

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: P969404

Luminaire Tested: **NAV-SB5D-760-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-760-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47196.1 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 364.9
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

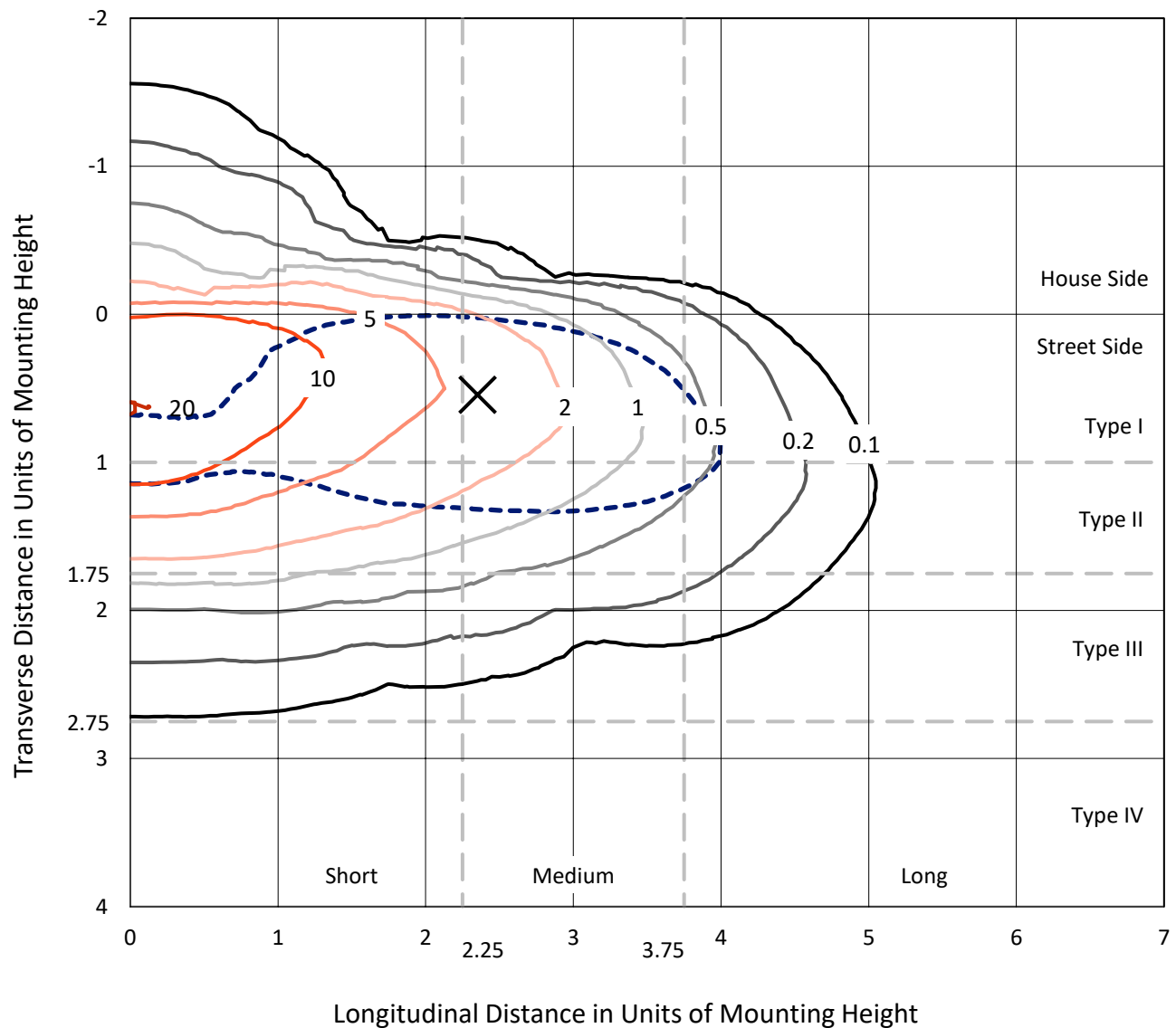


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Iso-Footcandle Lines of Horizontal Illumination

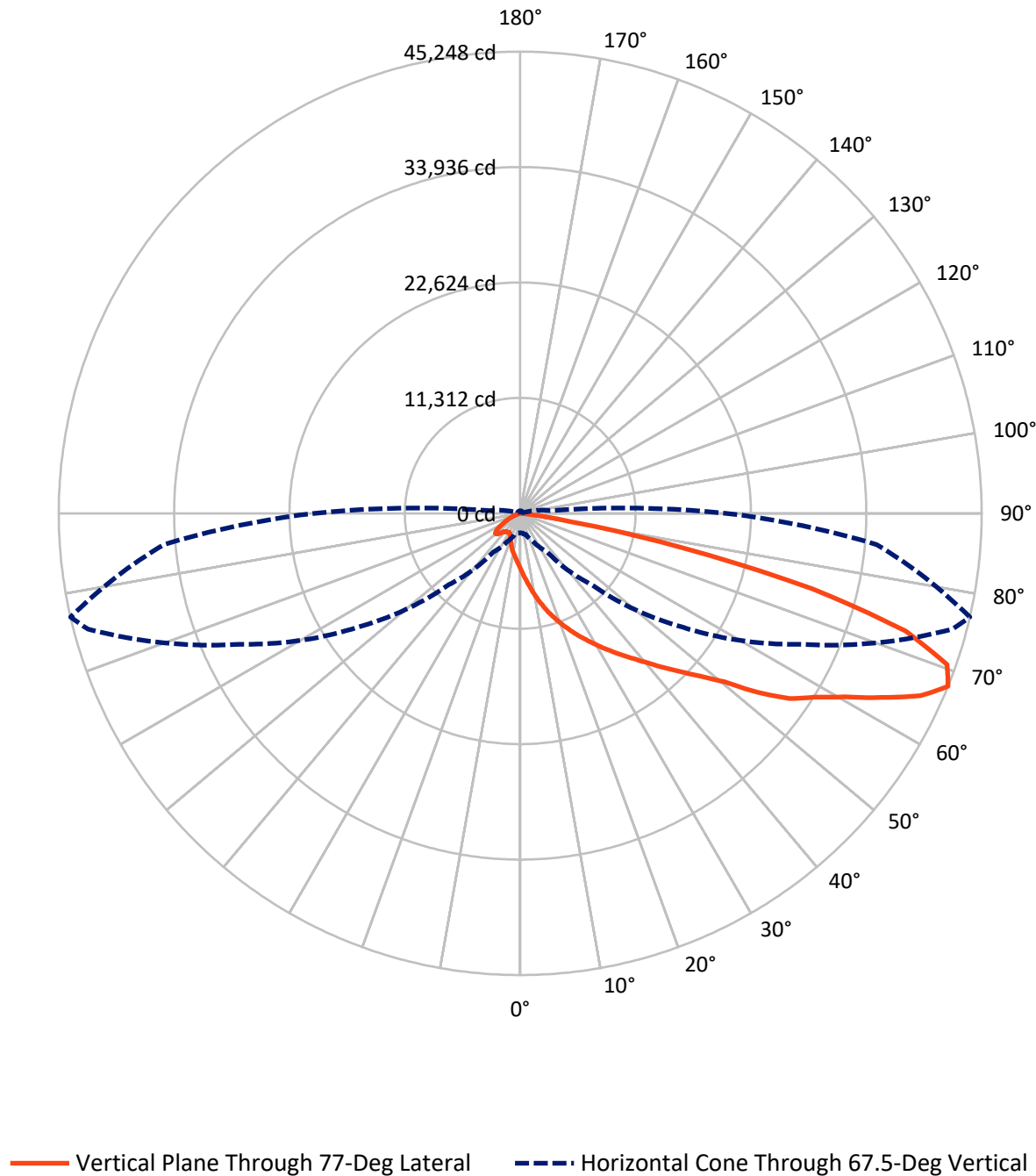
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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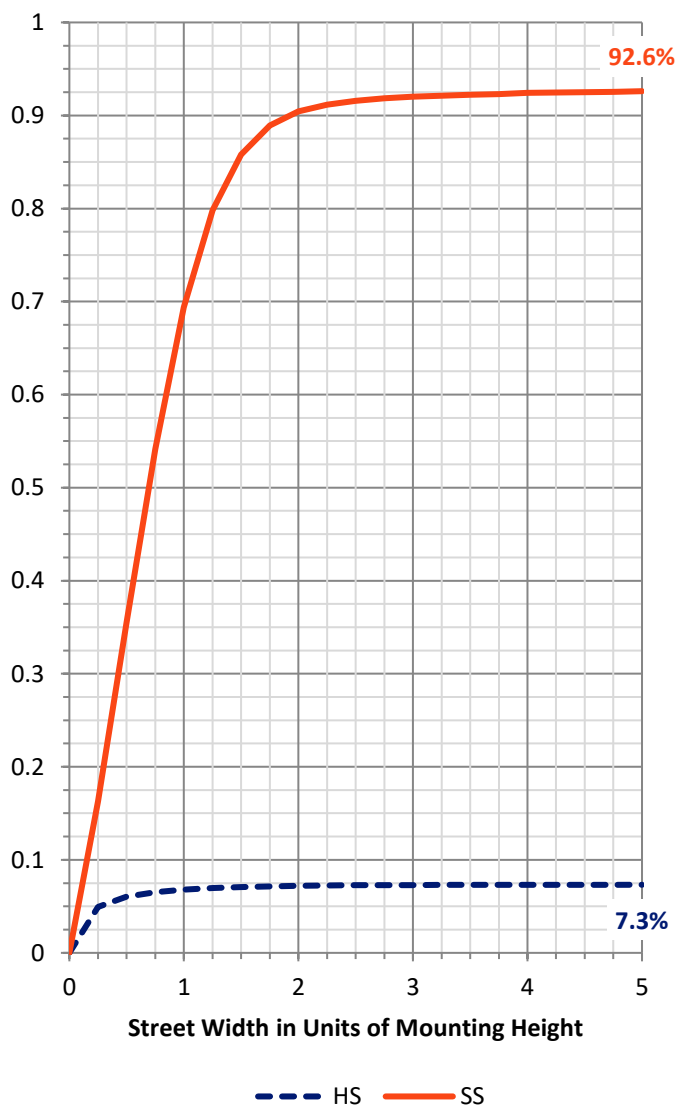
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3472.2	0.0	3472.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	43723.9	0.0	43723.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	47196.1	0.0	47196.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.5	1.2
10°-20°	1945.2	4.1
20°-30°	3753.8	8.0
30°-40°	6516.8	13.8
40°-50°	9462.0	20.0
50°-60°	10866.0	23.0
60°-70°	9433.7	20.0
70°-80°	4443.4	9.4
80°-90°	219.7	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°	47196.1	100.0
0°-180°	47196.1	100.0

Coefficient of Utilization



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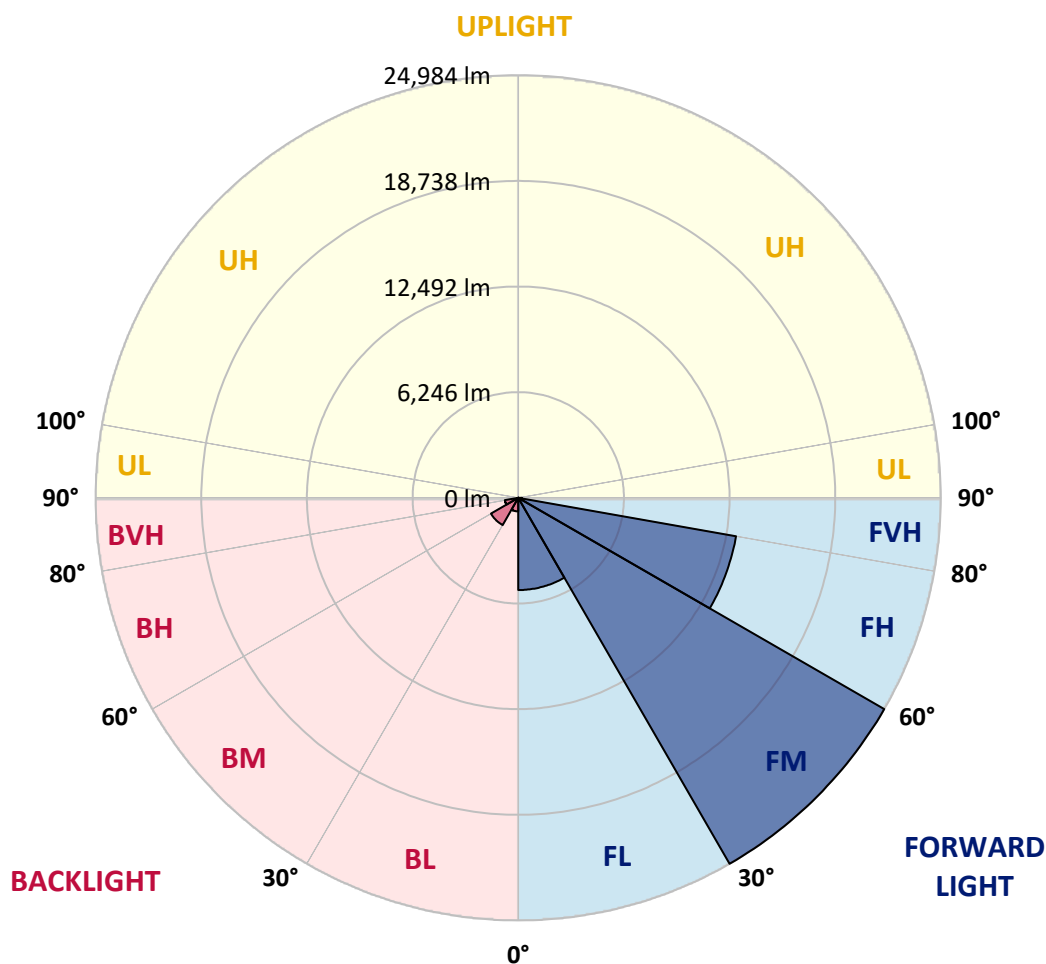
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5450.6	11.5			
FM	(30°-60°)	24984.4	52.9			
FH	(60°-80°)	13073.2	27.7			G5
FVH	(80°-90°)	215.7	0.5			G2/225
BL	(0°-30°)	803.9	1.7	B2/1000		
BM	(30°-60°)	1860.5	3.9	B2/2500		
BH	(60°-80°)	803.8	1.7	B2/1000		G2/1000
BVH	(80°-90°)	4.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4
2.5°	7535.0	7581.8	7514.5	7385.5	7192.0	7066.0	6758.3	6468.2	6145.8	6043.2	5720.8
5°	9185.0	9226.0	9149.8	9009.1	8751.2	8505.0	8100.6	7494.0	6863.8	6661.6	6090.1
7.5°	10407.1	10430.5	10401.3	10272.2	10026.1	9747.6	9296.3	8578.3	7643.4	7420.7	6544.4
10°	11286.4	11362.5	11353.7	11303.9	11139.8	10914.1	10433.5	9615.8	8516.7	8229.5	7057.2
12.5°	11869.5	11954.6	12004.4	12115.7	12106.9	11963.3	11541.3	10676.7	9387.2	9050.1	7634.6
15°	12039.5	12130.4	12320.9	12578.8	12807.4	12880.7	12584.6	11717.2	10345.5	9914.7	8226.6
17.5°	11942.8	12083.5	12312.1	12719.4	13220.7	13551.8	13519.5	12722.4	11216.0	10723.7	8806.9
20°	12156.8	12291.6	12470.4	12813.2	13396.4	13997.3	14237.6	13683.6	12080.5	11564.8	9416.5
22.5°	13340.8	13317.3	13334.9	13390.6	13739.4	14334.3	14829.6	14557.0	12936.3	12408.9	10061.3
25°	15216.4	15111.0	14932.2	14630.3	14542.4	14829.6	15345.4	15330.7	13839.0	13273.3	10720.7
27.5°	17367.6	17350.1	16930.9	16204.1	15793.8	15682.5	15928.6	16084.0	14732.9	14129.1	11383.0
30°	19428.0	19474.9	18909.2	18100.4	17347.1	16910.4	16687.7	16799.0	15641.4	15052.3	12065.9
32.5°	21221.6	21271.4	20655.9	19709.3	18777.3	18249.8	17780.9	17505.4	16632.1	15990.2	12816.2
35°	22736.8	22786.6	22080.2	21034.0	20040.5	19562.7	19032.3	18279.1	17628.5	17030.6	13651.5
37.5°	24090.8	24076.1	23129.5	22074.4	21098.5	20720.4	20442.0	19231.6	18654.3	18076.9	14577.6
40°	24890.9	24952.4	24143.6	22980.0	22033.4	21757.9	21740.4	20412.7	19838.3	19278.5	15591.6
42.5°	25125.3	25233.8	24647.7	23692.2	22833.5	22534.5	22994.6	21690.5	21215.8	20670.6	16737.5
45°	24703.3	24808.8	24542.1	23879.7	23378.6	23185.2	24073.1	23015.2	22686.9	22147.7	18030.0
47.5°	23472.4	23604.3	23668.8	23528.1	23522.2	23718.6	25040.3	24410.3	24433.6	23882.7	19527.6
50°	21089.7	21312.4	21904.5	22402.7	23173.5	24140.6	25981.1	25922.5	26403.2	25928.4	21479.5
52.5°	16758.0	17074.6	19114.4	20477.1	22209.3	24061.5	27015.7	28349.1	29858.5	29163.9	24231.4
55°	13466.8	13466.8	15125.6	17675.4	20327.7	23539.8	27467.0	29925.9	32211.9	32047.8	26168.7
57.5°	10978.6	11110.5	12168.5	14422.3	17605.0	22297.1	27745.4	30916.5	34108.1	33988.0	28061.9
60°	6775.9	7060.2	9058.9	11283.4	14507.2	20084.5	27569.6	31918.8	36408.7	36505.5	30342.0
62.5°	3815.9	3921.3	4812.3	8118.2	11280.4	17109.7	26224.4	32478.6	39351.2	39761.5	32692.6
65°	2634.8	2687.5	3030.4	5052.6	7819.2	13622.1	23595.5	32129.9	42299.6	43128.9	34685.5
67.5°	1913.8	1940.1	2154.1	3086.1	4639.4	9876.6	19474.9	30371.4	43861.6	45247.9	35066.5
70°	1471.3	1488.8	1644.2	2028.1	2740.2	6096.0	14143.8	26875.0	42730.4	44386.3	33114.6
72.5°	1195.8	1213.3	1333.5	1500.5	1817.0	3604.8	8572.5	21825.3	37736.4	39524.1	28190.9
75°	1008.2	1031.7	1140.1	1248.4	1424.3	2315.3	4021.0	15198.9	28378.5	29550.7	19603.8
77.5°	559.8	515.8	926.1	1034.5	1201.6	1465.3	1881.6	8944.7	15893.4	16218.8	8698.5
80°	348.8	360.5	735.6	832.3	923.2	738.5	861.6	3443.6	5509.8	5234.4	1685.2
82.5°	20.5	46.8	565.6	600.9	633.0	316.5	325.3	1169.3	1327.6	1219.2	298.9
85°	0.0	0.0	257.9	208.1	219.8	90.8	93.8	272.5	178.8	193.4	58.6
87.5°	0.0	0.0	0.0	5.8	0.0	8.8	17.6	23.5	8.8	11.7	20.5
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°	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4	5442.4
2.5°	5515.6	5310.5	4894.4	4486.9	4155.8	3848.1	3628.3	3420.2	3314.6	3308.8	3303.0
5°	5682.7	5251.9	4419.6	3684.0	3091.9	2617.1	2309.4	2089.7	1978.2	1940.1	1934.3
7.5°	5917.2	5269.5	4003.4	2980.6	2283.1	1875.6	1699.9	1629.5	1606.1	1579.6	1573.8
10°	6213.2	5310.5	3631.2	2400.2	1799.5	1594.3	1524.0	1494.7	1477.1	1459.5	1453.7
12.5°	6544.4	5348.7	3262.0	1992.9	1582.6	1477.1	1427.3	1392.2	1368.7	1348.2	1342.2
15°	6866.8	5372.0	2878.0	1708.7	1471.3	1386.2	1333.5	1295.4	1263.1	1239.7	1236.8
17.5°	7186.2	5404.3	2517.5	1538.6	1380.4	1295.4	1242.6	1195.8	1169.3	1143.0	1140.1
20°	7540.8	5398.5	2177.5	1418.5	1289.6	1204.6	1148.8	1104.8	1078.5	1049.2	1046.3
22.5°	7869.0	5369.2	1878.6	1315.9	1195.8	1113.7	1052.2	1008.2	981.8	958.4	955.4
25°	8247.2	5345.7	1629.5	1222.1	1107.8	1025.7	958.4	917.4	888.1	867.5	864.6
27.5°	8610.5	5310.5	1447.8	1137.1	1022.8	943.7	879.2	832.3	806.0	791.3	791.3
30°	8968.1	5301.7	1380.4	1055.0	946.6	867.5	803.0	759.1	738.5	732.7	729.8
32.5°	9398.9	5325.2	1409.7	1025.7	876.3	797.1	735.6	703.4	682.9	682.9	682.9
35°	9859.1	5319.3	1453.7	1052.2	829.4	726.8	680.0	659.4	638.9	638.9	638.9
37.5°	10436.4	5328.2	1488.8	1096.1	811.8	668.2	641.9	615.4	603.7	603.7	603.7
40°	11298.1	5618.2	1471.3	1134.2	806.0	627.2	574.4	565.6	556.9	556.9	556.9
42.5°	12353.1	6248.4	1494.7	1137.1	803.0	597.9	527.6	545.1	524.6	521.7	518.8
45°	13507.9	6937.1	1644.2	1075.6	800.1	583.2	504.1	524.6	492.4	492.4	492.4
47.5°	14653.8	7620.0	1796.5	987.7	791.3	580.3	483.6	471.8	463.1	466.0	466.0
50°	16233.4	8176.8	1855.1	867.5	770.8	574.4	445.5	448.4	442.5	448.4	448.4
52.5°	17953.8	8294.0	1784.8	732.7	712.2	556.9	419.1	430.8	427.9	433.8	433.8
55°	19026.5	8168.0	1474.2	609.6	621.4	486.5	392.7	416.2	416.2	416.2	416.2
57.5°	20134.3	7631.6	1046.3	495.3	515.8	398.6	369.3	401.5	398.6	395.6	395.6
60°	20931.4	6764.2	688.7	407.3	410.3	328.2	342.9	378.0	375.2	360.5	360.5
62.5°	21526.3	5805.8	442.5	345.8	313.5	296.0	313.5	342.9	331.2	298.9	293.0
65°	21459.0	4478.2	340.0	296.0	257.9	257.9	272.5	298.9	263.7	211.0	205.1
67.5°	20207.6	3030.4	281.4	249.1	216.9	213.9	225.7	249.1	225.7	178.8	172.9
70°	17971.3	1981.2	225.7	193.4	172.9	158.3	181.7	213.9	190.5	143.6	137.8
72.5°	14586.4	1207.4	169.9	140.6	126.0	102.6	143.6	175.9	152.4	105.5	99.6
75°	9437.1	615.4	117.3	90.8	67.4	61.5	105.5	131.9	105.5	64.5	55.7
77.5°	3610.7	257.9	64.5	41.0	35.2	29.3	58.6	79.1	44.0	14.7	11.7
80°	694.5	108.4	32.3	20.5	17.6	11.7	8.8	5.8	0.0	0.0	0.0
82.5°	120.1	35.2	11.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	0.0	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)