

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: P971542

Luminaire Tested: **NAV-SB6D-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40162.6 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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



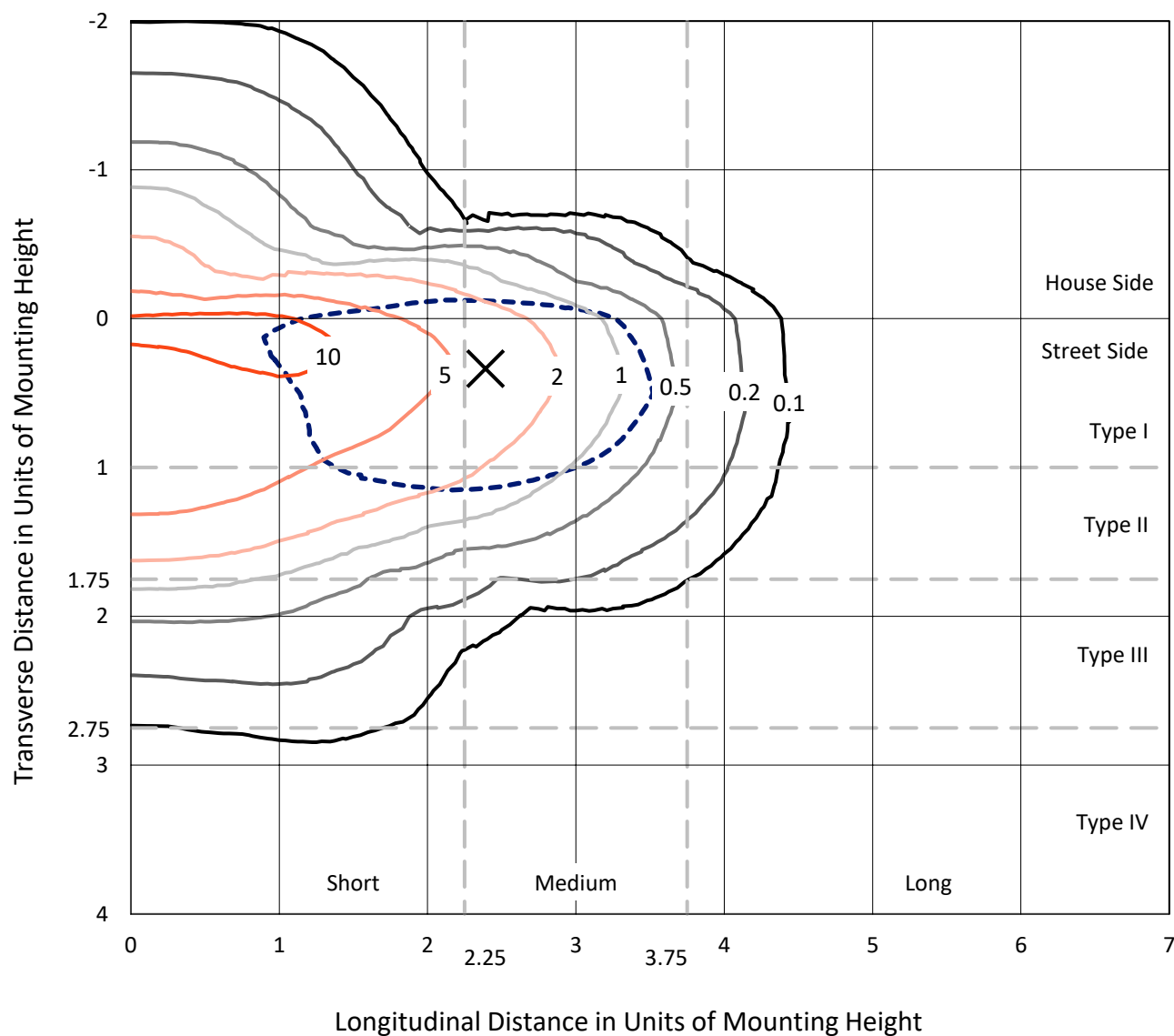
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

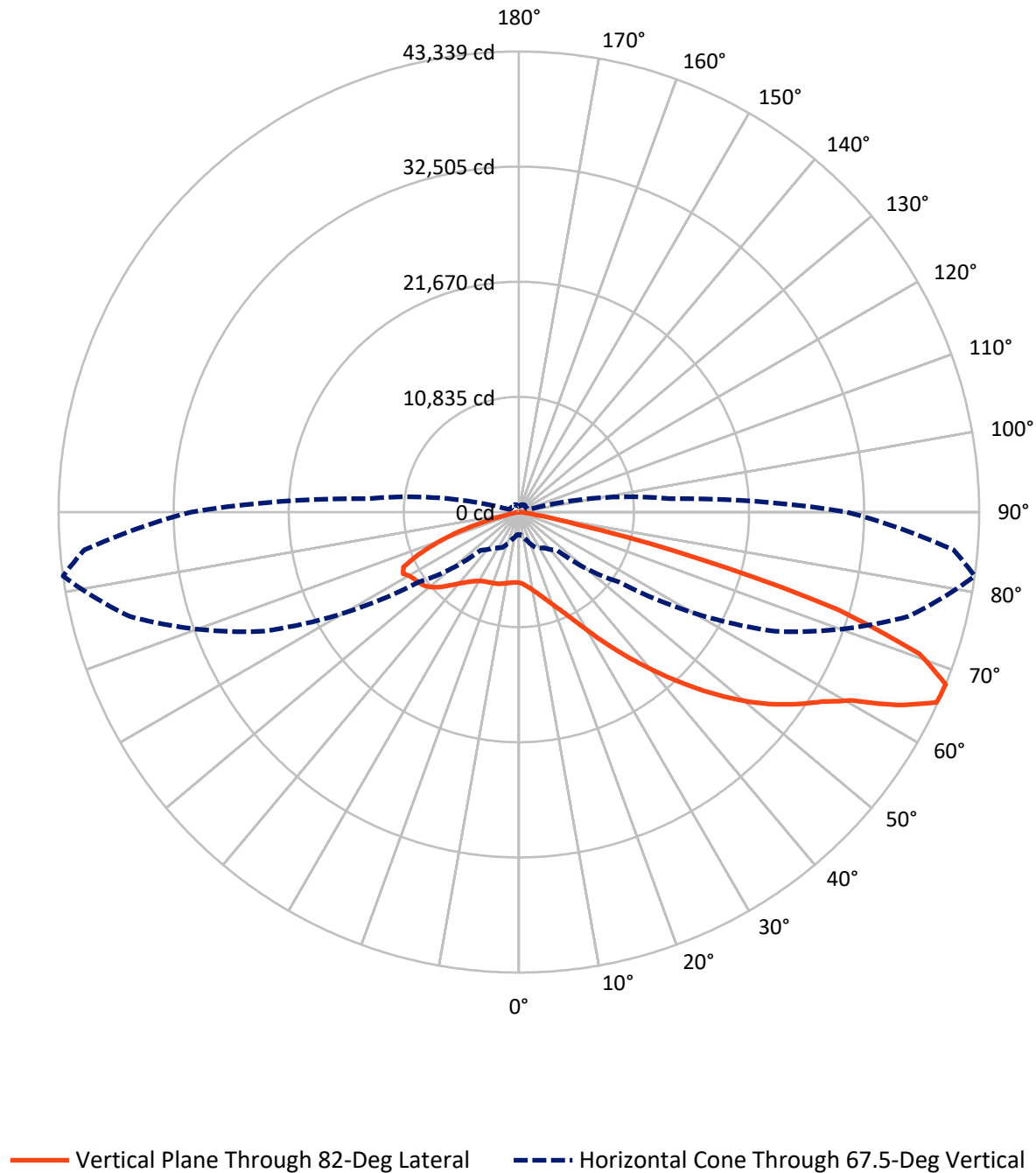
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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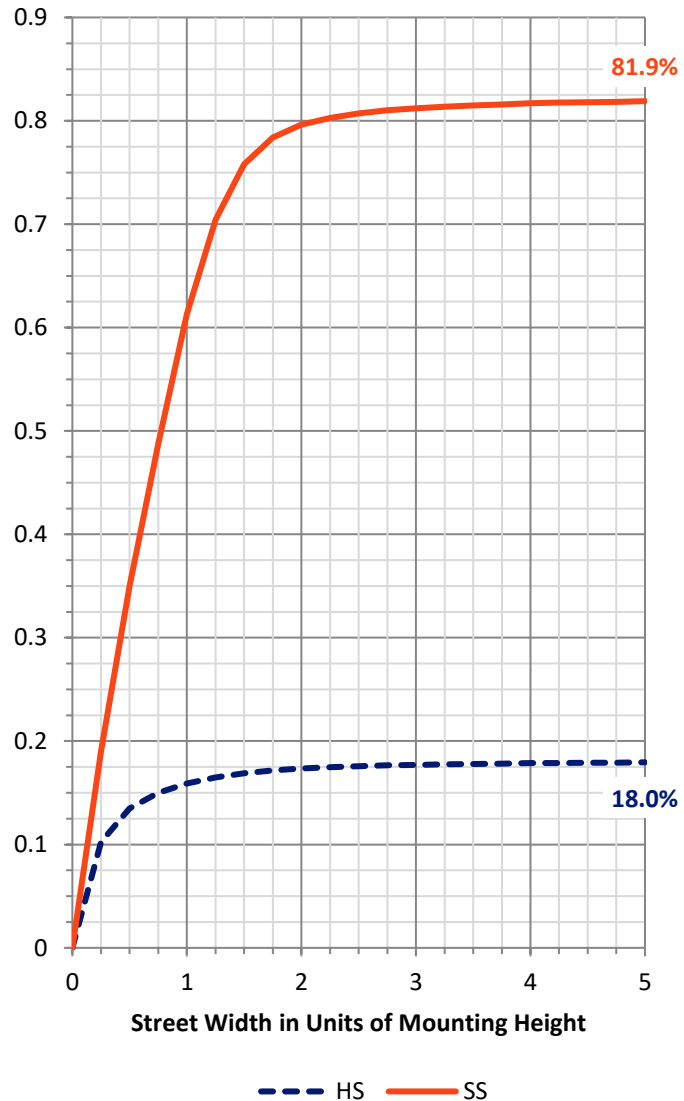
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7275.1	0.0	7275.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32887.5	0.0	32887.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	40162.6	0.0	40162.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.8	1.5
10°-20°	1540.4	3.8
20°-30°	2467.2	6.1
30°-40°	4362.8	10.9
40°-50°	7644.1	19.0
50°-60°	10195.1	25.4
60°-70°	9491.1	23.6
70°-80°	3642.7	9.1
80°-90°	226.3	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°	40162.6	100.0
0°-180°	40162.6	100.0

Coefficient of Utilization



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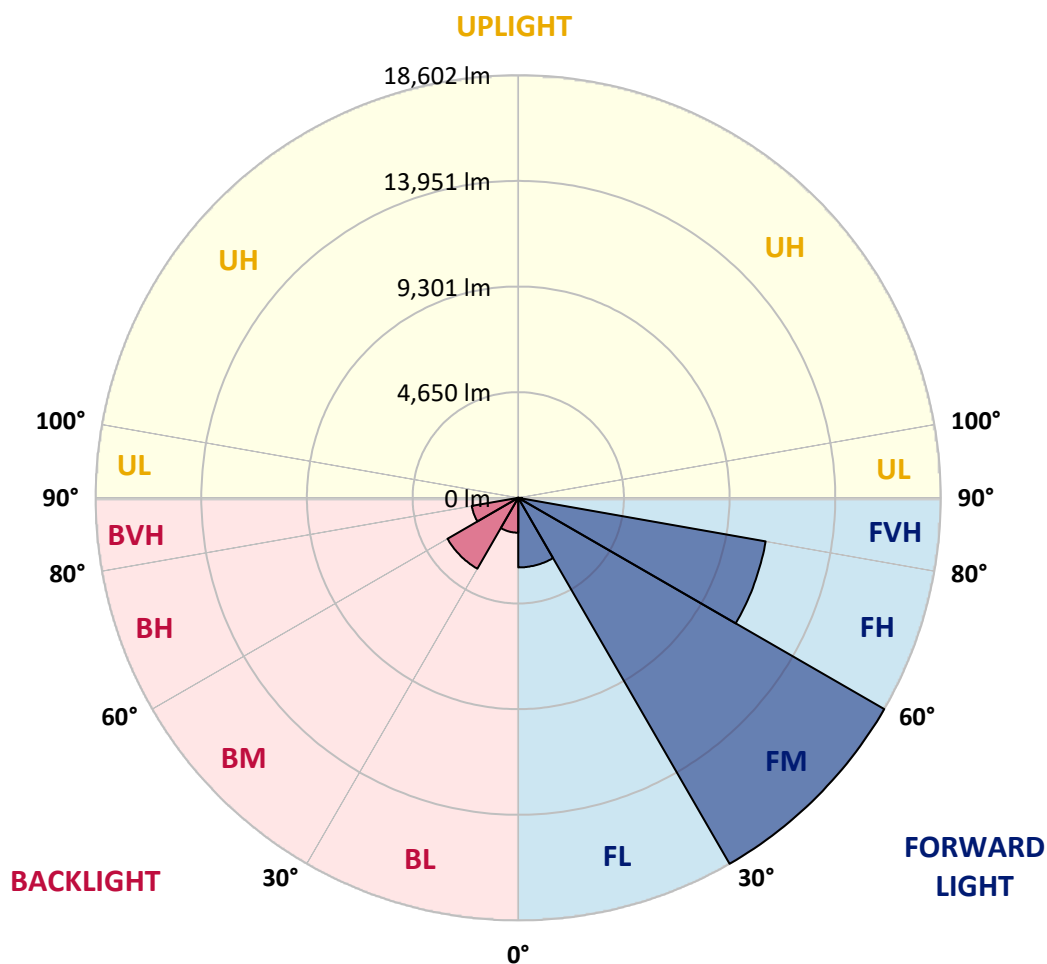
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3064.0	7.6			
FM	(30°-60°)	18601.6	46.3			
FH	(60°-80°)	11057.4	27.5			G4/12000
FVH	(80°-90°)	164.5	0.4			G2/225
BL	(0°-30°)	1536.5	3.8	B3/2500		
BM	(30°-60°)	3600.4	9.0	B3/5000		
BH	(60°-80°)	2076.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	61.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6
2.5°	7032.4	7072.9	7049.7	7038.2	7018.0	6989.0	6965.9	6893.5	6818.4	6769.2	6751.9
5°	7174.1	7214.6	7211.7	7223.2	7237.7	7246.3	7240.6	7159.6	7052.6	6968.8	6919.6
7.5°	7052.6	7098.8	7136.5	7194.3	7295.5	7402.6	7454.5	7437.2	7327.3	7211.7	7150.9
10°	6708.5	6757.7	6847.3	6983.2	7197.2	7428.5	7622.3	7711.9	7642.5	7515.3	7431.5
12.5°	6078.1	6127.3	6303.6	6598.6	6957.2	7359.1	7729.2	7969.3	7986.6	7859.4	7761.1
15°	5369.7	5418.9	5606.9	5977.0	6523.4	7168.2	7787.1	8241.1	8394.3	8284.5	8165.9
17.5°	4930.1	4973.6	5115.3	5413.1	5982.7	6786.6	7766.8	8530.3	8880.1	8793.4	8651.7
20°	4797.2	4834.7	4901.2	5109.4	5583.7	6390.5	7633.8	8802.1	9403.5	9354.4	9195.3
22.5°	4938.9	4973.6	4993.8	5086.4	5384.1	6130.2	7466.1	9079.7	10010.8	10016.5	9822.8
25°	5265.6	5300.3	5277.2	5335.0	5465.1	6049.2	7402.6	9406.4	10774.1	10837.7	10618.0
27.5°	5803.4	5806.3	5751.4	5748.5	5768.7	6170.7	7469.0	9756.3	11737.0	11855.6	11583.7
30°	6882.1	6838.6	6627.5	6399.1	6295.0	6535.0	7654.1	10169.7	12873.4	13084.5	12743.3
32.5°	8544.7	8481.1	8093.6	7547.1	6997.7	7122.0	7986.6	10641.1	14111.1	14492.7	14076.3
35°	10349.0	10331.7	9926.9	9114.3	8154.3	7957.7	8527.4	11259.9	15461.4	16068.6	15574.2
37.5°	12026.2	12017.5	11786.2	10829.0	9660.8	9123.0	9394.8	12069.6	16907.2	17786.2	17202.2
40°	13558.7	13584.7	13353.4	12497.5	11320.6	10618.0	10574.6	13070.1	18515.0	19657.1	18963.1
42.5°	14883.1	14912.0	14677.8	14044.6	12960.2	12271.9	12023.2	14296.1	20085.1	21666.8	20845.5
45°	15782.3	15961.6	15927.0	15420.9	14643.0	13928.8	13764.0	15834.4	21874.9	23797.9	22834.9
47.5°	16036.8	16201.7	16461.9	16531.3	16057.0	15354.4	15551.0	17687.9	23685.1	25931.9	24836.0
50°	15409.3	15562.6	16103.4	16823.3	17153.0	16936.1	17288.9	19674.5	25538.6	28060.1	26799.3
52.5°	14171.8	14327.9	15010.3	16149.6	17494.2	18176.6	19032.5	21632.1	27334.3	30075.5	28658.7
55°	12381.8	12546.7	13422.8	14712.4	16843.6	18688.4	20487.0	23586.8	28979.6	31888.6	30335.8
57.5°	9947.1	10068.6	10979.4	12783.8	15206.9	18179.5	21559.7	25720.8	30529.5	33669.8	31998.4
60°	6483.0	6589.9	7648.2	9660.8	12494.6	16479.2	21773.8	28100.6	32588.3	35986.0	34239.5
62.5°	4311.4	4383.7	5011.1	6488.8	8799.1	13214.6	20521.7	30000.4	35607.2	40016.9	38082.4
65°	2958.1	3030.4	3657.9	4687.3	5684.9	8741.3	16921.6	29748.8	38342.7	43217.9	40930.6
67.5°	2110.9	2171.6	2703.6	3675.2	4114.8	5077.6	11471.0	26533.4	37949.4	43339.4	41083.9
70°	1512.3	1547.0	1986.6	2862.7	3270.4	3050.6	6378.9	20293.3	33227.4	40019.8	37955.2
72.5°	1058.3	1069.9	1379.3	2180.3	2634.2	2226.5	3036.2	13529.8	25130.9	31411.5	29425.0
75°	717.1	731.5	928.2	1599.1	2113.8	1700.3	1607.7	7255.1	14752.9	17387.2	15585.7
77.5°	439.5	445.3	598.6	1093.1	1581.7	1295.4	1035.1	3073.8	5708.0	5603.9	4776.9
80°	248.7	248.7	381.7	679.6	1078.6	835.7	725.8	1307.0	1807.3	1587.5	1399.5
82.5°	138.8	141.7	277.6	422.2	714.2	494.5	399.0	604.3	780.7	691.1	601.5
85°	57.8	63.7	170.6	199.6	341.2	245.8	162.0	254.5	289.2	257.4	188.0
87.5°	5.7	8.7	52.1	37.6	40.5	49.2	23.2	49.2	40.5	40.5	28.9
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°	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6
2.5°	6696.9	6653.6	6543.7	6416.5	6248.7	6167.8	6058.0	5982.7	5919.1	5924.9	5867.1
5°	6827.1	6717.2	6471.4	6164.9	5783.3	5511.4	5222.3	5022.7	4860.8	4826.1	4748.0
7.5°	7006.4	6832.9	6402.0	5849.7	5204.8	4716.2	4279.6	3999.0	3799.6	3735.9	3672.4
10°	7237.7	6986.1	6312.4	5453.6	4525.4	3903.7	3435.2	3215.4	3079.5	3033.3	2998.6
12.5°	7506.6	7162.5	6193.8	4970.6	3825.6	3227.0	2929.2	2819.3	2775.9	2761.5	2752.8
15°	7844.9	7382.3	6014.5	4398.2	3232.8	2813.5	2686.3	2671.9	2677.6	2671.9	2669.0
17.5°	8246.8	7622.3	5722.5	3808.3	2833.8	2602.5	2556.1	2567.7	2582.2	2579.3	2573.6
20°	8686.4	7859.4	5349.5	3284.8	2562.0	2452.1	2426.1	2437.7	2449.2	2443.4	2440.5
22.5°	9186.7	8113.8	4936.0	2877.2	2379.7	2313.3	2284.4	2287.3	2287.3	2275.7	2269.9
25°	9785.2	8394.3	4502.2	2588.0	2241.0	2189.0	2154.2	2142.7	2125.3	2090.6	2084.8
27.5°	10499.4	8692.2	4085.9	2385.6	2131.1	2082.0	2041.5	2012.6	1969.2	1911.3	1905.6
30°	11303.3	9053.6	3733.0	2258.4	2044.4	1995.2	1948.9	1905.6	1841.9	1769.7	1763.9
32.5°	12248.9	9441.1	3475.7	2174.4	1966.3	1914.3	1859.4	1807.3	1737.9	1665.5	1668.5
35°	13376.6	9909.5	3325.3	2116.6	1905.6	1836.2	1775.4	1717.6	1665.5	1602.0	1596.1
37.5°	14599.7	10406.9	3279.1	2087.7	1865.1	1758.1	1688.7	1648.2	1642.5	1604.8	1602.0
40°	15938.5	10996.8	3313.8	2070.4	1821.7	1682.9	1607.7	1599.1	1613.6	1547.0	1549.9
42.5°	17355.4	11696.6	3371.6	2050.1	1761.0	1607.7	1535.4	1535.4	1523.9	1431.3	1431.3
45°	18888.0	12503.3	3429.4	2001.0	1688.7	1532.6	1477.6	1457.3	1408.2	1318.6	1315.7
47.5°	20432.0	13324.5	3472.8	1911.3	1602.0	1468.9	1419.7	1373.5	1301.2	1220.3	1217.4
50°	21898.1	14061.9	3426.6	1778.4	1503.7	1408.2	1356.2	1292.5	1214.5	1159.6	1150.9
52.5°	23208.0	14701.0	3229.9	1622.2	1399.5	1344.6	1298.4	1231.8	1168.2	1110.4	1104.6
55°	24347.3	15218.5	2882.9	1474.7	1307.0	1289.7	1243.4	1159.6	1072.8	1023.7	1017.8
57.5°	25440.3	15611.8	2449.2	1353.3	1223.1	1229.0	1159.6	1084.3	1003.4	951.3	945.6
60°	26894.8	16138.0	2009.6	1240.5	1133.5	1150.9	1075.6	1020.7	919.5	853.0	844.4
62.5°	29219.7	16956.4	1596.1	1101.7	1029.4	1035.1	1003.4	936.8	815.4	737.4	731.5
65°	31064.5	16655.6	1257.9	951.3	910.8	919.5	919.5	847.3	717.1	627.5	618.8
67.5°	30856.3	14261.3	1003.4	803.9	798.1	803.9	824.1	763.4	636.1	563.9	552.3
70°	28424.5	11343.8	803.9	668.0	694.0	679.6	737.4	696.9	572.6	500.2	491.6
72.5°	23193.6	8171.7	613.1	552.3	532.1	555.1	665.0	627.5	477.1	396.2	387.4
75°	13553.0	4360.6	456.8	436.6	384.6	462.7	589.9	534.9	364.4	292.0	283.4
77.5°	4412.6	1521.0	335.4	320.9	286.3	373.0	503.2	451.1	297.9	231.3	222.6
80°	1182.6	459.8	228.5	211.0	185.0	277.6	399.0	358.5	214.0	150.4	147.5
82.5°	474.3	193.7	133.0	118.6	101.2	190.9	315.2	289.2	159.1	95.4	95.4
85°	153.2	63.7	49.2	37.6	46.2	118.6	188.0	196.6	112.7	49.2	37.6
87.5°	20.2	8.7	8.7	11.6	8.7	20.2	57.8	54.9	31.8	5.7	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)