

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: P964667

Luminaire Tested: **NAV-SB3C-760-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964667
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-SB3C-760-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 615mA 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: 20286.8 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 149.1
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

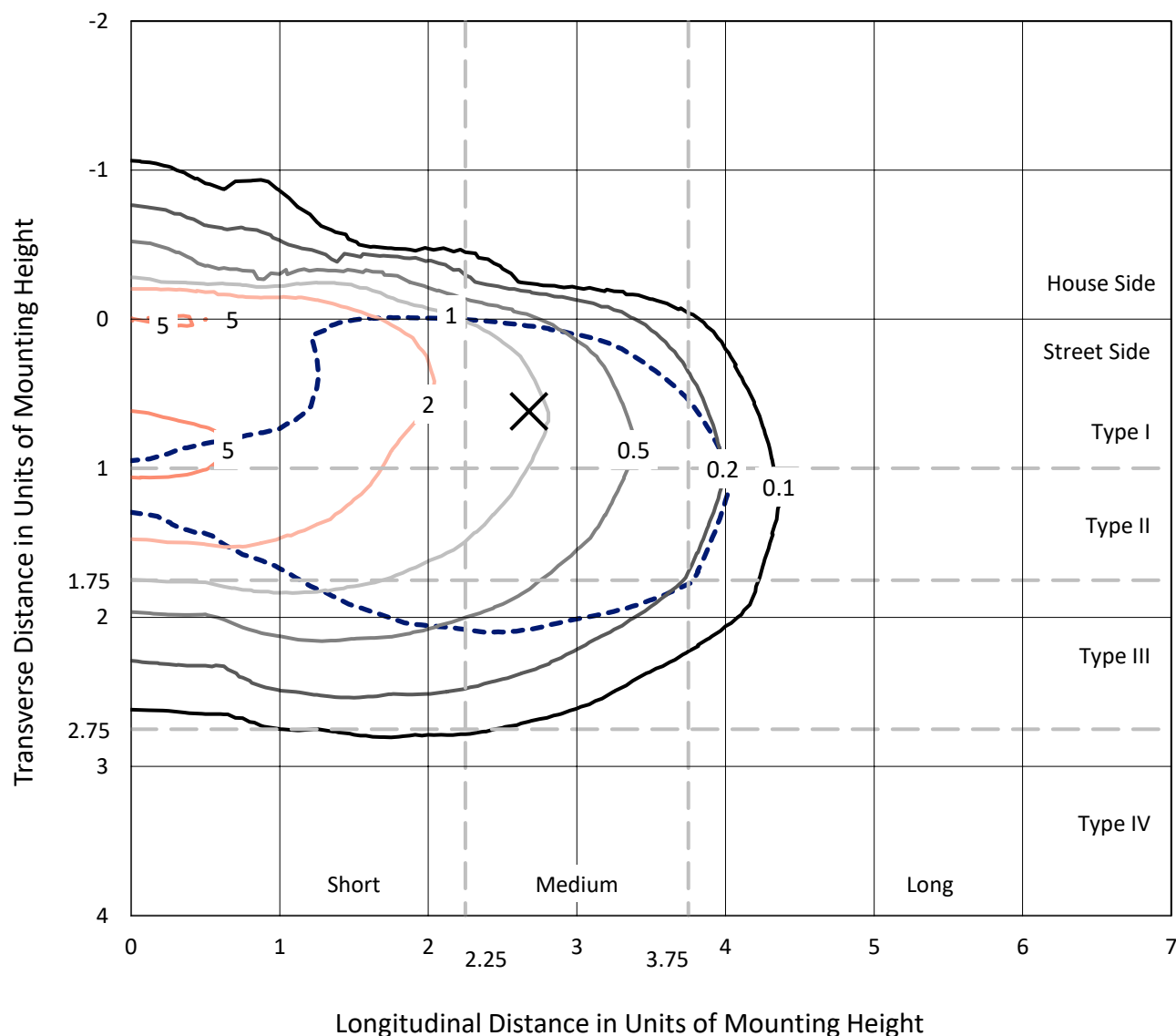


REPORT NUMBER: P964667

CATALOG NUMBER: NAV-SB3C-760-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

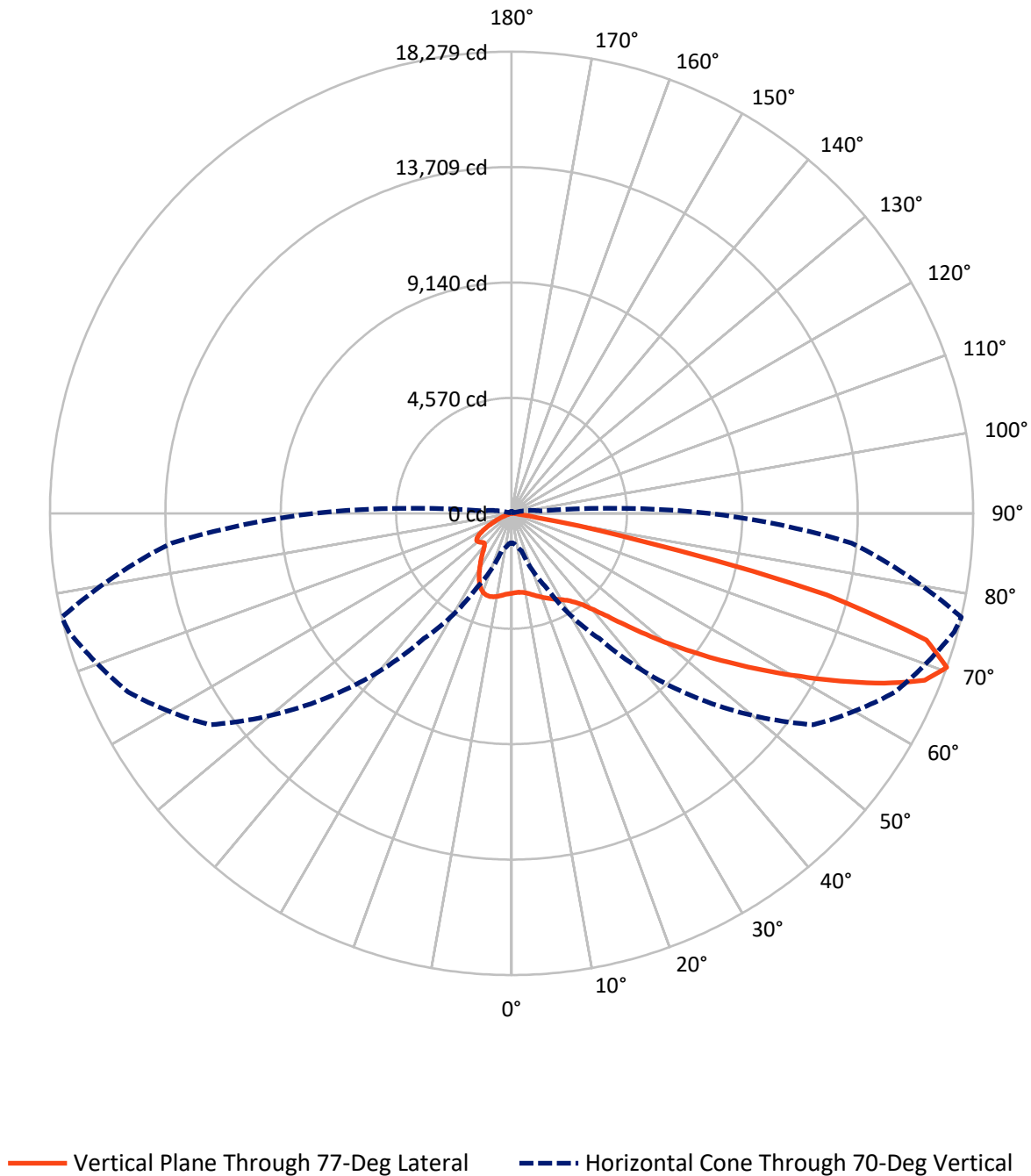
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P964667
CATALOG NUMBER: NAV-SB3C-760-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P964667

CATALOG NUMBER: NAV-SB3C-760-U-T3R-HSS

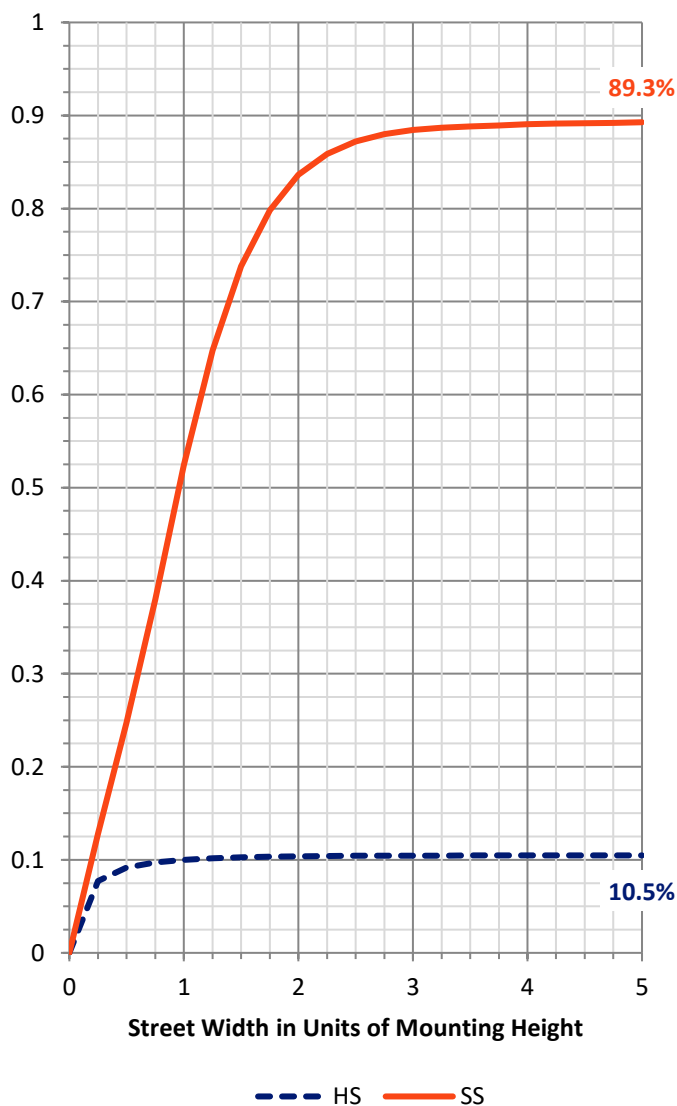
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2138.5	0.0	2138.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18148.3	0.0	18148.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	20286.8	0.0	20286.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.3
10°-20°	647.4	3.2
20°-30°	1001.4	4.9
30°-40°	1817.0	9.0
40°-50°	3429.8	16.9
50°-60°	4955.8	24.4
60°-70°	5275.3	26.0
70°-80°	2795.5	13.8
80°-90°	91.8	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°	20286.8	100.0
0°-180°	20286.8	100.0

Coefficient of Utilization



REPORT NUMBER: P964667

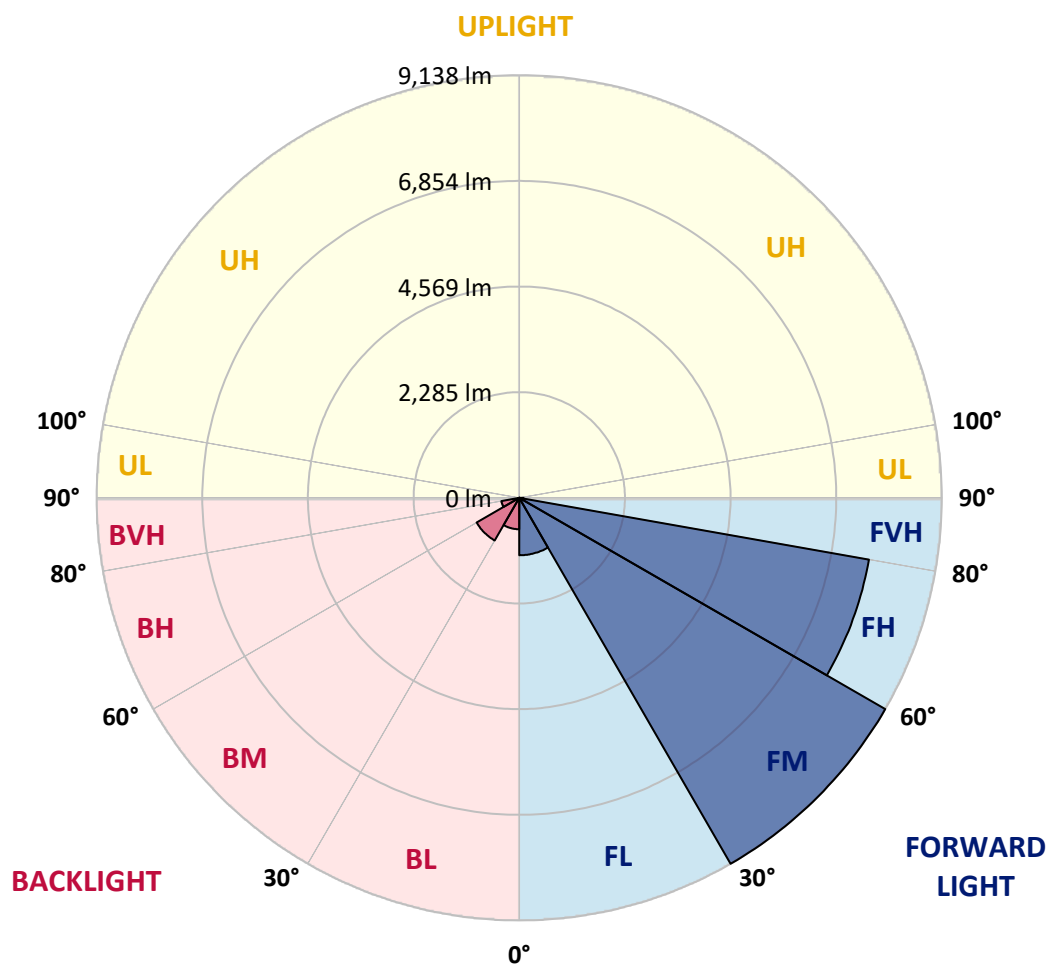
CATALOG NUMBER: NAV-SB3C-760-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1242.0	6.1			
FM	(30°-60°)	9138.1	45.0			
FH	(60°-80°)	7678.8	37.9			G4/12000
FVH	(80°-90°)	89.3	0.4			G1/100
BL	(0°-30°)	679.4	3.3	B2/1000		
BM	(30°-60°)	1064.6	5.2	B2/2500		
BH	(60°-80°)	392.0	1.9	B1/500		G1/500
BVH	(80°-90°)	2.5	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 III Medium



REPORT NUMBER: P964667

CATALOG NUMBER: NAV-SB3C-760-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4
2.5°	2971.0	2997.8	2994.0	3012.0	3018.3	3043.9	3069.6	3104.2	3142.5	3141.3	3166.9
5°	2803.1	2830.0	2836.4	2860.8	2891.5	2931.2	2983.8	3053.0	3124.6	3136.2	3187.4
7.5°	2604.5	2632.7	2649.3	2698.0	2754.4	2836.4	2922.3	3023.4	3142.5	3159.3	3257.9
10°	2406.0	2431.6	2453.3	2522.5	2612.2	2733.9	2873.6	3019.6	3179.8	3204.0	3343.8
12.5°	2283.0	2307.3	2331.7	2391.8	2503.4	2651.9	2841.5	3037.6	3241.3	3275.8	3460.3
15°	2239.4	2261.1	2280.4	2334.2	2438.0	2607.1	2835.1	3074.7	3319.4	3365.5	3601.2
17.5°	2245.8	2257.4	2270.2	2311.2	2412.3	2586.6	2846.6	3138.8	3411.6	3452.6	3742.2
20°	2283.0	2289.3	2290.7	2318.9	2408.5	2584.0	2869.7	3200.3	3498.7	3553.9	3881.8
22.5°	2330.3	2332.9	2330.3	2349.6	2432.8	2603.2	2900.4	3274.6	3596.1	3647.4	4022.7
25°	2552.0	2503.4	2441.9	2404.6	2473.8	2640.4	2946.6	3374.5	3702.4	3752.4	4159.8
27.5°	3239.9	3100.3	2879.9	2632.7	2558.4	2694.2	3010.6	3475.7	3810.0	3854.9	4307.2
30°	4357.1	4173.9	3799.8	3242.5	2830.0	2807.0	3094.0	3576.9	3924.1	3972.8	4464.7
32.5°	5476.8	5432.0	5000.3	4228.9	3441.1	3058.1	3232.2	3714.0	4075.3	4113.7	4677.4
35°	6609.3	6518.4	6164.8	5402.5	4382.7	3569.3	3462.9	3893.4	4273.8	4317.4	4987.4
37.5°	7476.7	7421.5	7202.5	6574.8	5499.8	4358.4	3857.5	4171.3	4562.1	4610.8	5384.5
40°	8242.7	8217.1	8142.8	7729.0	6748.9	5391.0	4471.2	4601.8	4961.8	5019.4	5871.4
42.5°	8844.8	8905.1	8947.3	8832.0	8036.5	6569.6	5296.2	5206.5	5519.1	5578.0	6491.4
45°	9461.1	9481.6	9652.0	9818.6	9315.1	7802.0	6226.3	5915.0	6212.2	6285.2	7234.6
47.5°	9856.9	9938.9	10238.7	10532.1	10389.9	9024.2	7225.5	6751.5	7015.4	7152.6	8067.3
50°	9886.4	10041.4	10454.0	10965.1	11172.7	10187.5	8311.9	7704.7	7985.3	8136.4	8956.3
52.5°	9395.8	9636.6	10275.9	11024.1	11595.4	11172.7	9435.4	8657.9	9017.8	9215.2	9878.7
55°	7203.8	7518.9	9605.9	10703.8	11612.1	11919.5	10529.5	9650.7	10168.3	10391.1	10875.5
57.5°	6276.2	6435.1	7552.2	10147.8	11303.4	12220.7	11518.5	10596.1	11419.9	11696.7	11817.1
60°	5221.9	5430.7	6333.9	9238.2	10884.4	12250.1	12392.4	11815.8	12776.6	13087.9	12680.6
62.5°	3548.8	3775.5	4673.5	7675.2	10311.8	12236.0	13108.4	13071.3	14284.5	14618.9	13412.1
65°	2198.4	2340.6	2932.5	6267.3	9511.1	12251.4	13857.9	14595.8	15875.7	16215.2	13978.3
67.5°	1737.2	1802.6	2111.3	4811.9	8131.3	11905.5	14606.0	16029.5	17373.3	17642.3	14151.3
70°	1167.1	1206.8	1536.1	3225.9	6049.4	10309.2	14592.0	16749.4	18144.6	18279.0	13521.0
72.5°	614.9	645.6	898.1	1493.8	3653.7	7328.0	12300.1	15888.5	17377.1	17174.7	11557.0
75°	307.5	358.7	604.6	758.4	1560.4	4086.8	7638.1	12526.8	13677.3	12893.3	7415.2
77.5°	233.2	281.9	499.7	499.7	543.1	1376.0	3234.8	6832.2	6301.8	5247.5	2176.6
80°	148.6	192.2	436.9	377.9	226.7	349.7	843.0	1914.0	1338.8	1018.5	395.9
82.5°	87.1	125.6	363.9	249.8	126.8	129.4	238.3	407.4	347.2	270.3	121.7
85°	34.5	82.0	249.8	98.6	49.9	32.0	71.8	87.1	71.8	53.8	30.7
87.5°	0.0	19.2	43.6	0.0	3.8	2.6	5.1	6.4	6.4	5.1	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P964667

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4	3164.4
2.5°	3178.4	3181.0	3188.7	3190.0	3172.1	3149.0	3140.0	3136.2	3120.8	3119.5	3122.0
5°	3216.9	3228.4	3216.9	3183.5	3104.2	2992.7	2908.1	2838.9	2776.2	2756.9	2745.5
7.5°	3293.7	3305.3	3270.7	3140.0	2940.2	2718.5	2518.7	2377.8	2250.9	2203.5	2184.3
10°	3403.9	3419.3	3310.4	3046.5	2692.9	2336.8	1998.5	1760.2	1574.5	1499.0	1466.9
12.5°	3542.3	3548.8	3332.2	2904.3	2371.3	1862.7	1383.6	1128.6	963.4	901.9	882.7
15°	3694.7	3685.8	3334.7	2710.8	1933.3	1317.0	903.2	741.8	675.2	654.7	654.7
17.5°	3854.9	3817.7	3283.5	2431.6	1452.8	900.7	670.0	631.6	620.0	614.9	613.7
20°	4012.5	3929.2	3190.0	2066.5	1042.8	672.6	608.5	597.0	590.6	588.0	585.5
22.5°	4156.0	4013.8	3029.9	1642.4	757.2	594.4	575.2	565.0	553.4	548.3	547.0
25°	4295.6	4062.5	2804.4	1246.5	606.0	556.0	540.6	521.4	506.0	499.7	497.1
27.5°	4431.4	4093.2	2522.5	922.4	540.6	520.1	492.0	465.0	453.6	451.0	448.4
30°	4576.2	4103.5	2202.2	688.0	500.9	475.3	434.3	403.5	397.2	398.4	398.4
32.5°	4752.9	4118.9	1879.4	563.6	467.6	421.5	372.8	340.8	335.7	340.8	339.5
35°	4964.4	4149.5	1568.0	518.9	438.2	366.4	313.9	287.0	281.9	285.7	284.4
37.5°	5251.3	4199.5	1277.3	509.9	413.8	320.3	263.9	242.1	242.1	243.4	242.1
40°	5633.1	4332.8	1017.2	503.5	401.0	285.7	222.9	213.9	217.8	220.4	220.4
42.5°	6098.1	4615.9	841.7	495.8	386.9	270.3	202.4	198.5	205.0	207.6	207.6
45°	6619.6	4974.6	780.2	483.0	374.1	280.5	193.4	188.3	196.0	197.3	198.5
47.5°	7158.9	5325.6	772.5	468.9	361.3	295.9	190.9	179.4	188.3	189.6	190.9
50°	7704.7	5555.0	780.2	447.1	340.8	295.9	192.2	170.4	178.0	181.9	183.2
52.5°	8254.3	5660.0	775.1	399.7	304.9	278.0	192.2	162.7	170.4	172.9	172.9
55°	8787.2	5639.5	696.9	329.2	258.8	246.0	187.1	156.3	161.4	162.7	162.7
57.5°	9208.7	5353.8	552.2	256.2	210.1	205.0	170.4	148.6	152.4	151.2	151.2
60°	9429.1	4726.1	394.6	197.3	165.2	161.4	149.9	138.4	140.9	134.5	133.2
62.5°	9431.6	3895.9	263.9	156.3	131.9	128.1	128.1	124.2	121.7	108.9	105.1
65°	9230.5	2974.8	175.5	124.2	106.3	99.9	107.6	106.3	97.4	79.4	76.9
67.5°	8774.4	1949.9	133.2	97.4	82.0	78.1	85.8	89.7	83.2	66.6	65.3
70°	7836.6	1135.1	110.2	75.5	61.5	57.6	69.2	76.9	69.2	53.8	51.2
72.5°	6509.4	612.3	89.7	56.4	42.2	38.4	55.0	62.7	55.0	39.7	38.4
75°	4223.8	328.0	69.2	37.1	21.7	24.3	41.0	46.1	38.4	25.6	23.1
77.5°	1418.2	144.7	43.6	17.9	10.2	10.2	24.3	28.2	17.9	8.9	7.7
80°	316.4	60.2	17.9	7.7	3.8	3.8	5.1	5.1	2.6	0.0	0.0
82.5°	103.7	24.3	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.7	8.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	1.2	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)