

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: P971580

Luminaire Tested: **NAV-SB6D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971580
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-830-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 47316.1 lumens
Efficiency: N/A
Efficacy: 107.5 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



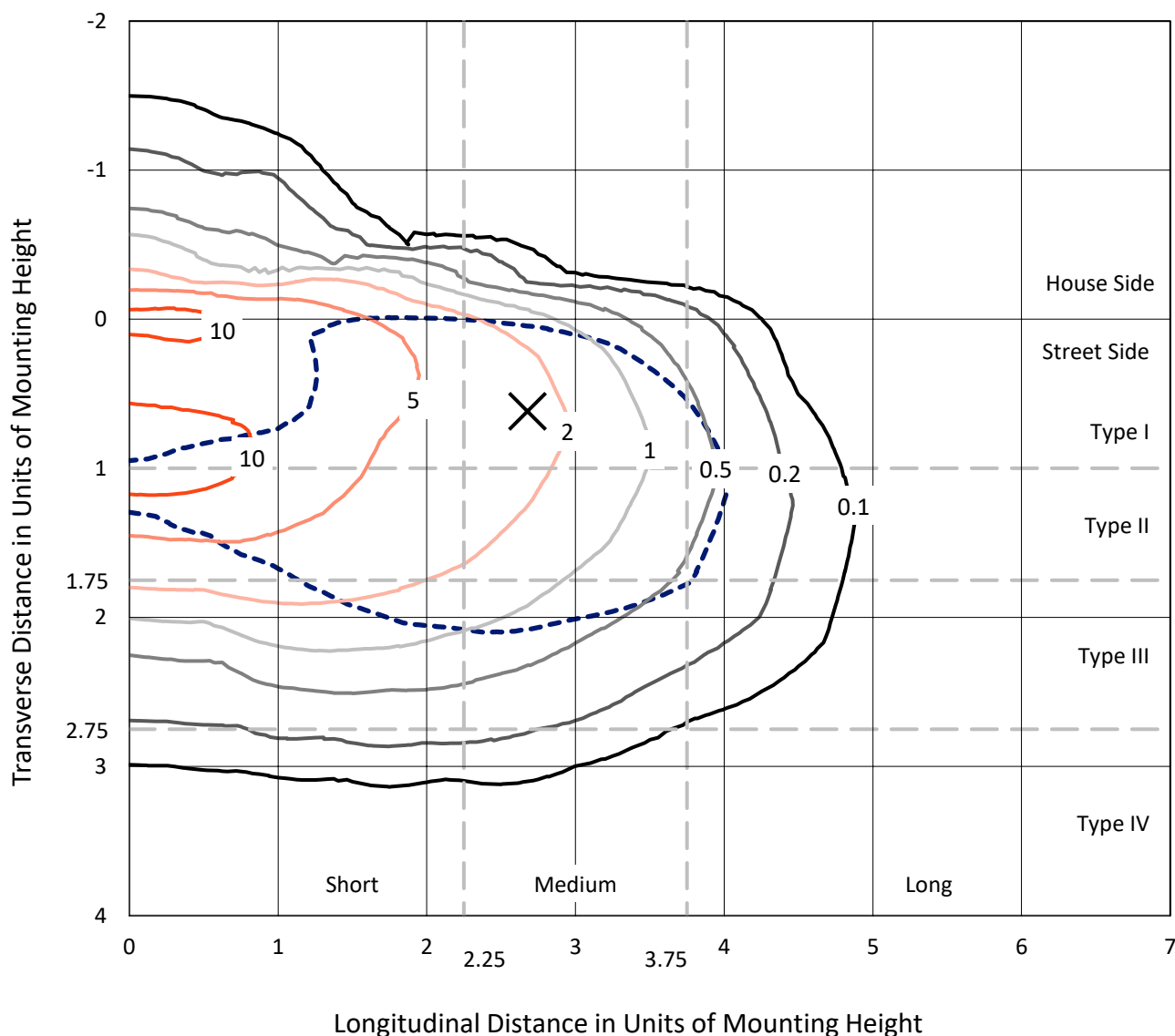
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

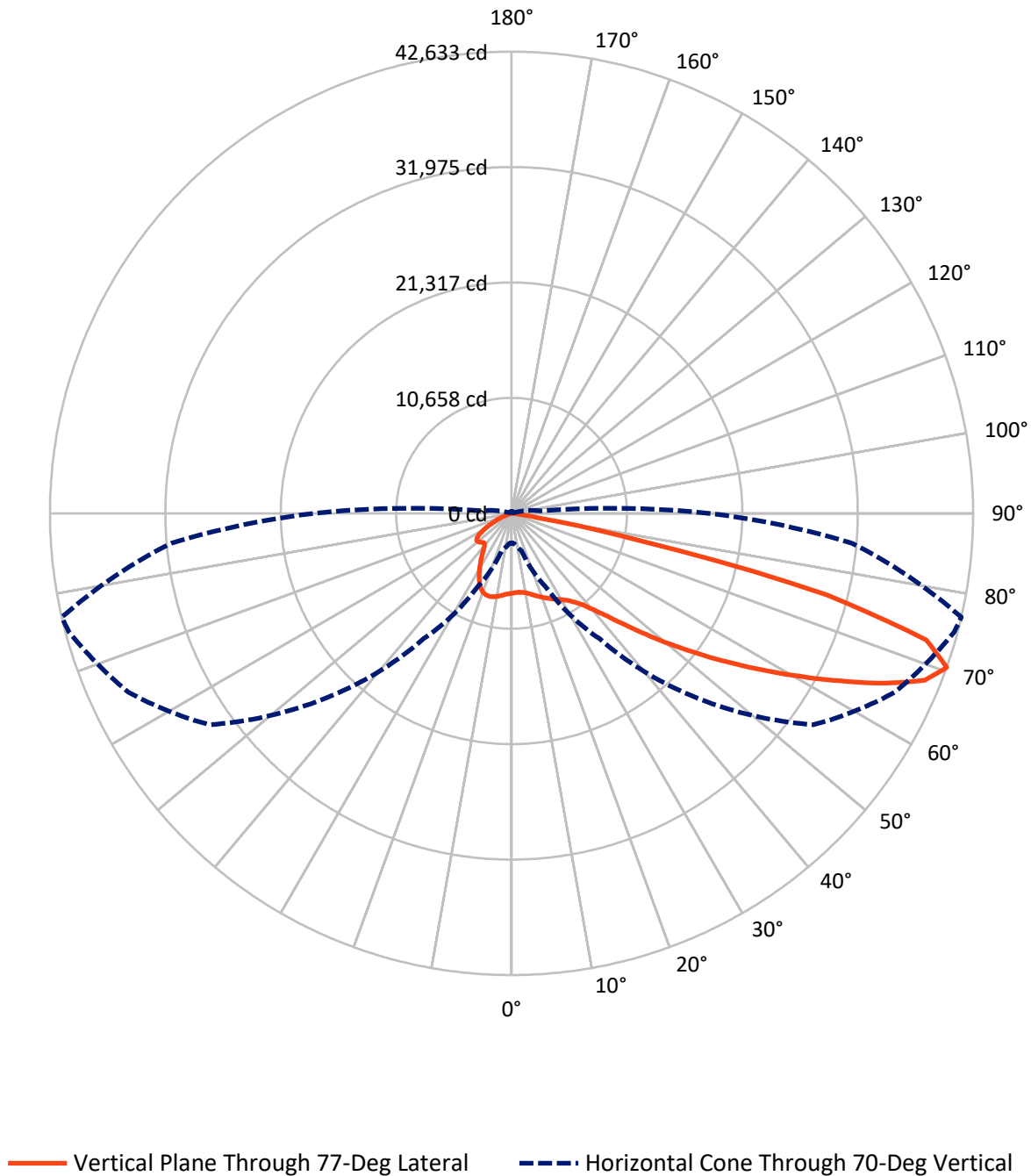
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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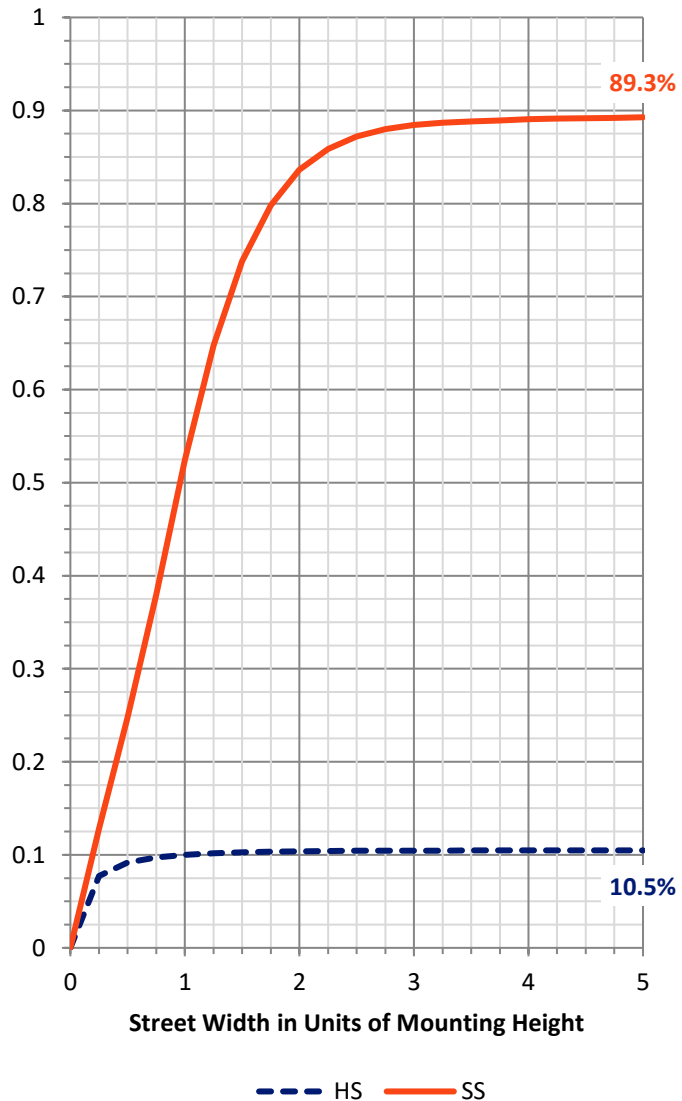
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4987.8	0.0	4987.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	42328.3	0.0	42328.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	47316.1	0.0	47316.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.1	1.3
10°-20°	1510.0	3.2
20°-30°	2335.5	4.9
30°-40°	4237.9	9.0
40°-50°	7999.6	16.9
50°-60°	11558.7	24.4
60°-70°	12303.9	26.0
70°-80°	6520.2	13.8
80°-90°	214.1	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°	47316.1	100.0
0°-180°	47316.1	100.0

Coefficient of Utilization



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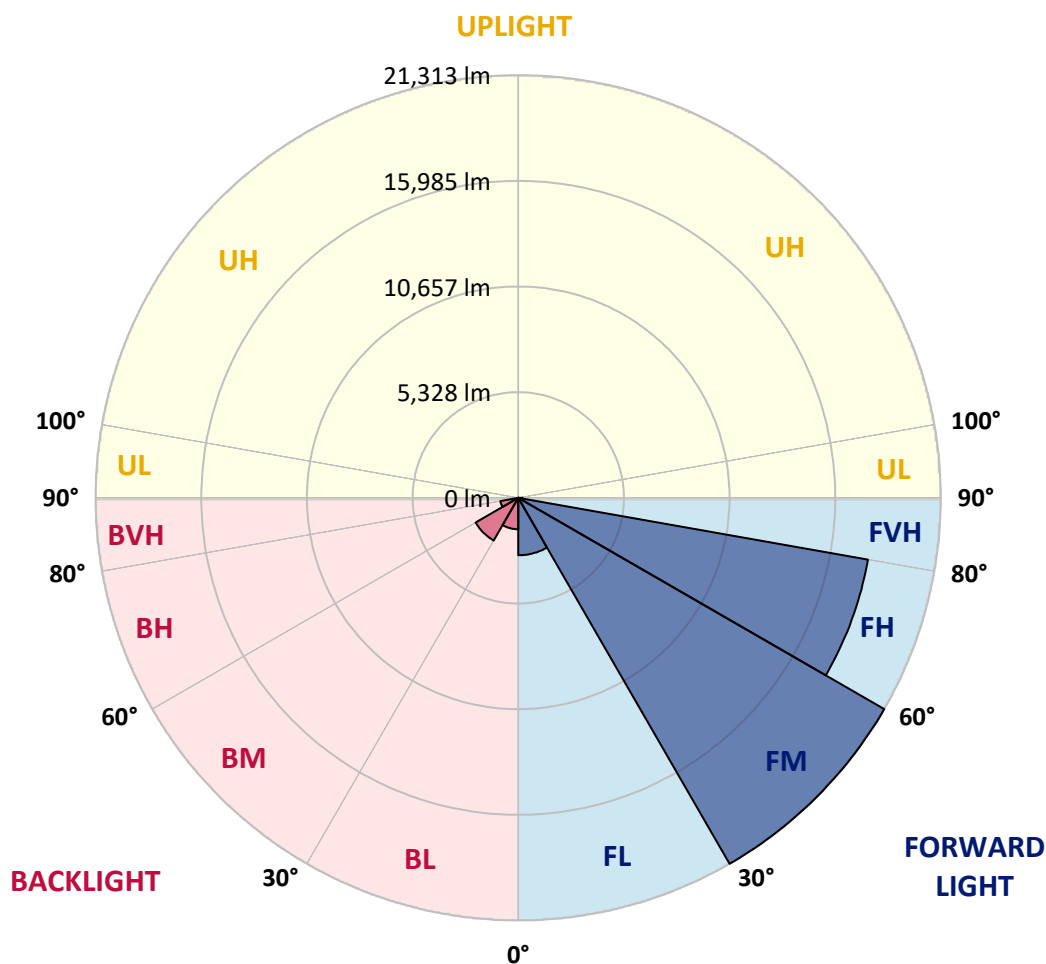
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2896.9	6.1			
FM	(30°-60°)	21313.3	45.0			
FH	(60°-80°)	17909.8	37.9			G5
FVH	(80°-90°)	208.3	0.4			G2/225
BL	(0°-30°)	1584.7	3.3	B3/2500		
BM	(30°-60°)	2482.9	5.2	B2/2500		
BH	(60°-80°)	914.4	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.8	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°	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4
2.5°	6929.2	6992.0	6983.0	7024.8	7039.8	7099.6	7159.3	7240.0	7329.7	7326.7	7386.5
5°	6537.9	6600.6	6615.6	6672.2	6744.0	6836.6	6959.1	7120.5	7287.9	7314.7	7434.2
7.5°	6074.7	6140.4	6179.2	6292.8	6424.3	6615.6	6815.7	7051.8	7329.7	7368.5	7598.5
10°	5611.6	5671.3	5722.1	5883.4	6092.6	6376.4	6702.2	7042.8	7416.3	7473.1	7798.8
12.5°	5324.7	5381.5	5438.2	5578.7	5838.6	6185.3	6627.4	7084.6	7559.7	7640.5	8070.6
15°	5223.1	5273.9	5318.7	5444.2	5686.2	6080.6	6612.5	7171.3	7742.0	7849.6	8399.4
17.5°	5238.1	5264.9	5294.8	5390.4	5626.4	6032.8	6639.4	7320.7	7957.2	8052.7	8728.1
20°	5324.7	5339.6	5342.6	5408.3	5617.5	6026.9	6693.2	7464.2	8160.3	8288.8	9053.7
22.5°	5435.3	5441.2	5435.3	5480.1	5674.3	6071.7	6764.9	7637.4	8387.4	8507.0	9382.4
25°	5952.2	5838.6	5695.2	5608.6	5769.9	6158.3	6872.5	7870.5	8635.4	8752.0	9702.1
27.5°	7556.7	7231.1	6717.1	6140.4	5967.1	6283.9	7021.9	8106.5	8886.4	8991.0	10045.8
30°	10162.3	9735.0	8862.6	7562.8	6600.6	6546.8	7216.1	8342.6	9152.3	9265.9	10413.3
32.5°	12773.9	12669.3	11662.3	9863.5	8025.9	7132.5	7538.8	8662.3	9504.9	9594.6	10909.3
35°	15415.3	15203.1	14378.4	12600.5	10222.1	8324.6	8076.7	9080.7	9968.1	10069.7	11632.4
37.5°	17438.2	17309.7	16798.7	15334.6	12827.7	10165.3	8996.9	9729.1	10640.4	10754.0	12558.7
40°	19225.0	19165.2	18991.9	18026.8	15740.9	12573.7	10428.2	10733.0	11572.7	11707.1	13694.2
42.5°	20629.4	20769.9	20868.5	20599.5	18744.0	15322.6	12352.6	12143.4	12872.5	13009.9	15140.4
45°	22066.6	22114.5	22511.9	22900.3	21726.0	18197.1	14521.9	13795.8	14489.0	14659.3	16873.4
47.5°	22989.9	23181.2	23880.3	24564.6	24232.9	21047.8	16852.5	15747.0	16362.5	16682.2	18815.6
50°	23058.7	23420.2	24382.4	25574.6	26058.7	23760.8	19386.3	17970.1	18624.5	18977.1	20889.4
52.5°	21914.3	22476.0	23967.1	25712.0	27044.7	26058.7	22006.9	20193.1	21032.8	21492.9	23040.8
55°	16801.7	17536.8	22404.2	24965.0	27083.6	27800.7	24558.7	22508.9	23716.0	24235.9	25365.5
57.5°	14638.4	15008.9	17614.5	23668.3	26363.4	28502.9	26865.5	24714.1	26635.3	27280.8	27561.6
60°	12179.3	12666.3	14772.8	21546.7	25386.4	28571.6	28903.3	27558.7	29799.7	30525.7	29575.6
62.5°	8276.9	8805.8	10900.4	17901.3	24050.7	28538.8	30573.6	30486.9	33316.6	34096.5	31281.8
65°	5127.5	5459.2	6839.6	14617.4	22183.2	28574.5	32321.6	34042.7	37027.7	37819.5	32602.5
67.5°	4051.8	4204.1	4924.3	11223.0	18965.1	27767.9	34066.6	37386.3	40520.7	41148.2	33005.8
70°	2722.1	2814.8	3582.7	7523.9	14109.5	24044.8	34033.7	39065.6	42319.6	42633.3	31535.8
72.5°	1434.3	1505.9	2094.6	3484.1	8521.8	17091.6	28688.1	37057.6	40529.7	40057.6	26955.0
75°	717.1	836.6	1410.4	1768.9	3639.5	9531.9	17814.7	29217.0	31900.3	30071.6	17294.7
77.5°	543.9	657.3	1165.3	1165.3	1266.9	3209.2	7544.8	15935.2	14698.2	12239.0	5076.7
80°	346.7	448.2	1019.0	881.5	528.9	815.7	1966.2	4464.1	3122.5	2375.4	923.3
82.5°	203.2	292.8	848.6	582.7	295.8	301.8	555.8	950.2	809.7	630.5	283.8
85°	80.7	191.3	582.7	230.1	116.5	74.7	167.3	203.2	167.3	125.5	71.8
87.5°	0.0	44.8	101.6	0.0	8.9	5.9	12.0	15.0	15.0	12.0	23.9
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°	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4	7380.4
2.5°	7413.3	7419.3	7437.2	7440.2	7398.3	7344.6	7323.7	7314.7	7278.8	7275.9	7281.8
5°	7503.0	7529.9	7503.0	7425.3	7240.0	6980.0	6782.8	6621.5	6475.0	6430.2	6403.4
7.5°	7682.3	7709.1	7628.5	7323.7	6857.6	6340.6	5874.5	5545.8	5249.9	5139.5	5094.6
10°	7939.2	7975.1	7721.1	7105.5	6280.9	5450.1	4661.3	4105.5	3672.3	3496.0	3421.3
12.5°	8261.9	8276.9	7771.9	6773.9	5530.9	4344.6	3227.1	2632.5	2247.0	2103.6	2058.7
15°	8617.5	8596.6	7777.9	6322.7	4509.0	3071.7	2106.6	1730.1	1574.7	1526.8	1526.8
17.5°	8991.0	8904.4	7658.3	5671.3	3388.4	2100.6	1562.7	1473.1	1446.2	1434.3	1431.3
20°	9358.6	9164.3	7440.2	4819.7	2432.2	1568.8	1419.3	1392.5	1377.5	1371.6	1365.5
22.5°	9693.2	9361.5	7066.7	3830.6	1766.0	1386.4	1341.6	1317.7	1290.8	1278.9	1275.9
25°	10018.9	9475.1	6540.8	2907.3	1413.4	1296.8	1261.0	1216.2	1180.3	1165.3	1159.4
27.5°	10335.6	9546.7	5883.4	2151.4	1261.0	1213.2	1147.4	1084.7	1057.8	1051.8	1045.8
30°	10673.2	9570.6	5136.5	1604.5	1168.3	1108.5	1012.9	941.3	926.3	929.3	929.3
32.5°	11085.6	9606.5	4383.4	1314.8	1090.6	983.1	869.5	794.8	782.9	794.8	791.8
35°	11578.6	9678.3	3657.4	1210.1	1021.9	854.5	732.1	669.3	657.3	666.4	663.4
37.5°	12247.9	9794.8	2979.1	1189.2	965.1	747.0	615.5	564.8	564.8	567.7	564.8
40°	13138.3	10105.6	2372.5	1174.3	935.2	666.4	519.9	499.0	508.0	513.9	513.9
42.5°	14223.0	10765.9	1963.2	1156.4	902.4	630.5	472.1	463.1	478.1	484.1	484.1
45°	15439.2	11602.6	1819.7	1126.5	872.5	654.4	451.2	439.2	457.2	460.1	463.1
47.5°	16697.1	12421.3	1801.7	1093.6	842.7	690.2	445.3	418.3	439.2	442.2	445.3
50°	17970.1	12956.1	1819.7	1042.8	794.8	690.2	448.2	397.4	415.3	424.4	427.3
52.5°	19252.0	13201.2	1807.8	932.2	711.1	648.4	448.2	379.5	397.4	403.3	403.3
55°	20495.0	13153.3	1625.4	767.9	603.6	573.7	436.2	364.5	376.5	379.5	379.5
57.5°	21478.0	12487.0	1287.8	597.6	490.1	478.1	397.4	346.7	355.6	352.6	352.6
60°	21992.0	11022.8	920.3	460.1	385.5	376.5	349.6	322.7	328.7	313.8	310.8
62.5°	21997.9	9086.6	615.5	364.5	307.8	298.8	298.8	289.9	283.8	254.0	245.0
65°	21528.8	6938.2	409.4	289.9	248.0	233.1	251.0	248.0	227.1	185.2	179.3
67.5°	20465.0	4547.8	310.8	227.1	191.3	182.2	200.2	209.2	194.2	155.4	152.4
70°	18277.8	2647.4	257.0	176.3	143.4	134.5	161.3	179.3	161.3	125.5	119.5
72.5°	15182.2	1428.2	209.2	131.5	98.6	89.7	128.5	146.4	128.5	92.7	89.7
75°	9851.6	765.0	161.3	86.6	50.8	56.8	95.6	107.5	89.7	59.8	53.8
77.5°	3307.8	337.6	101.6	41.8	23.9	23.9	56.8	65.7	41.8	20.9	17.9
80°	738.0	140.4	41.8	17.9	8.9	8.9	12.0	12.0	5.9	0.0	0.0
82.5°	242.0	56.8	17.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	92.7	20.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.9	3.0	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)