

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: P970396

Luminaire Tested: **NAV-SB6B-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970396
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-SB6B-740-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA 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: 31352.7 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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



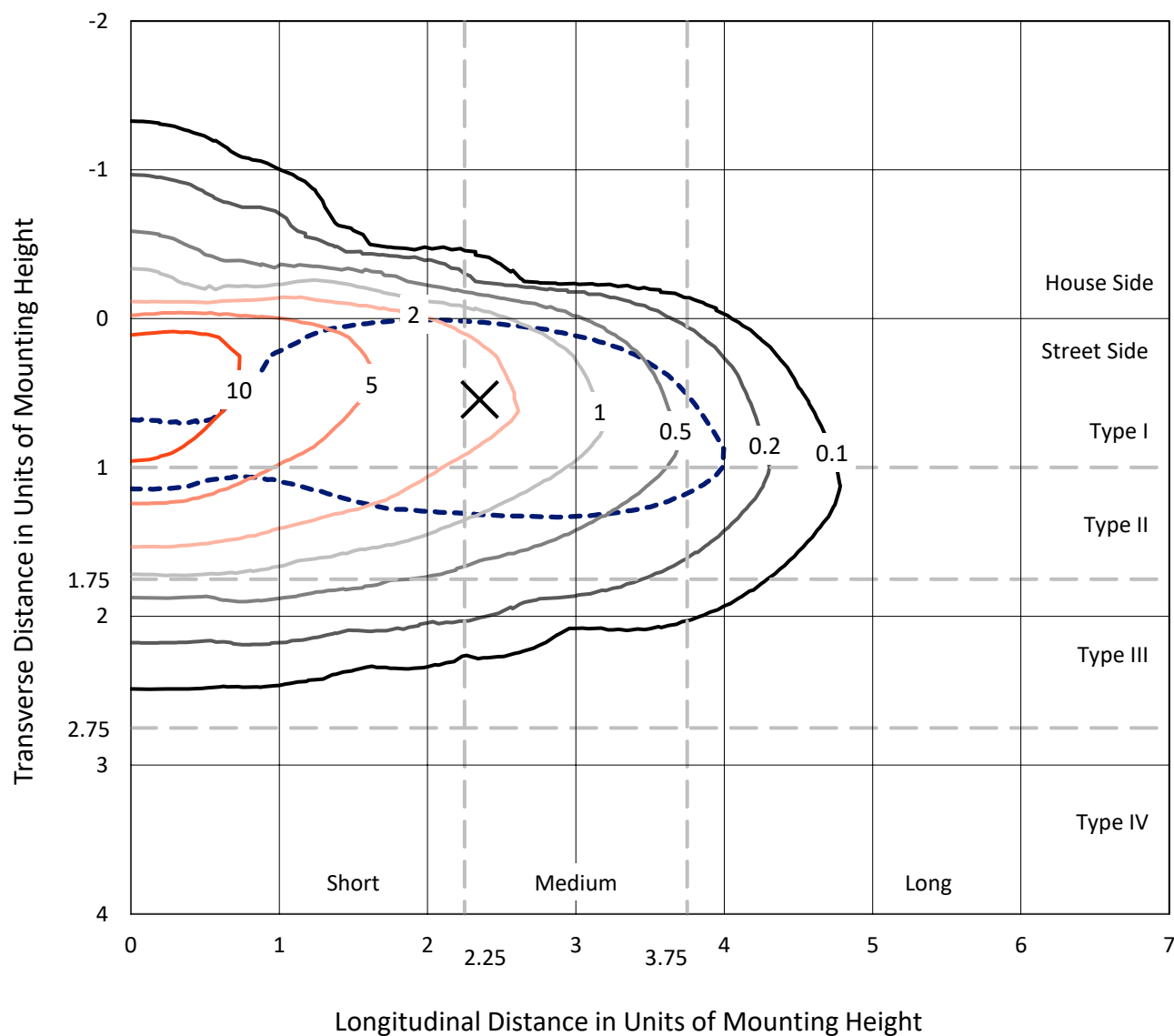
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

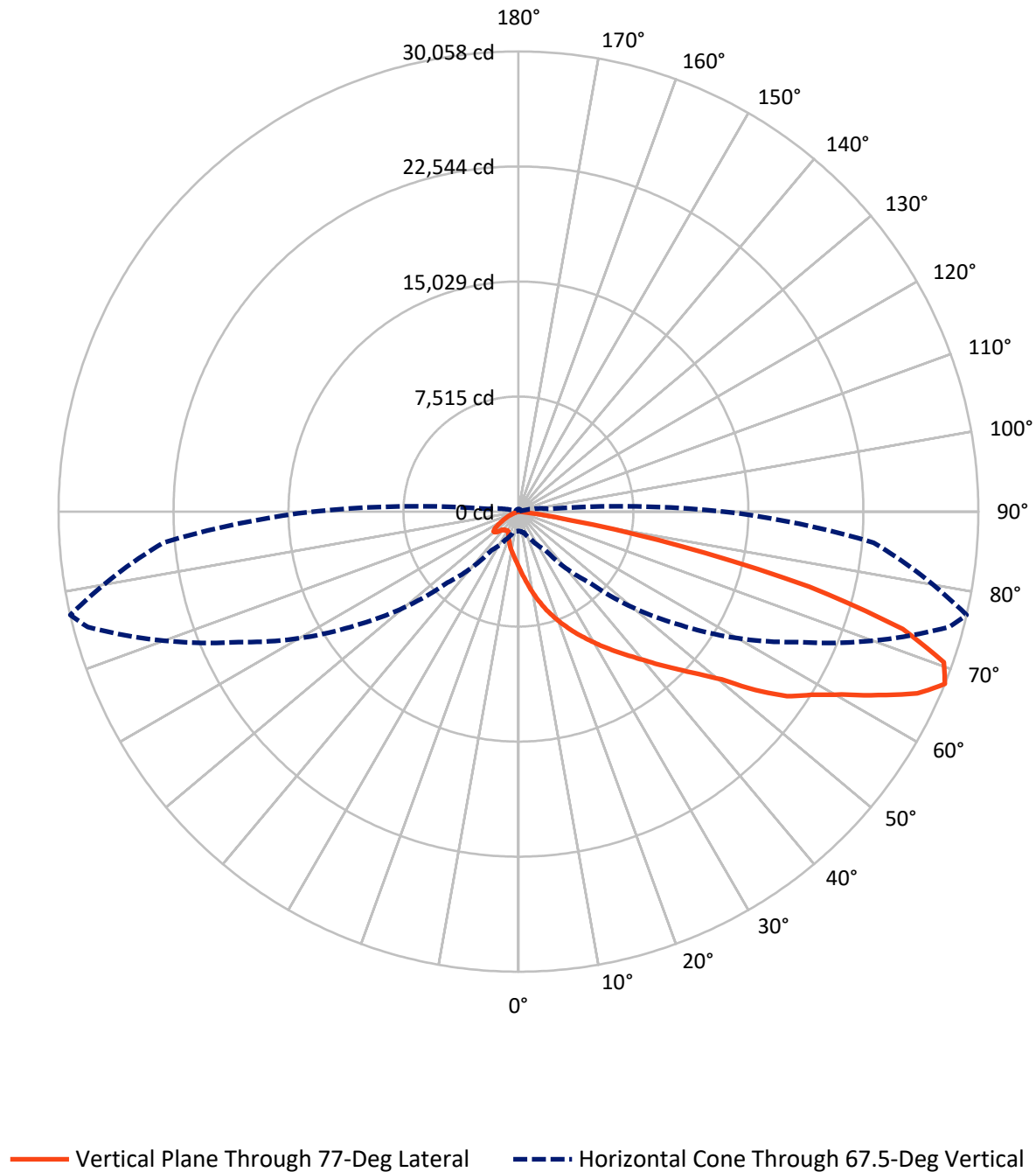
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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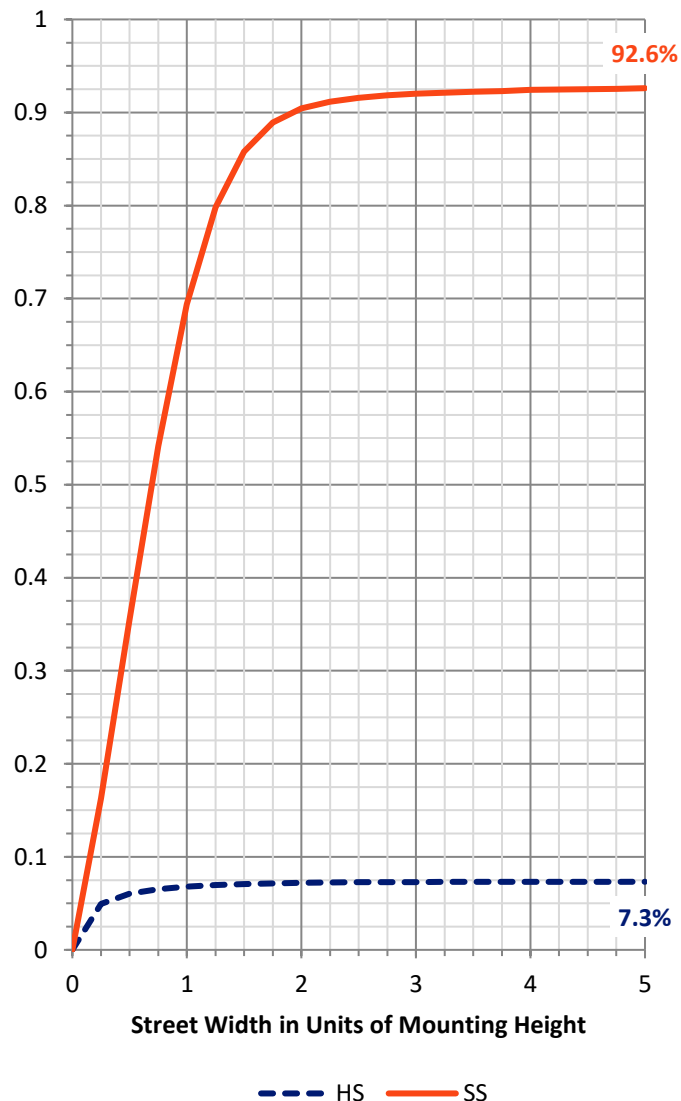
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2306.6	0.0	2306.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	29046.1	0.0	29046.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	31352.7	0.0	31352.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.0	1.2
10°-20°	1292.2	4.1
20°-30°	2493.7	8.0
30°-40°	4329.2	13.8
40°-50°	6285.7	20.0
50°-60°	7218.3	23.0
60°-70°	6266.9	20.0
70°-80°	2951.8	9.4
80°-90°	146.0	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°	31352.7	100.0
0°-180°	31352.7	100.0

Coefficient of Utilization



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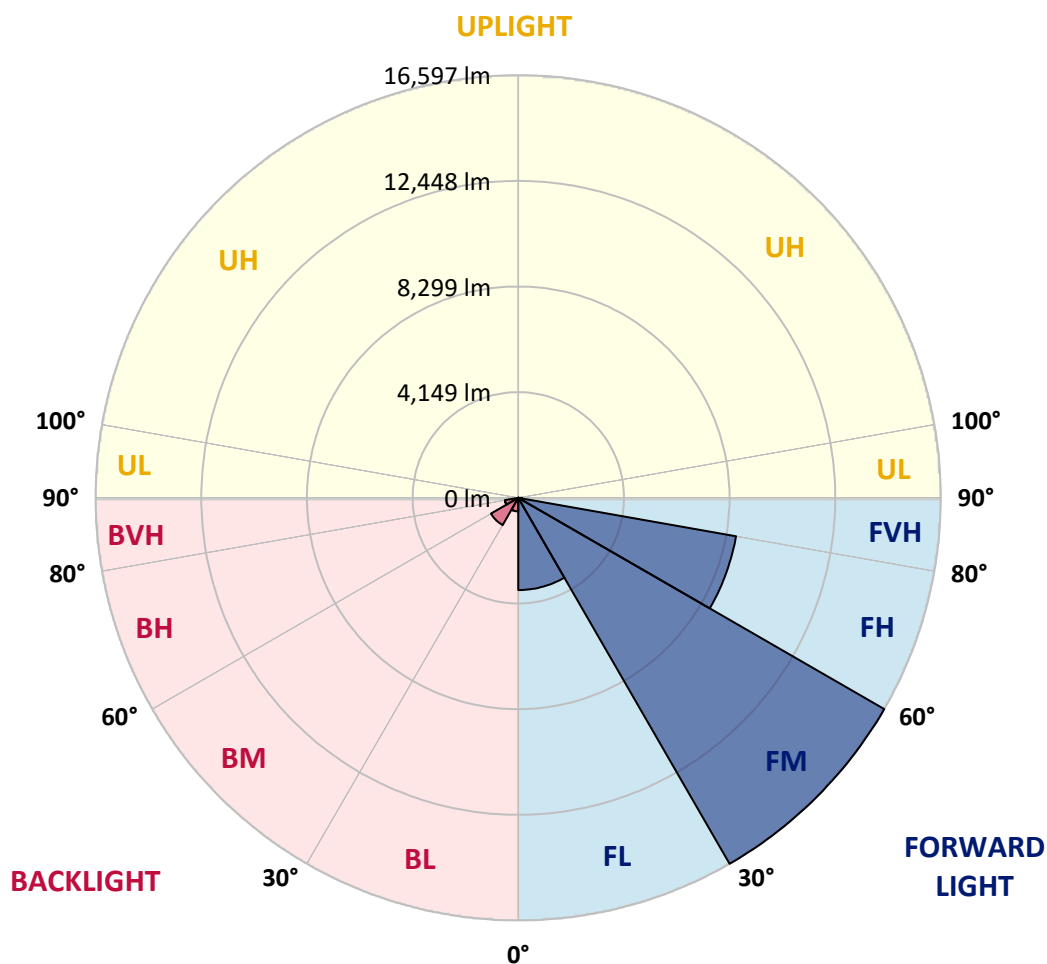
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3620.9	11.5			
FM	(30°-60°)	16597.3	52.9			
FH	(60°-80°)	8684.6	27.7			G4/12000
FVH	(80°-90°)	143.3	0.5			G2/225
BL	(0°-30°)	534.0	1.7	B2/1000		
BM	(30°-60°)	1235.9	3.9	B2/2500		
BH	(60°-80°)	534.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	2.7	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4
2.5°	5005.5	5036.6	4991.9	4906.3	4777.7	4694.0	4489.6	4296.8	4082.7	4014.5	3800.4
5°	6101.6	6128.9	6078.2	5984.9	5813.5	5650.0	5381.2	4978.2	4559.7	4425.3	4045.7
7.5°	6913.5	6929.1	6909.6	6823.9	6660.4	6475.4	6175.6	5698.6	5077.5	4929.6	4347.4
10°	7497.6	7548.2	7542.4	7509.3	7400.2	7250.3	6931.0	6387.8	5657.8	5466.9	4688.1
12.5°	7885.0	7941.5	7974.6	8048.6	8042.8	7947.3	7667.0	7092.6	6236.0	6012.0	5071.7
15°	7998.0	8058.3	8184.8	8356.2	8508.0	8556.7	8360.1	7783.7	6872.6	6586.4	5465.0
17.5°	7933.7	8027.2	8179.0	8449.6	8782.5	9002.6	8981.2	8451.5	7450.8	7123.7	5850.5
20°	8075.8	8165.4	8284.2	8511.9	8899.4	9298.5	9458.1	9090.2	8025.2	7682.6	6255.5
22.5°	8862.4	8846.8	8858.5	8895.5	9127.1	9522.4	9851.4	9670.4	8593.7	8243.3	6683.8
25°	10108.4	10038.3	9919.5	9719.0	9660.6	9851.4	10194.0	10184.3	9193.3	8817.6	7121.8
27.5°	11537.4	11525.7	11247.3	10764.6	10491.9	10418.0	10581.5	10684.7	9787.1	9386.1	7561.8
30°	12906.1	12937.2	12561.5	12024.2	11523.8	11233.7	11085.8	11159.7	10390.7	9999.4	8015.5
32.5°	14097.6	14130.8	13721.9	13093.0	12473.9	12123.5	11812.0	11628.9	11048.8	10622.4	8513.9
35°	15104.2	15137.3	14668.1	13973.0	13313.0	12995.7	12643.3	12143.0	11710.7	11313.5	9068.8
37.5°	16003.6	15993.9	15365.1	14664.2	14015.8	13764.7	13579.7	12775.7	12392.1	12008.6	9684.0
40°	16535.2	16576.1	16038.7	15265.7	14636.9	14453.9	14442.2	13560.2	13178.7	12806.9	10357.6
42.5°	16690.9	16763.0	16373.6	15738.9	15168.5	14969.8	15275.5	14409.1	14093.7	13731.6	11118.9
45°	16410.6	16480.7	16303.4	15863.5	15530.6	15402.1	15991.9	15289.1	15071.1	14712.8	11977.4
47.5°	15592.9	15680.4	15723.3	15629.8	15625.9	15756.4	16634.5	16215.9	16231.5	15865.5	12972.3
50°	14010.0	14158.0	14551.3	14882.3	15394.3	16036.7	17259.5	17220.5	17539.8	17224.4	14268.9
52.5°	11132.5	11342.8	12697.8	13603.1	14753.7	15984.2	17946.7	18832.5	19835.2	19373.8	16097.1
55°	8946.1	8946.1	10048.1	11741.9	13503.9	15637.6	18246.5	19880.0	21398.6	21289.6	17384.0
57.5°	7293.2	7380.7	8083.6	9580.8	11695.1	14812.2	18431.4	20538.0	22658.2	22578.4	18641.8
60°	4501.3	4690.1	6017.9	7495.6	9637.3	13342.2	18314.7	21203.9	24186.5	24250.8	20156.4
62.5°	2534.9	2604.9	3196.9	5392.9	7493.7	11366.1	17421.0	21575.7	26141.3	26413.8	21717.9
65°	1750.3	1785.3	2013.1	3356.5	5194.4	9049.3	15674.6	21344.1	28099.9	28650.8	23041.8
67.5°	1271.3	1288.8	1431.0	2050.1	3082.0	6561.1	12937.2	20175.9	29137.6	30058.4	23294.9
70°	977.3	989.0	1092.2	1347.3	1820.4	4049.6	9395.9	17853.2	28386.0	29486.1	21998.2
72.5°	794.4	806.1	885.8	996.8	1207.0	2394.7	5694.7	14498.7	25068.5	26256.1	18727.4
75°	669.7	685.3	757.4	829.4	946.2	1538.1	2671.1	10096.8	18852.0	19630.8	13022.9
77.5°	371.9	342.7	615.2	687.3	798.3	973.4	1249.9	5942.0	10558.1	10774.3	5778.4
80°	231.6	239.4	488.7	552.9	613.3	490.7	572.4	2287.6	3660.2	3477.2	1119.5
82.5°	13.6	31.2	375.8	399.1	420.6	210.2	216.1	776.8	881.9	810.0	198.5
85°	0.0	0.0	171.4	138.3	146.1	60.4	62.3	181.0	118.8	128.5	38.9
87.5°	0.0	0.0	0.0	3.9	0.0	5.8	11.7	15.6	5.8	7.8	13.6
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°	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4
2.5°	3664.1	3527.8	3251.4	2980.7	2760.7	2556.4	2410.3	2272.0	2202.0	2198.1	2194.2
5°	3775.1	3488.9	2935.9	2447.3	2054.0	1738.6	1534.2	1388.2	1314.2	1288.8	1284.9
7.5°	3930.9	3500.6	2659.5	1980.0	1516.7	1246.0	1129.2	1082.5	1066.9	1049.4	1045.5
10°	4127.5	3527.8	2412.2	1594.5	1195.5	1059.1	1012.4	992.9	981.2	969.5	965.7
12.5°	4347.4	3553.2	2167.0	1323.9	1051.3	981.2	948.1	924.8	909.2	895.5	891.6
15°	4561.7	3568.7	1911.8	1135.1	977.3	920.9	885.8	860.5	839.2	823.6	821.6
17.5°	4773.8	3590.2	1672.4	1022.1	917.0	860.5	825.5	794.4	776.8	759.3	757.4
20°	5009.4	3586.3	1446.6	942.3	856.7	800.2	763.2	734.0	716.5	697.0	695.1
22.5°	5227.5	3566.8	1247.9	874.1	794.4	739.8	698.9	669.7	652.2	636.6	634.7
25°	5478.6	3551.2	1082.5	811.9	735.9	681.4	636.6	609.4	589.9	576.3	574.3
27.5°	5720.0	3527.8	961.8	755.4	679.5	626.9	584.0	552.9	535.4	525.6	525.6
30°	5957.6	3522.0	917.0	700.9	628.8	576.3	533.4	504.3	490.7	486.8	484.8
32.5°	6243.8	3537.6	936.4	681.4	582.1	529.5	488.7	467.3	453.7	453.7	453.7
35°	6549.4	3533.7	965.7	698.9	550.9	482.9	451.7	438.1	424.5	424.5	424.5
37.5°	6933.0	3539.5	989.0	728.2	539.3	443.9	426.4	408.9	401.1	401.1	401.1
40°	7505.4	3732.2	977.3	753.5	535.4	416.7	381.6	375.8	369.9	369.9	369.9
42.5°	8206.3	4150.8	992.9	755.4	533.4	397.2	350.4	362.1	348.5	346.6	344.6
45°	8973.4	4608.4	1092.2	714.5	531.5	387.4	334.9	348.5	327.1	327.1	327.1
47.5°	9734.6	5062.0	1193.5	656.1	525.6	385.5	321.2	313.4	307.6	309.5	309.5
50°	10784.0	5431.9	1232.4	576.3	512.1	381.6	295.9	297.9	294.0	297.9	297.9
52.5°	11926.8	5509.8	1185.7	486.8	473.1	369.9	278.4	286.2	284.2	288.1	288.1
55°	12639.4	5426.0	979.3	405.0	412.8	323.2	260.9	276.4	276.4	276.4	276.4
57.5°	13375.3	5069.8	695.1	329.0	342.7	264.8	245.3	266.7	264.8	262.8	262.8
60°	13904.8	4493.5	457.6	270.6	272.5	218.0	227.8	251.1	249.2	239.4	239.4
62.5°	14300.1	3856.9	294.0	229.7	208.3	196.6	208.3	227.8	220.0	198.5	194.6
65°	14255.3	2974.9	225.8	196.6	171.4	171.4	181.0	198.5	175.2	140.2	136.3
67.5°	13424.0	2013.1	186.9	165.5	144.1	142.2	150.0	165.5	150.0	118.8	114.9
70°	11938.5	1316.1	150.0	128.5	114.9	105.2	120.7	142.2	126.6	95.4	91.5
72.5°	9689.8	802.2	113.0	93.5	83.7	68.2	95.4	116.8	101.3	70.1	66.2
75°	6269.1	408.9	77.9	60.4	44.8	40.9	70.1	87.6	70.1	42.8	37.0
77.5°	2398.6	171.4	42.8	27.3	23.4	19.5	38.9	52.6	29.2	9.7	7.8
80°	461.5	72.1	21.4	13.6	11.7	7.8	5.8	3.9	0.0	0.0	0.0
82.5°	79.8	23.4	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	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)