

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: P967797

Luminaire Tested: **NAV-SB5A-750-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-750-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19272 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.7
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



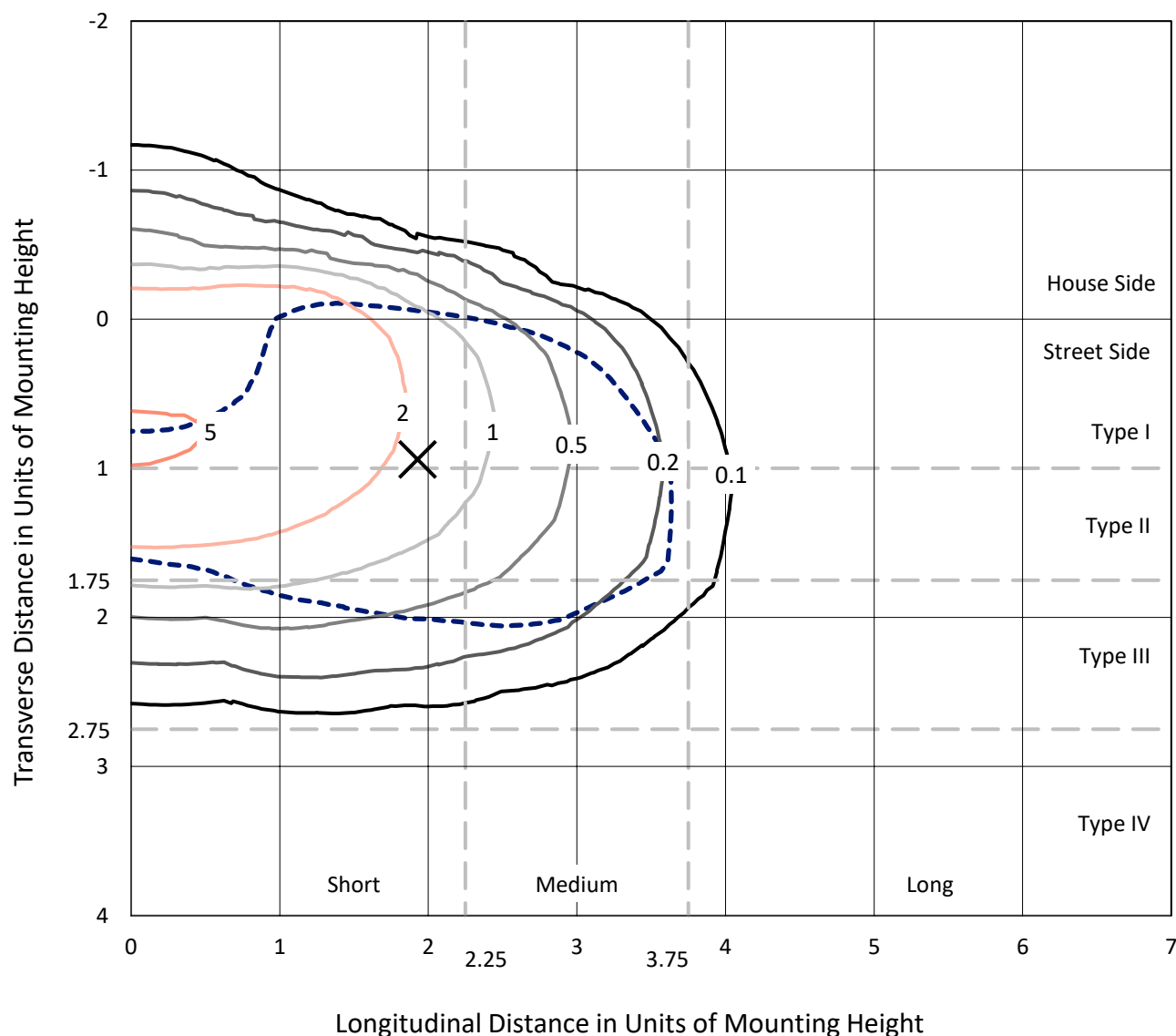
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



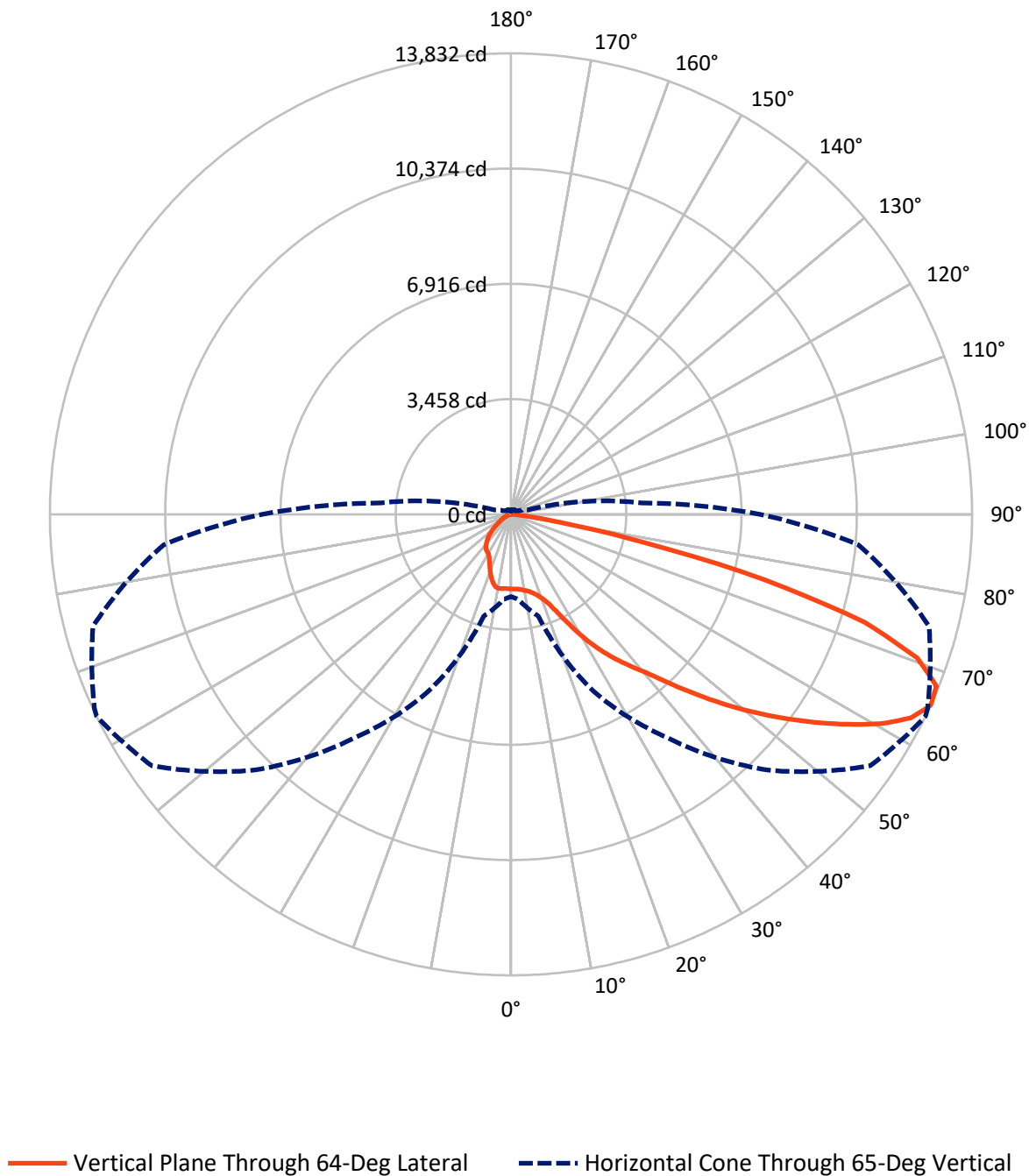
Based on 25 foot mounting height. Maximum calculated value = 5.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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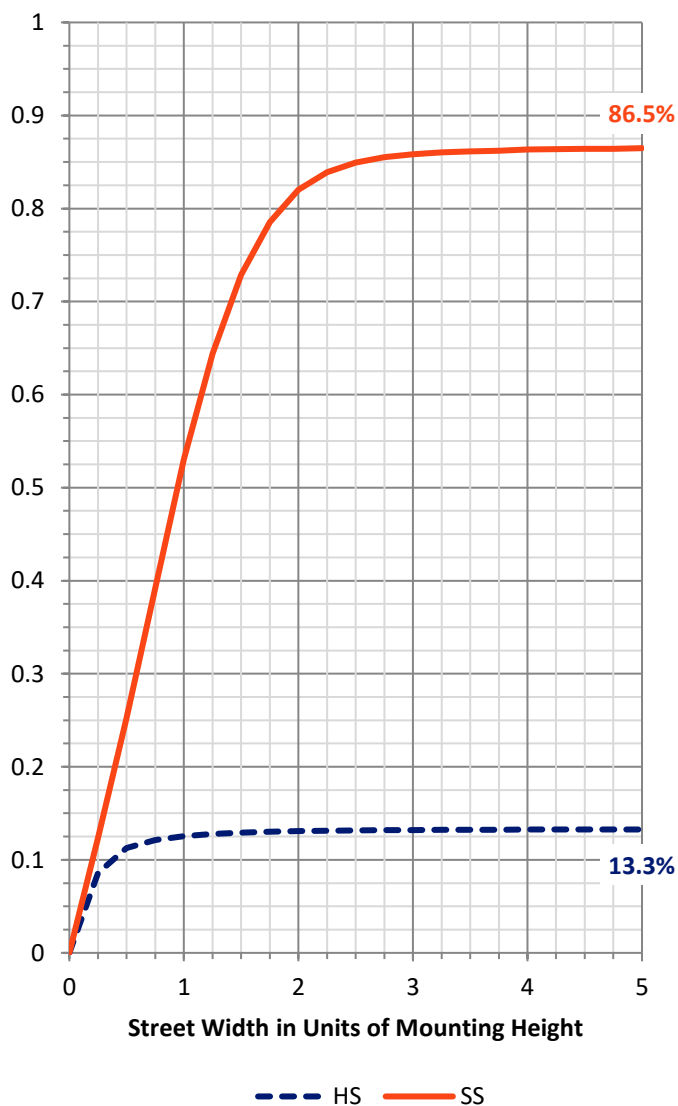
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2577.3	0.0	2577.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16694.8	0.0	16694.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	19272.0	0.0	19272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	1.1
10°-20°	560.9	2.9
20°-30°	1062.9	5.5
30°-40°	2150.8	11.2
40°-50°	3663.9	19.0
50°-60°	4982.6	25.9
60°-70°	4678.9	24.3
70°-80°	1874.6	9.7
80°-90°	90.8	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°	19272.0	100.0
0°-180°	19272.0	100.0

Coefficient of Utilization



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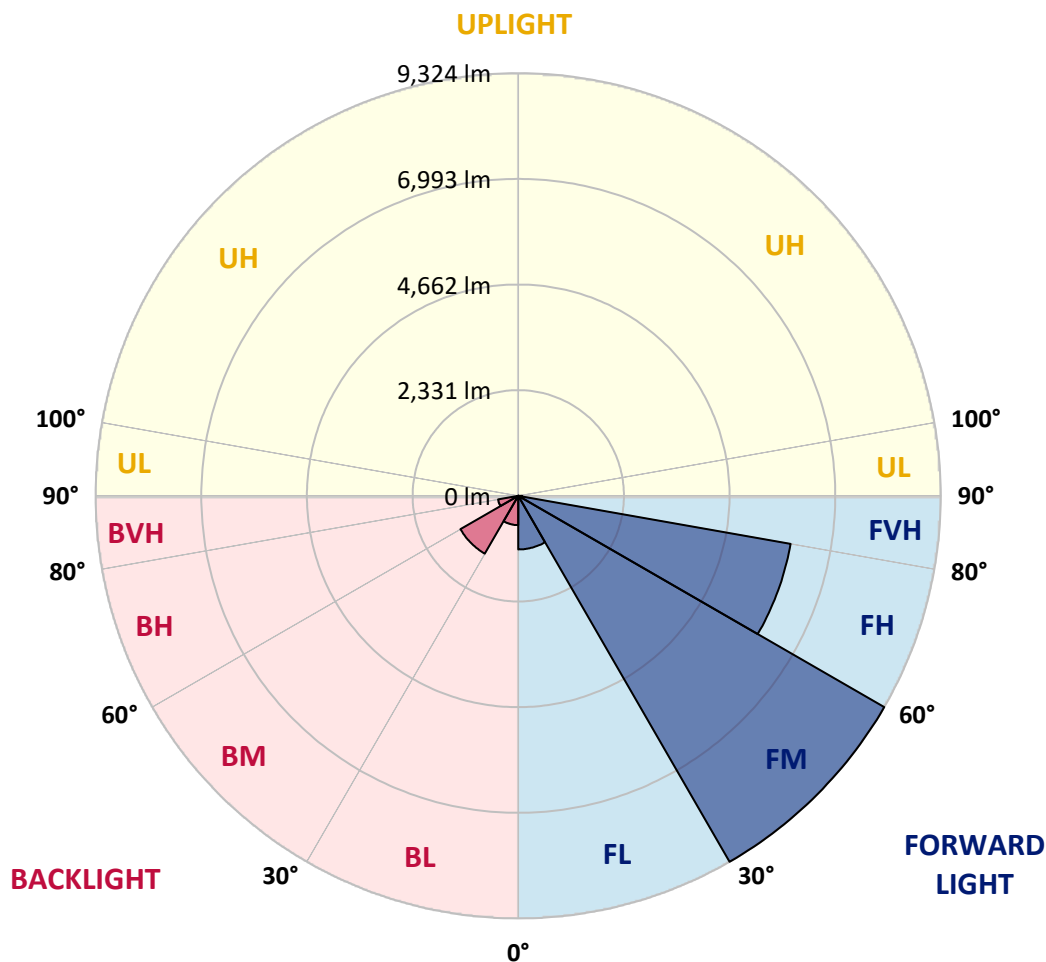
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.5	6.1			
FM	(30°-60°)	9323.8	48.4			
FH	(60°-80°)	6101.1	31.7			G3/7500
FVH	(80°-90°)	86.4	0.4			G1/100
BL	(0°-30°)	647.1	3.4	B2/1000		
BM	(30°-60°)	1473.4	7.6	B2/2500		
BH	(60°-80°)	452.4	2.3	B1/500		G1/500
BVH	(80°-90°)	4.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2233.8	2249.3	2245.4	2241.6	2240.2	2242.8	2244.1	2242.8	2242.8	2242.8	2244.1
5°	2191.1	2204.1	2204.1	2213.1	2226.0	2241.6	2253.2	2255.7	2258.4	2262.2	2260.9
7.5°	2109.8	2120.1	2127.8	2157.5	2189.9	2231.2	2266.1	2284.2	2286.8	2300.9	2306.1
10°	2054.2	2067.1	2080.0	2111.1	2157.5	2219.5	2279.0	2323.0	2329.4	2362.9	2378.5
12.5°	2051.6	2064.6	2081.4	2114.9	2169.2	2235.1	2307.5	2370.7	2382.4	2431.5	2463.8
15°	2078.8	2094.3	2109.8	2151.1	2209.3	2289.3	2366.8	2445.6	2457.3	2527.0	2562.0
17.5°	2134.4	2155.0	2166.6	2208.0	2270.0	2359.1	2461.1	2551.6	2562.0	2643.4	2687.2
20°	2244.1	2268.6	2272.5	2306.1	2366.8	2462.5	2583.9	2696.3	2709.2	2802.2	2851.3
22.5°	2471.5	2506.4	2475.4	2492.2	2546.4	2642.0	2773.9	2915.9	2934.1	3039.9	3083.9
25°	2872.0	2921.1	2841.0	2812.6	2835.9	2935.3	3100.7	3280.3	3300.9	3386.2	3408.1
27.5°	3658.8	3595.5	3474.0	3355.2	3285.4	3342.3	3528.4	3750.6	3776.4	3859.0	3833.2
30°	4523.1	4467.6	4303.5	4039.9	3874.6	3865.5	4037.4	4285.4	4315.1	4394.0	4315.1
32.5°	5388.7	5335.7	5157.5	4833.2	4546.4	4404.2	4523.1	4798.3	4813.8	4864.2	4747.9
35°	6240.1	6185.9	6007.6	5675.5	5322.8	4999.8	4976.6	5286.6	5291.9	5344.9	5171.7
37.5°	7096.7	7051.5	6861.6	6536.0	6188.4	5742.8	5527.0	5749.2	5755.7	5807.3	5627.8
40°	7707.8	7727.2	7596.7	7344.7	7046.4	6559.3	6144.6	6241.4	6202.7	6289.2	6182.0
42.5°	8232.3	8271.1	8157.4	8030.8	7857.6	7428.7	6909.3	6892.6	6830.6	6877.0	6765.9
45°	8685.8	8718.1	8616.0	8586.3	8582.4	8281.4	7745.3	7644.4	7557.9	7548.9	7415.8
47.5°	8852.5	8914.5	8958.4	9057.9	9251.6	9125.1	8609.6	8453.3	8356.3	8285.3	8074.7
50°	8915.8	8981.7	9131.5	9420.9	9879.6	9933.8	9470.0	9294.3	9175.5	9046.2	8736.2
52.5°	8830.5	8948.0	9149.7	9636.6	10302.1	10582.4	10295.6	10141.9	10006.2	9795.6	9335.7
55°	8327.9	8445.5	8857.6	9634.1	10512.6	11037.2	11075.9	11007.5	10855.0	10523.0	9820.1
57.5°	7268.5	7442.9	8095.3	9306.0	10508.7	11428.6	11840.8	11889.9	11719.3	11243.8	10201.3
60°	5800.9	6037.2	6833.2	8578.5	10184.5	11640.5	12511.3	12756.7	12575.8	11954.5	10510.0
62.5°	4047.7	4321.6	5074.8	7439.0	9442.9	11488.1	13000.9	13454.4	13317.4	12590.1	10628.9
65°	2468.9	2556.8	3164.0	5853.9	8182.0	10849.8	13152.1	13831.7	13786.5	12979.0	10453.2
67.5°	1644.6	1718.3	1892.7	4014.1	6351.2	9574.6	12790.4	13765.7	13778.7	12915.6	9809.8
70°	991.0	1054.2	1167.9	2334.5	4116.2	7578.6	11670.2	12926.0	13000.9	12069.5	8590.2
72.5°	408.3	450.9	554.2	1058.1	2131.7	4809.9	9293.1	11097.9	11272.3	10148.3	6592.8
75°	231.2	253.2	325.5	530.9	925.1	2241.6	5629.0	7878.4	8135.4	6994.6	3966.3
77.5°	153.8	164.1	210.6	343.7	520.7	764.9	2405.6	4104.5	4595.5	3820.3	1717.0
80°	103.3	112.4	144.7	230.0	338.5	328.2	766.1	1520.6	1870.7	1312.6	418.6
82.5°	69.8	71.0	103.3	151.2	214.4	158.9	226.1	472.8	594.3	379.9	158.9
85°	40.1	38.7	76.3	87.8	95.6	65.9	68.5	142.1	186.0	160.2	90.4
87.5°	5.1	7.8	29.7	23.3	12.9	14.2	14.2	24.5	36.2	38.7	19.4
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°	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6	2241.6
2.5°	2244.1	2242.8	2238.9	2235.1	2226.0	2220.9	2223.4	2220.9	2219.5	2220.9	2226.0
5°	2260.9	2257.0	2246.7	2233.8	2215.7	2193.7	2179.6	2158.9	2139.5	2127.8	2130.5
7.5°	2306.1	2302.3	2288.0	2251.9	2193.7	2102.0	2018.0	1944.4	1888.9	1856.6	1857.8
10°	2378.5	2372.1	2350.0	2270.0	2117.5	1917.3	1750.6	1612.3	1521.9	1479.3	1475.4
12.5°	2463.8	2456.0	2417.3	2253.2	1972.8	1660.2	1430.2	1276.4	1192.5	1155.0	1151.2
15°	2564.5	2554.2	2477.9	2173.1	1762.2	1376.0	1165.3	1050.3	996.1	962.5	963.8
17.5°	2689.8	2671.8	2523.1	2052.9	1533.5	1158.9	1002.6	916.0	868.2	835.9	833.3
20°	2852.7	2823.0	2559.3	1909.5	1323.0	1021.9	892.8	820.4	784.2	755.8	750.6
22.5°	3080.0	3037.4	2603.3	1754.5	1174.3	927.6	811.4	758.4	728.7	696.4	691.2
25°	3361.7	3311.3	2657.5	1611.1	1072.4	846.2	751.9	708.0	673.1	635.6	631.8
27.5°	3755.7	3665.3	2722.2	1493.5	984.5	776.4	697.6	648.5	608.5	577.5	571.0
30°	4195.0	4046.4	2779.0	1422.4	904.4	711.9	626.6	577.5	540.1	518.0	514.2
32.5°	4611.0	4409.4	2816.5	1391.4	832.0	638.3	549.1	496.1	467.7	461.2	465.1
35°	5003.7	4737.5	2812.6	1361.7	767.4	564.6	472.8	418.6	396.7	400.5	400.5
37.5°	5455.9	5087.7	2785.4	1315.2	714.4	497.4	406.9	359.2	339.8	341.1	346.2
40°	5981.7	5492.1	2768.6	1227.3	656.3	435.4	352.7	314.0	299.7	294.6	293.3
42.5°	6542.5	5883.6	2771.2	1127.9	583.9	379.9	315.2	282.9	270.0	266.2	264.9
45°	7105.7	6256.9	2775.1	1024.5	507.8	337.2	288.1	261.0	253.2	248.0	248.0
47.5°	7635.4	6574.8	2702.7	913.4	432.8	304.9	266.2	248.0	241.6	235.1	235.1
50°	8129.0	6786.6	2528.4	784.2	373.4	279.1	249.4	236.5	230.0	223.6	223.6
52.5°	8512.7	6820.2	2240.2	651.2	332.0	259.6	239.0	227.3	219.7	213.2	211.9
55°	8683.2	6609.6	1830.6	527.2	299.7	242.9	228.7	217.1	208.0	201.5	200.3
57.5°	8639.3	6166.5	1427.6	423.7	268.8	226.1	215.8	208.0	197.6	187.4	186.0
60°	8423.6	5573.4	1076.1	352.7	240.3	208.0	201.5	195.1	180.9	165.3	162.8
62.5°	8050.1	4828.1	767.4	292.0	209.3	187.4	184.7	179.6	158.9	130.5	127.9
65°	7479.1	3922.4	516.8	242.9	179.6	164.1	165.3	156.3	129.1	96.9	94.3
67.5°	6644.6	2868.2	330.8	199.0	149.9	136.9	138.3	133.0	109.8	82.7	78.8
70°	5581.2	1899.2	215.8	151.2	120.1	106.0	113.7	115.0	93.1	67.1	64.6
72.5°	4091.6	1121.5	151.2	112.4	87.8	73.6	93.1	95.6	74.9	50.4	47.8
75°	2332.0	532.3	113.7	81.4	54.2	51.7	72.4	72.4	51.7	33.6	31.1
77.5°	979.3	222.2	80.1	53.0	31.1	29.7	49.1	45.2	25.8	15.5	15.5
80°	282.9	99.5	42.6	25.8	12.9	11.6	19.4	14.2	6.5	2.6	2.6
82.5°	111.1	44.0	16.8	10.4	5.1	5.1	2.6	0.0	0.0	0.0	0.0
85°	65.9	18.0	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	3.9	2.6	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)