	45789.8	100.0

Coefficient of Utilization



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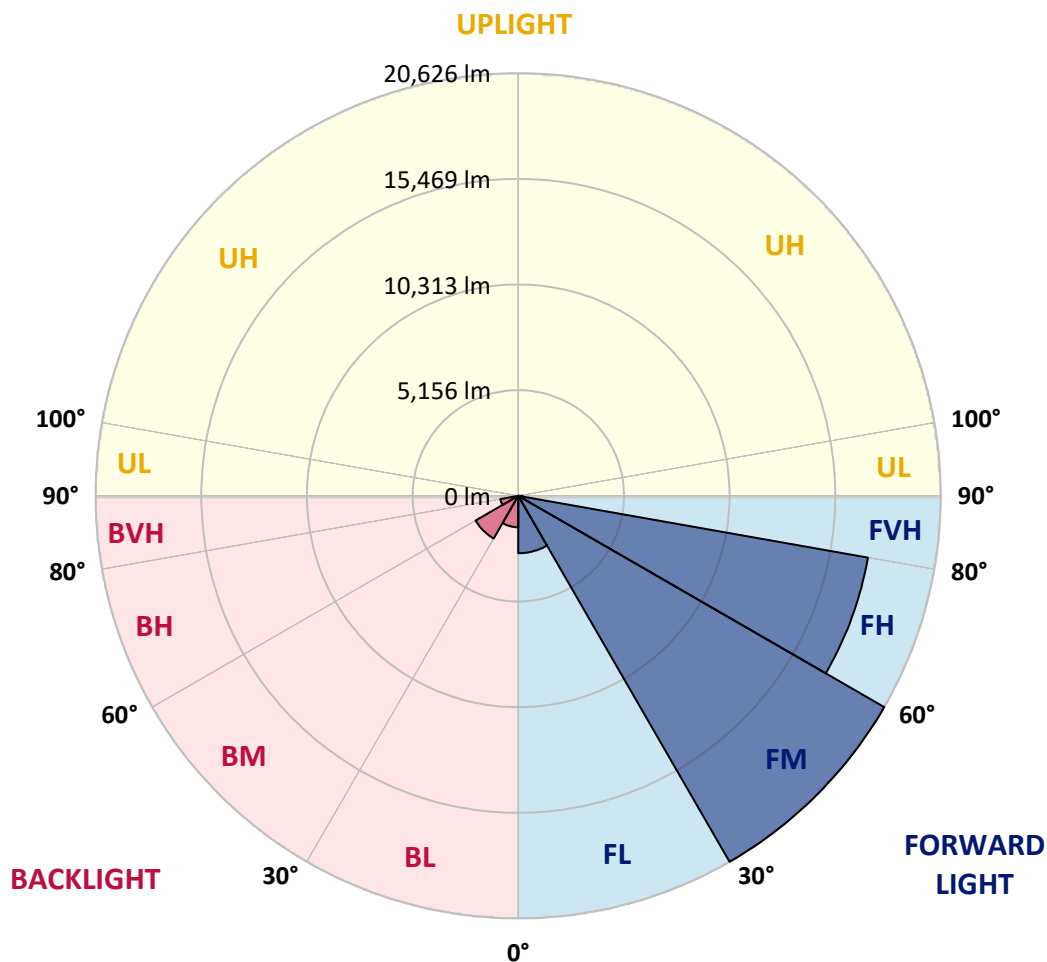
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2803.4	6.1			
FM	(30°-60°)	20625.8	45.0			
FH	(60°-80°)	17332.1	37.9			G5
FVH	(80°-90°)	201.6	0.4			G2/225
BL	(0°-30°)	1533.6	3.3	B3/2500		
BM	(30°-60°)	2402.9	5.2	B2/2500		
BH	(60°-80°)	884.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4
2.5°	6705.8	6766.4	6757.8	6798.3	6812.8	6870.6	6928.4	7006.5	7093.2	7090.3	7148.1
5°	6326.9	6387.7	6402.2	6457.1	6526.5	6616.1	6734.7	6890.8	7052.7	7078.8	7194.5
7.5°	5878.7	5942.3	5980.0	6089.8	6217.0	6402.2	6595.9	6824.3	7093.2	7130.8	7353.5
10°	5430.6	5488.4	5537.6	5693.7	5896.1	6170.8	6486.0	6815.6	7177.0	7232.0	7547.2
12.5°	5152.9	5207.8	5262.8	5398.7	5650.3	5985.7	6413.7	6856.1	7315.8	7393.9	7810.4
15°	5054.6	5103.8	5147.1	5268.6	5502.8	5884.5	6399.3	6940.0	7492.2	7596.4	8128.5
17.5°	5069.0	5095.1	5124.0	5216.5	5445.0	5838.3	6425.2	7084.6	7700.5	7793.0	8446.5
20°	5152.9	5167.4	5170.3	5233.9	5436.3	5832.5	6477.3	7223.4	7897.1	8021.4	8761.7
22.5°	5259.9	5265.7	5259.9	5303.2	5491.2	5875.8	6546.7	7391.1	8116.9	8232.5	9079.8
25°	5760.2	5650.3	5511.5	5427.7	5583.8	5959.7	6650.8	7616.6	8356.9	8469.7	9389.2
27.5°	7313.0	6997.8	6500.4	5942.3	5774.6	6081.1	6795.3	7845.0	8599.8	8701.0	9721.7
30°	9834.5	9421.0	8576.7	7318.8	6387.7	6335.6	6983.3	8073.5	8857.1	8967.0	10077.4
32.5°	12361.8	12260.6	11286.2	9545.3	7766.9	6902.4	7295.6	8382.9	9198.3	9285.1	10557.4
35°	14918.1	14712.7	13914.7	12194.1	9892.4	8056.2	7816.1	8787.7	9646.6	9744.9	11257.2
37.5°	16875.7	16751.4	16256.9	14840.0	12413.9	9837.4	8706.8	9415.2	10297.2	10407.0	12153.6
40°	18604.9	18547.1	18379.4	17445.4	15233.2	12168.1	10091.8	10386.8	11199.4	11329.5	13252.4
42.5°	19964.0	20099.8	20195.3	19935.0	18139.3	14828.4	11954.1	11751.7	12457.2	12590.3	14652.0
45°	21354.8	21401.2	21785.8	22161.6	21025.2	17610.2	14053.5	13350.7	14021.6	14186.4	16329.2
47.5°	22248.3	22433.5	23110.1	23772.3	23451.3	20368.8	16309.0	15239.0	15834.7	16144.1	18208.7
50°	22314.9	22664.8	23595.9	24749.6	25218.1	22994.4	18761.1	17390.5	18023.7	18364.9	20215.6
52.5°	21207.4	21751.0	23194.0	24882.7	26172.4	25218.1	21297.0	19541.8	20354.3	20799.7	22297.5
55°	16259.8	16971.1	21681.6	24159.8	26210.0	26904.0	23766.5	21782.8	22951.1	23454.3	24547.2
57.5°	14166.2	14524.8	17046.3	22904.8	25513.1	27583.5	25998.8	23916.8	25776.2	26400.8	26672.7
60°	11786.4	12257.8	14296.3	20851.7	24567.5	27650.0	27971.0	26669.7	28838.5	29541.1	28621.6
62.5°	8009.9	8521.7	10548.8	17323.9	23274.9	27618.2	29587.4	29503.5	32242.0	32996.7	30272.8
65°	4962.1	5283.1	6619.0	14145.9	21467.6	27652.9	31279.0	32944.6	35833.4	36599.7	31550.8
67.5°	3921.0	4068.5	4765.4	10861.0	18353.3	26872.1	32967.8	36180.3	39213.7	39820.9	31941.3
70°	2634.2	2723.9	3467.1	7281.2	13654.4	23269.1	32935.9	37805.5	40954.5	41258.1	30518.6
72.5°	1388.0	1457.3	2027.0	3371.6	8247.0	16540.2	27762.7	35862.3	39222.4	38765.5	26085.6
75°	694.0	809.6	1364.9	1711.9	3522.0	9224.4	17240.1	28274.6	30871.3	29101.6	16736.9
77.5°	526.2	636.1	1127.7	1127.7	1226.1	3105.6	7301.4	15421.2	14224.0	11844.2	4912.9
80°	335.5	433.8	986.0	853.0	511.8	789.5	1902.7	4320.2	3021.8	2298.9	893.5
82.5°	196.6	283.4	821.2	563.9	286.3	292.0	537.8	919.5	783.6	610.2	274.7
85°	78.1	185.1	563.9	222.6	112.7	72.3	162.0	196.6	162.0	121.5	69.4
87.5°	0.0	43.4	98.3	0.0	8.7	5.7	11.6	14.5	14.5	11.6	23.2
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°	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4	7142.4
2.5°	7174.2	7180.0	7197.3	7200.2	7159.7	7107.7	7087.5	7078.8	7044.1	7041.1	7047.0
5°	7260.9	7286.9	7260.9	7185.8	7006.5	6755.0	6564.1	6407.9	6266.2	6222.9	6196.8
7.5°	7434.4	7460.5	7382.4	7087.5	6636.4	6136.1	5685.0	5366.9	5080.6	4973.6	4930.2
10°	7683.1	7717.8	7472.0	6876.3	6078.2	5274.3	4511.0	3973.1	3553.9	3383.2	3311.0
12.5°	7995.4	8009.9	7521.1	6555.4	5352.4	4204.4	3123.0	2547.5	2174.5	2035.8	1992.4
15°	8339.5	8319.3	7527.0	6118.7	4363.5	2972.6	2038.6	1674.2	1523.9	1477.6	1477.6
17.5°	8701.0	8617.2	7411.3	5488.4	3279.2	2032.9	1512.3	1425.6	1399.5	1388.0	1385.1
20°	9056.7	8868.7	7200.2	4664.3	2353.8	1518.1	1373.5	1347.5	1333.0	1327.3	1321.5
22.5°	9380.5	9059.6	6838.8	3707.1	1709.0	1341.7	1298.4	1275.2	1249.2	1237.6	1234.7
25°	9695.7	9169.4	6329.8	2813.6	1367.8	1255.0	1220.3	1176.9	1142.2	1127.7	1122.0
27.5°	10002.3	9238.8	5693.7	2082.0	1220.3	1174.0	1110.4	1049.7	1023.7	1017.8	1012.1
30°	10329.0	9262.0	4970.7	1552.8	1130.7	1072.8	980.3	910.9	896.4	899.3	899.3
32.5°	10728.1	9296.6	4242.1	1272.3	1055.4	951.4	841.4	769.2	757.6	769.2	766.3
35°	11205.2	9366.0	3539.4	1171.2	988.9	827.0	708.5	647.7	636.1	644.8	642.0
37.5°	11852.9	9478.9	2883.0	1150.9	934.0	722.9	595.7	546.5	546.5	549.4	546.5
40°	12714.6	9779.5	2296.0	1136.4	905.1	644.8	503.2	482.9	491.6	497.3	497.3
42.5°	13764.3	10418.6	1899.8	1119.1	873.3	610.2	456.8	448.2	462.7	468.4	468.4
45°	14941.2	11228.3	1761.1	1090.2	844.4	633.2	436.6	425.1	442.4	445.4	448.2
47.5°	16158.6	12020.6	1743.6	1058.3	815.5	668.0	430.8	404.9	425.1	427.9	430.8
50°	17390.5	12538.2	1761.1	1009.2	769.2	668.0	433.8	384.6	401.9	410.6	413.5
52.5°	18630.9	12775.3	1749.5	902.2	688.2	627.5	433.8	367.3	384.6	390.4	390.4
55°	19833.9	12729.1	1573.1	743.1	584.1	555.2	422.2	352.8	364.4	367.3	367.3
57.5°	20785.3	12084.2	1246.3	578.3	474.3	462.7	384.6	335.5	344.1	341.2	341.2
60°	21282.6	10667.3	890.6	445.4	373.0	364.4	338.4	312.3	318.1	303.6	300.7
62.5°	21288.3	8793.5	595.7	352.8	297.9	289.2	289.2	280.4	274.7	245.8	237.1
65°	20834.4	6714.5	396.2	280.4	240.1	225.5	242.9	240.1	219.8	179.3	173.5
67.5°	19804.9	4401.1	300.7	219.8	185.1	176.4	193.7	202.4	188.0	150.4	147.5
70°	17688.2	2562.0	248.7	170.6	138.8	130.2	156.1	173.5	156.1	121.5	115.6
72.5°	14692.5	1382.2	202.4	127.2	95.4	86.7	124.3	141.7	124.3	89.7	86.7
75°	9533.8	740.3	156.1	83.8	49.2	54.9	92.6	104.1	86.7	57.8	52.1
77.5°	3201.1	326.8	98.3	40.5	23.2	23.2	54.9	63.7	40.5	20.2	17.3
80°	714.2	135.9	40.5	17.3	8.7	8.7	11.6	11.6	5.7	0.0	0.0
82.5°	234.2	54.9	17.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	89.7	20.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.7	2.9	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)