

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: P970381

Luminaire Tested: **NAV-SB6B-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31572.1 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

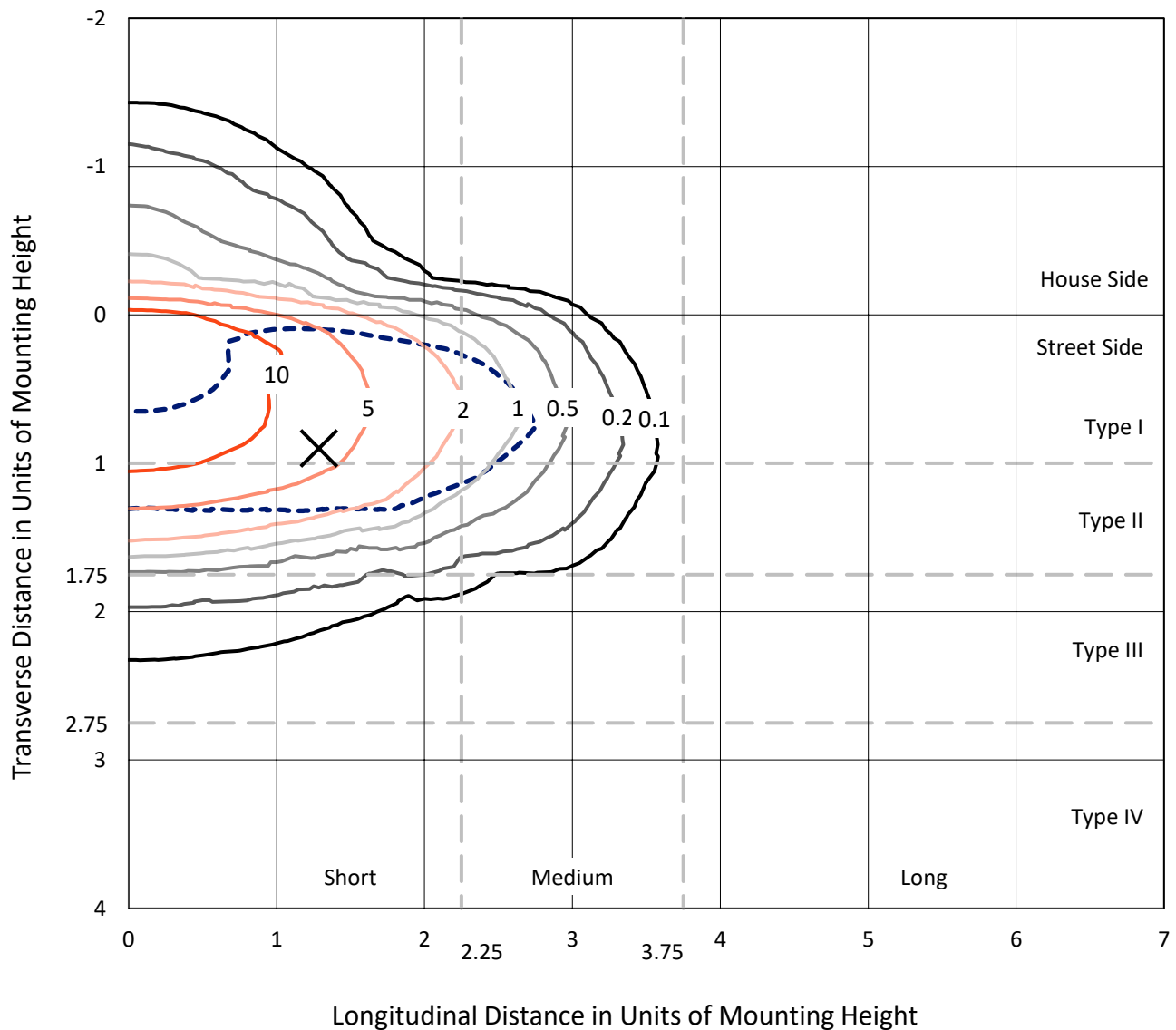
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

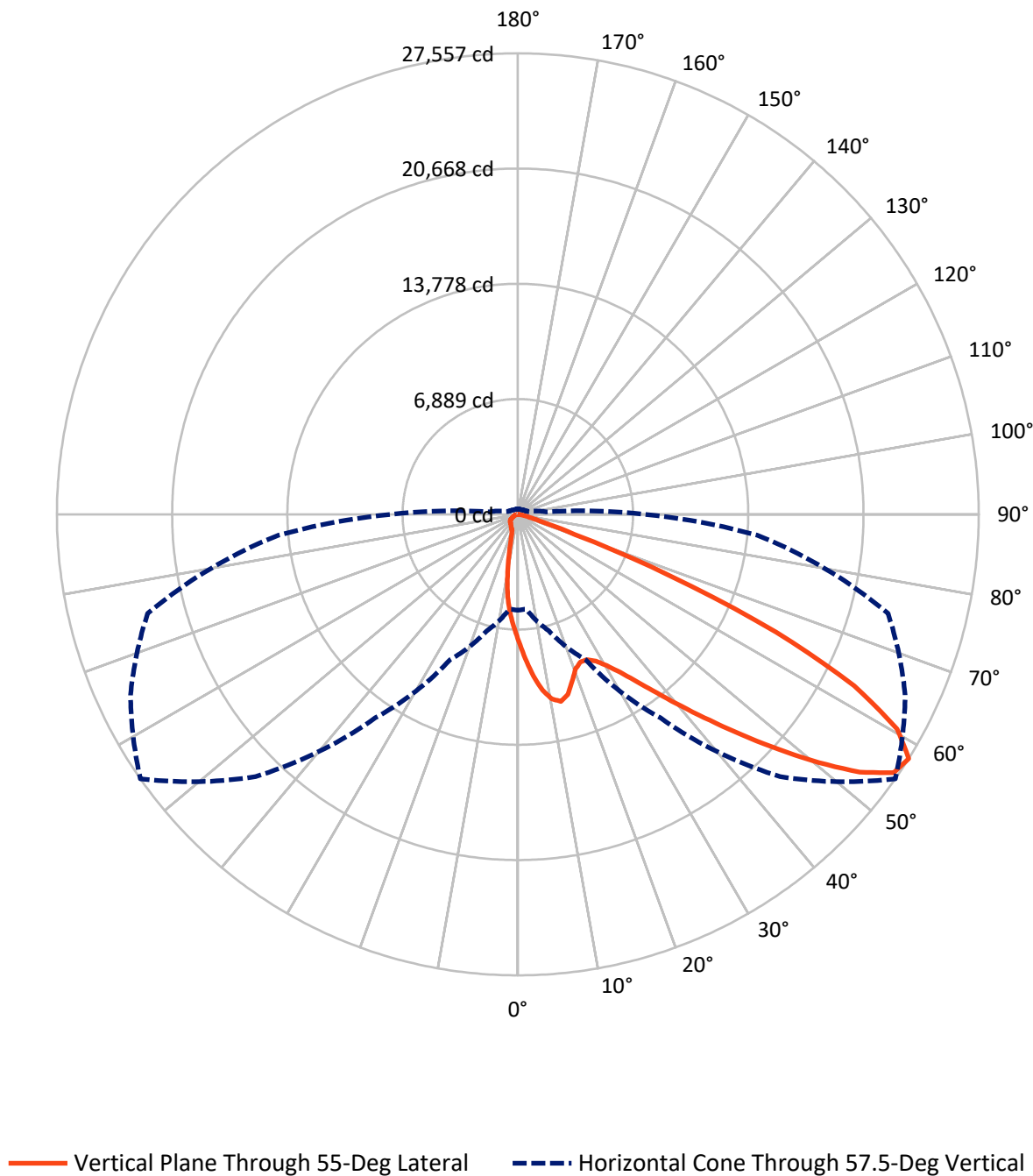
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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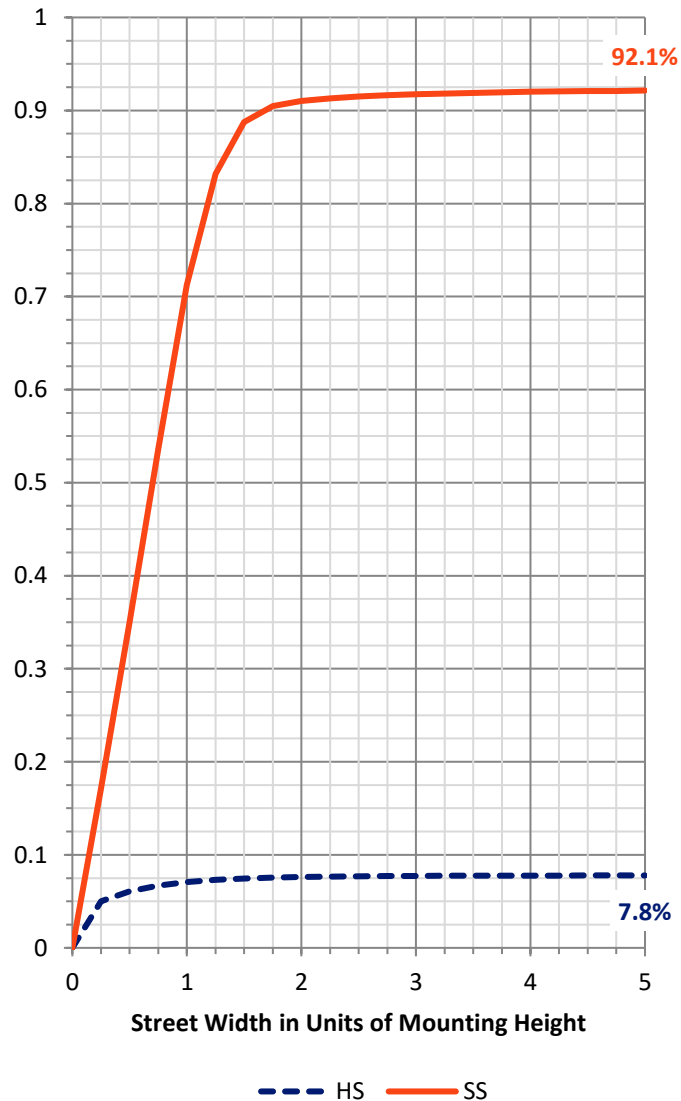
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2465.6	0.0	2465.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	29106.4	0.0	29106.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	31572.1	0.0	31572.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.9	2.2
10°-20°	1709.9	5.4
20°-30°	2735.8	8.7
30°-40°	4630.6	14.7
40°-50°	7602.4	24.1
50°-60°	8355.6	26.5
60°-70°	4792.8	15.2
70°-80°	979.3	3.1
80°-90°	57.8	0.2
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°	31572.1	100.0
0°-180°	31572.1	100.0

Coefficient of Utilization



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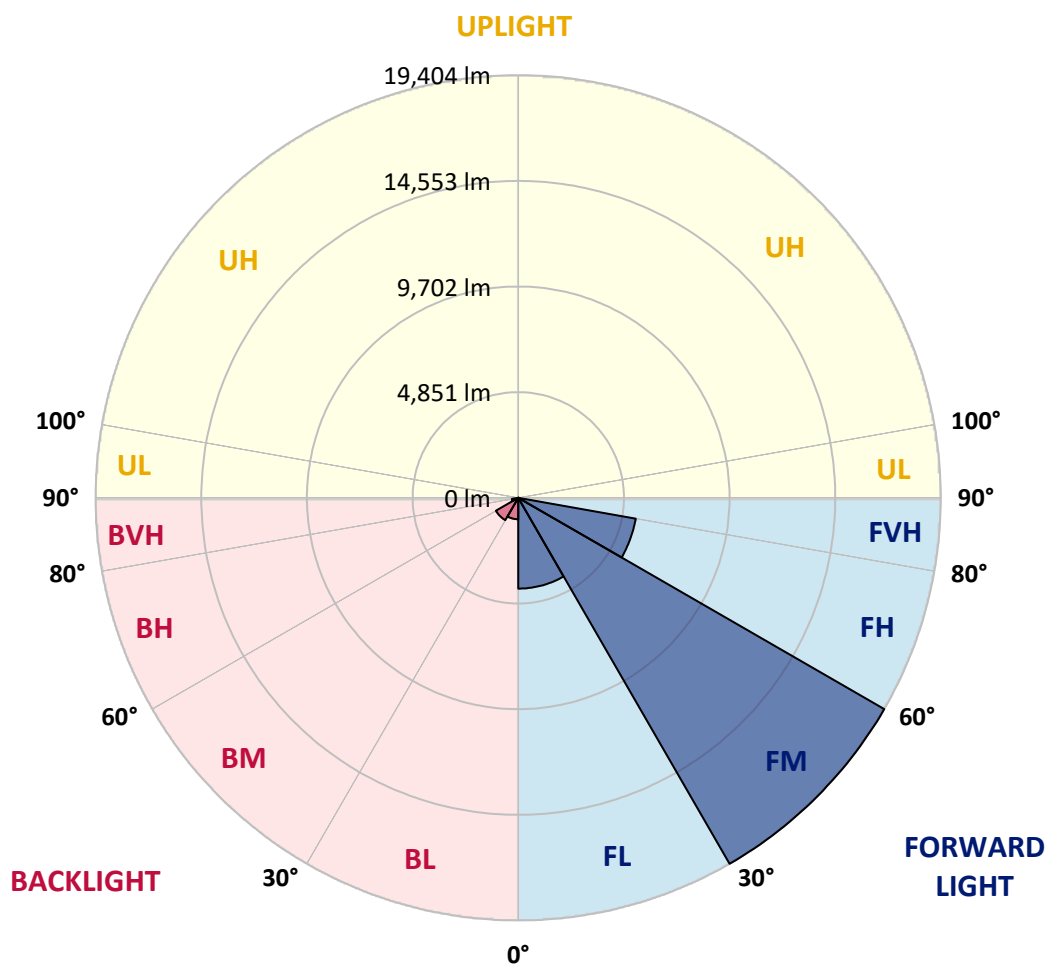
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4169.3	13.2			
FM	(30°-60°)	19404.4	61.5			
FH	(60°-80°)	5478.8	17.4			G3/7500
FVH	(80°-90°)	53.9	0.2			G1/100
BL	(0°-30°)	984.4	3.1	B2/1000		
BM	(30°-60°)	1184.2	3.8	B2/2500		
BH	(60°-80°)	293.2	0.9	B1/500		G1/500
BVH	(80°-90°)	3.9	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1
2.5°	9440.0	9321.2	9303.7	9280.3	9054.5	8885.2	8639.9	8371.3	8069.5	7761.9	7625.6
5°	10906.0	10812.5	10795.0	10685.9	10429.0	10140.8	9704.8	9153.9	8591.2	7929.3	7645.1
7.5°	11190.2	11172.7	11252.4	11248.6	11213.6	10985.7	10617.9	9961.8	9116.9	8135.6	7695.7
10°	9922.8	9967.6	10205.1	10413.4	10976.0	11303.1	11223.3	10682.0	9658.1	8371.3	7752.2
12.5°	8768.4	8715.8	8885.2	9120.8	9774.9	10748.3	11474.5	11283.6	10277.2	8638.0	7835.8
15°	8044.2	8022.8	8118.1	8227.2	8725.5	9706.8	11182.4	11772.3	10872.9	8953.3	7962.4
17.5°	7812.6	7795.0	7824.1	7851.4	8174.6	8933.9	10487.4	12072.1	11443.3	9313.5	8102.5
20°	8001.4	7978.0	7974.1	7952.7	8087.0	8604.9	9858.6	12093.5	11955.3	9640.5	8223.3
22.5°	8552.3	8525.0	8429.6	8344.0	8355.7	8649.7	9578.2	11879.3	12340.8	9946.2	8299.2
25°	9550.9	9506.3	9307.6	9019.5	8836.5	8961.1	9621.1	11597.1	12708.7	10185.6	8262.2
27.5°	10800.8	10742.4	10487.4	10059.1	9640.5	9488.7	9930.6	11402.4	13014.3	10368.7	8182.4
30°	12025.4	11949.4	11698.3	11365.4	10754.1	10275.2	10489.3	11488.1	13378.4	10559.4	8077.3
32.5°	13347.2	13275.2	12942.3	12529.6	12023.5	11379.0	11254.4	11906.6	13824.2	10826.2	8003.3
35°	15019.5	14906.7	14433.5	13870.9	13333.6	12681.4	12290.2	12628.9	14418.0	11233.0	8044.2
37.5°	16923.5	16771.7	16261.6	15484.9	14784.0	14054.0	13551.6	13621.7	15288.2	11778.2	8170.7
40°	18718.4	18580.3	18109.1	17377.1	16497.2	15611.4	15076.0	14920.2	16489.4	12442.0	8392.6
42.5°	19795.0	19670.5	19471.8	19162.4	18420.6	17517.2	16841.8	16505.0	17910.5	13236.2	8663.3
45°	19855.4	19746.4	20013.1	20373.2	20227.2	19625.7	18802.2	18185.0	19337.5	13981.9	8943.6
47.5°	18889.8	18815.8	19625.7	20883.4	21510.1	21763.2	21004.0	19725.0	20515.4	14517.3	9058.4
50°	16257.7	16230.5	17896.9	20205.8	21998.9	23636.1	23326.5	21157.8	21428.4	14793.7	8949.5
52.5°	14096.7	13997.5	14968.9	18037.1	21288.2	24621.1	25596.5	22563.4	22066.9	14846.3	8694.4
55°	10691.8	10604.2	11822.9	14408.2	18996.8	24270.8	27257.1	24013.8	22524.5	14711.9	8236.9
57.5°	5735.3	5680.8	7220.7	9589.9	14850.2	22168.2	27556.9	25547.8	22909.9	14355.6	7596.4
60°	2233.0	2223.2	2799.5	4652.9	9025.3	18035.2	26044.2	26468.7	23151.4	13917.7	7061.0
62.5°	1351.1	1380.3	1473.7	2089.0	3987.0	11203.9	22557.6	25421.3	23312.9	13516.6	6619.1
65°	1117.5	1119.4	1131.1	1434.8	1909.8	4687.9	16981.9	21975.5	22913.8	12802.1	5992.3
67.5°	957.9	975.4	1020.1	1138.9	1347.2	2055.8	9776.9	17022.8	20486.2	11139.6	5014.9
70°	755.3	778.7	835.2	936.4	1039.6	1286.8	3613.2	11326.5	15650.3	8396.5	3792.4
72.5°	636.6	634.7	663.9	761.2	825.4	905.3	1390.0	6346.6	9095.4	4008.5	1876.7
75°	492.5	512.0	549.0	636.6	675.6	656.1	753.4	2318.7	3259.0	1214.8	638.6
77.5°	385.5	401.1	434.1	519.8	558.7	465.2	434.1	829.3	1047.3	436.0	288.1
80°	173.2	186.9	295.9	383.6	455.5	321.2	235.5	424.5	465.2	198.5	146.0
82.5°	31.2	52.6	173.2	202.4	233.6	208.3	122.7	220.0	227.8	79.8	50.6
85°	1.9	3.9	60.4	74.0	93.5	68.2	37.0	87.6	76.0	27.3	19.5
87.5°	0.0	0.0	0.0	1.9	1.9	9.7	11.7	15.6	11.7	9.7	7.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1	7608.1
2.5°	7485.5	7209.0	6940.4	6720.3	6591.9	6373.9	6229.7	6206.4	6146.0	6198.6
5°	7341.4	6846.9	6346.6	5898.8	5530.9	5055.8	4701.5	4551.6	4421.1	4465.9
7.5°	7273.2	6492.6	5713.9	4948.8	4162.2	3403.0	2838.4	2602.9	2423.7	2449.0
10°	7181.8	6124.6	4904.0	3735.9	2682.7	1933.2	1543.9	1399.7	1319.9	1321.8
12.5°	7111.7	5684.6	3963.7	2532.8	1633.3	1234.3	1113.6	1078.5	1055.1	1057.1
15°	7076.6	5166.8	3035.0	1687.9	1168.1	1045.4	1016.2	1000.6	985.1	983.2
17.5°	7018.2	4590.6	2221.3	1232.4	1022.0	979.3	954.0	936.4	917.0	913.1
20°	6930.6	3936.4	1623.6	1041.5	957.9	924.8	889.7	866.3	843.0	839.1
22.5°	6769.0	3245.4	1247.9	963.7	911.1	874.1	831.3	804.0	780.6	776.7
25°	6469.2	2597.0	1051.2	915.0	870.2	825.4	778.7	741.7	720.3	716.4
27.5°	6089.6	2040.3	954.0	870.2	817.6	776.7	724.2	689.2	669.7	665.8
30°	5641.8	1571.0	897.5	819.6	755.3	720.3	673.6	644.4	632.7	632.7
32.5°	5159.0	1255.7	874.1	769.0	700.9	661.9	624.9	613.3	609.4	607.4
35°	4705.4	1090.2	862.4	728.1	652.2	615.2	599.6	601.6	609.4	609.4
37.5°	4302.4	1037.6	856.6	698.9	609.4	576.3	586.0	603.5	595.7	595.7
40°	3938.4	1043.4	852.7	677.5	574.3	554.8	574.3	560.7	541.2	539.3
42.5°	3660.0	1092.1	844.9	660.0	552.9	539.3	531.5	510.0	508.1	512.0
45°	3457.5	1135.0	843.0	652.2	529.5	504.2	494.5	473.0	512.0	521.7
47.5°	3218.1	1135.0	843.0	624.9	490.6	480.8	465.2	441.9	480.8	490.6
50°	2908.5	1062.9	809.9	593.8	459.4	453.6	426.3	397.2	389.4	395.2
52.5°	2517.2	932.5	726.1	550.9	428.2	416.7	383.6	362.1	356.3	356.3
55°	2071.4	780.6	613.3	488.6	395.2	373.8	350.4	340.7	334.9	331.0
57.5°	1684.0	640.5	492.5	434.1	364.1	336.8	329.0	317.3	307.6	301.8
60°	1382.2	504.2	406.9	385.5	332.9	307.6	305.7	290.1	264.8	260.9
62.5°	1066.8	369.9	342.7	334.9	301.8	280.3	276.4	245.3	206.3	198.5
65°	753.4	288.1	276.4	294.0	268.7	249.2	239.4	192.7	151.8	146.0
67.5°	529.5	241.4	218.0	257.0	233.6	208.3	202.4	163.5	126.6	122.7
70°	377.7	196.6	179.1	220.0	186.9	183.0	171.3	136.3	103.2	99.3
72.5°	266.7	149.9	138.3	190.8	128.5	157.6	140.2	105.2	77.9	74.0
75°	196.6	107.1	97.4	111.0	93.5	118.8	99.3	70.1	48.7	46.7
77.5°	144.0	68.2	58.4	54.5	54.5	74.0	54.5	29.2	21.4	19.5
80°	101.3	31.2	27.3	23.4	21.4	17.5	7.8	3.9	1.9	1.9
82.5°	60.4	13.6	13.6	9.7	5.8	0.0	0.0	0.0	0.0	0.0
85°	13.6	5.8	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.9	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

(END OF REPORT)