

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: P971616

Luminaire Tested: **NAV-SB6D-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45191.2 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 440.1
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



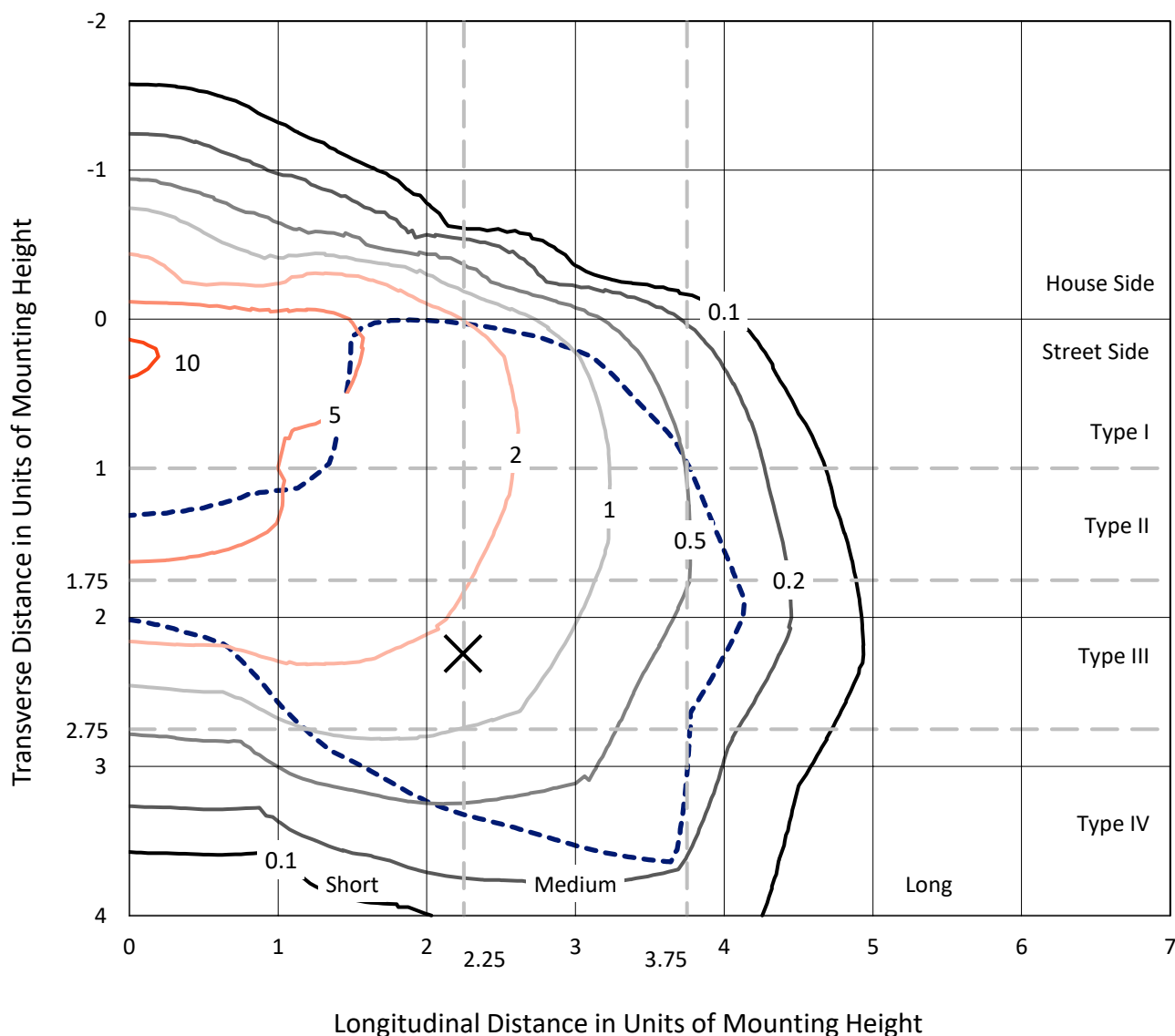
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

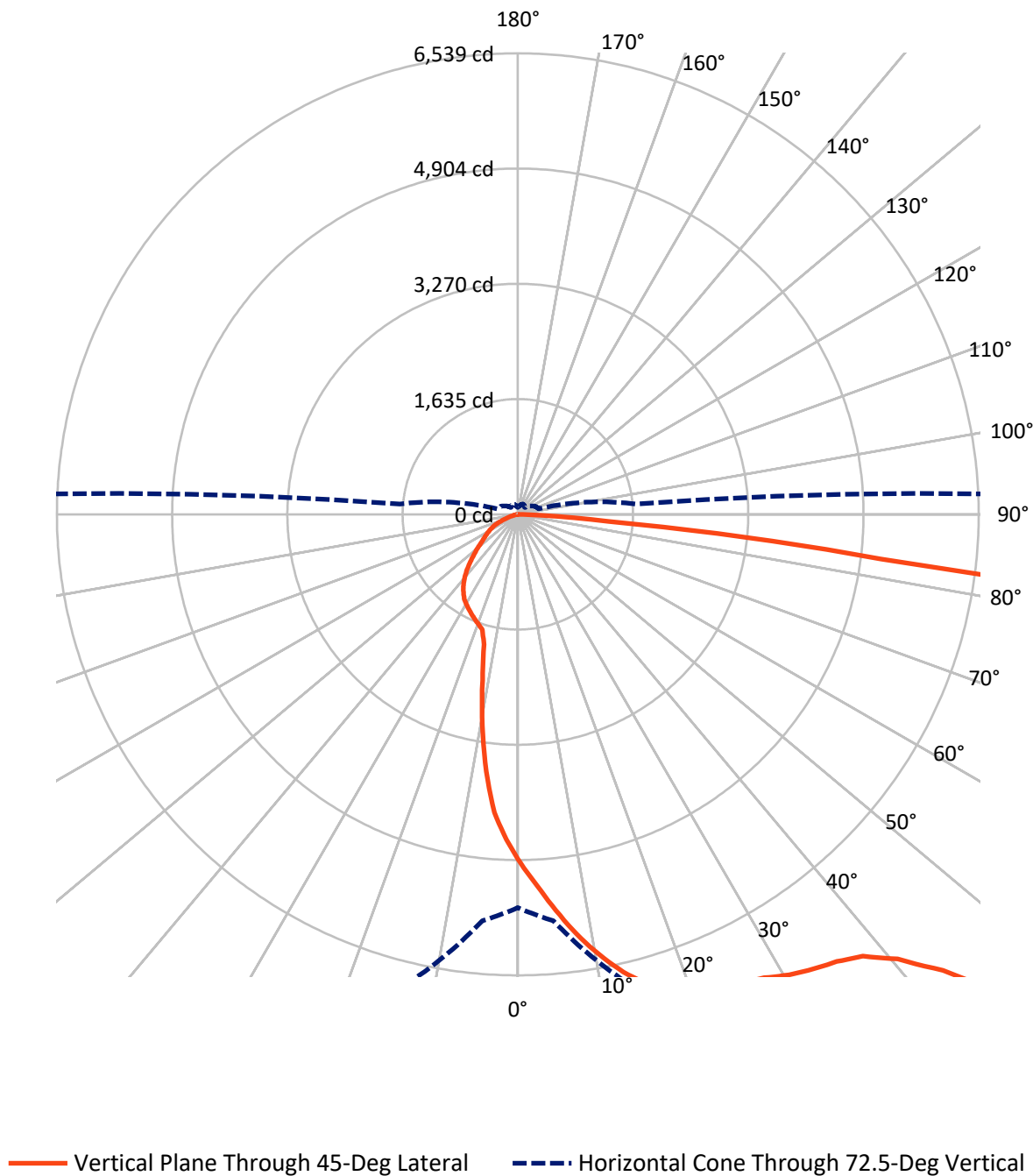


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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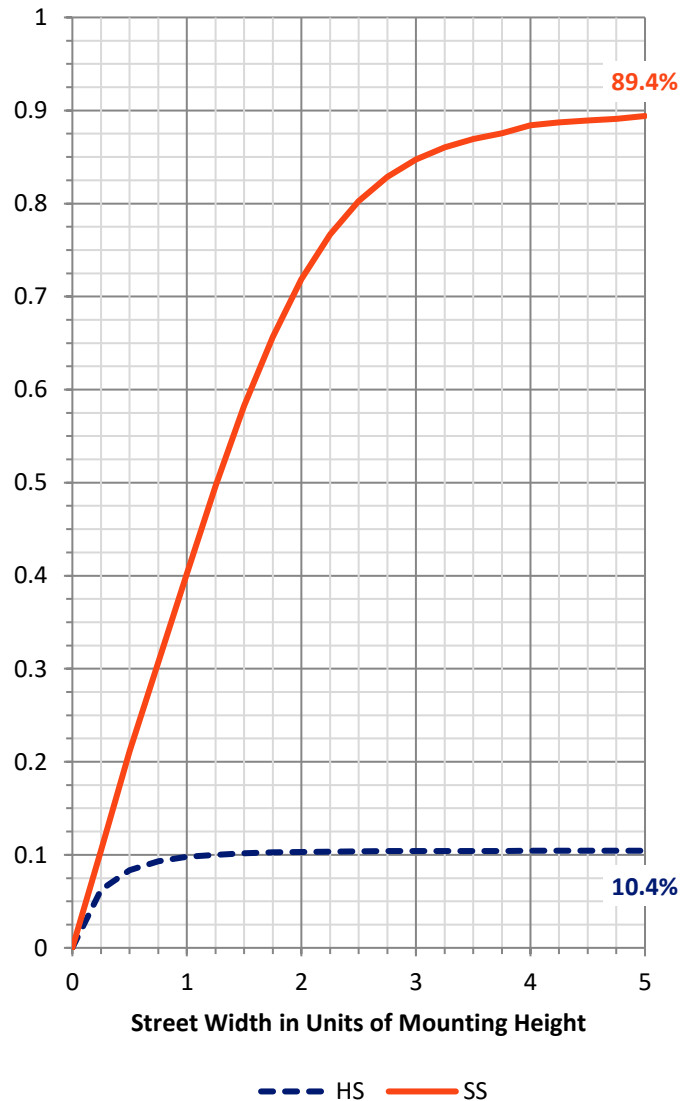
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4748.3	0.0	4748.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	40442.9	0.0	40442.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	45191.2	0.0	45191.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.5	1.0
10°-20°	1363.3	3.0
20°-30°	2238.7	5.0
30°-40°	3175.0	7.0
40°-50°	5248.0	11.6
50°-60°	9427.4	20.9
60°-70°	13090.5	29.0
70°-80°	9495.4	21.0
80°-90°	686.5	1.5
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°	45191.2	100.0
0°-180°	45191.2	100.0

Coefficient of Utilization



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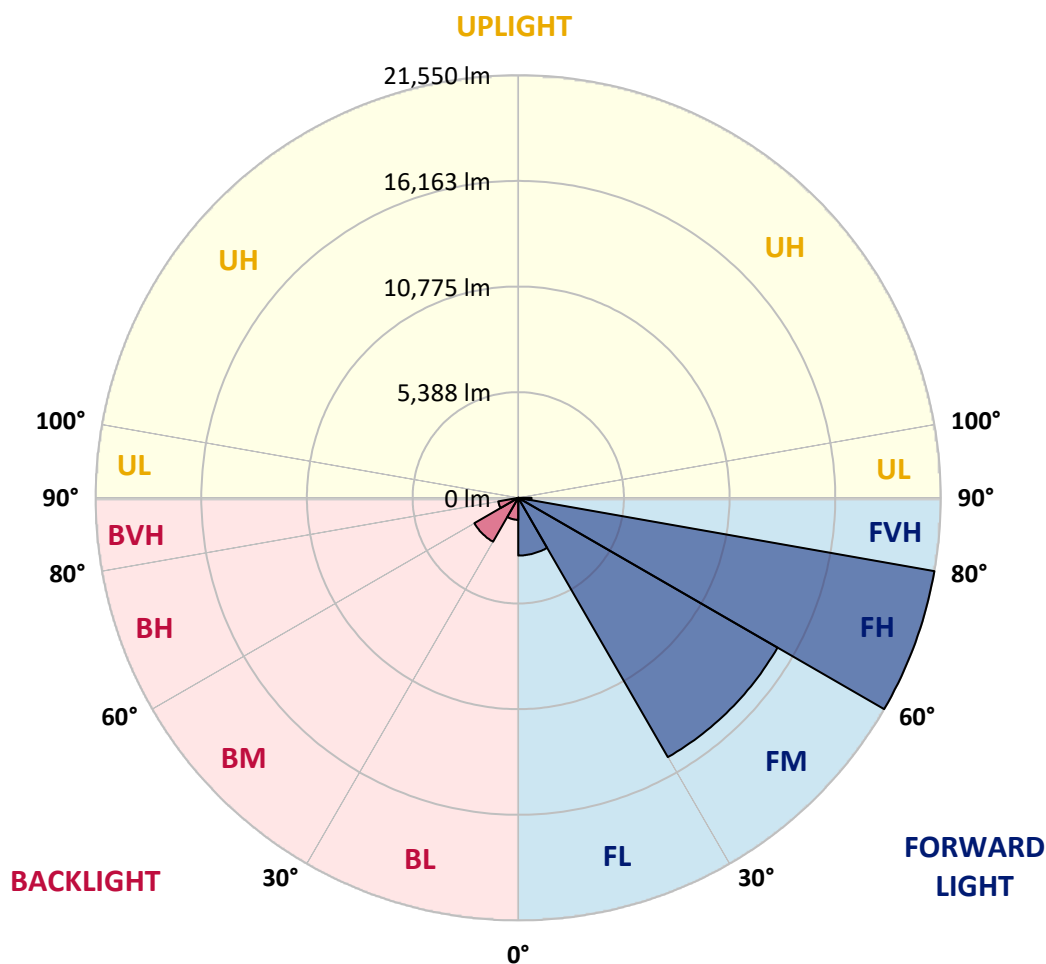
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2943.8	6.5			
FM	(30°-60°)	15268.0	33.8			
FH	(60°-80°)	21550.4	47.7			G5
FVH	(80°-90°)	680.7	1.5			G4/750
BL	(0°-30°)	1124.7	2.5	B3/2500		
BM	(30°-60°)	2582.4	5.7	B3/5000		
BH	(60°-80°)	1035.5	2.3	B3/2500		G3/2500
BVH	(80°-90°)	5.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8
2.5°	5407.3	5416.6	5410.4	5373.4	5311.7	5277.7	5259.3	5197.6	5157.5	5086.6	5012.5
5°	5903.9	5941.0	5919.4	5845.4	5728.1	5644.9	5620.2	5493.7	5379.5	5246.9	5092.7
7.5°	6431.4	6449.9	6409.8	6314.2	6156.9	6015.0	5993.4	5817.6	5635.6	5432.0	5222.3
10°	6887.9	6909.5	6847.8	6709.0	6530.1	6354.3	6323.4	6129.1	5913.2	5663.3	5395.0
12.5°	7270.4	7292.1	7211.8	7045.2	6847.8	6665.9	6635.0	6431.4	6193.9	5916.3	5583.2
15°	7560.4	7600.5	7492.5	7313.6	7100.8	6918.7	6903.4	6702.9	6471.5	6163.0	5808.3
17.5°	7730.0	7770.1	7668.3	7452.4	7270.4	7116.2	7097.7	6931.2	6715.2	6419.1	6027.3
20°	7757.8	7794.8	7686.9	7498.7	7347.5	7224.2	7214.9	7094.6	6937.3	6653.5	6264.8
22.5°	7674.5	7720.8	7622.1	7470.9	7366.1	7301.3	7288.9	7221.0	7131.6	6891.0	6486.9
25°	7588.2	7625.2	7551.1	7418.4	7363.0	7356.8	7366.1	7353.7	7335.2	7131.6	6746.0
27.5°	7581.9	7622.1	7538.8	7412.3	7381.4	7446.2	7455.5	7514.1	7529.5	7350.6	6995.9
30°	7634.4	7662.2	7581.9	7449.3	7433.9	7581.9	7585.0	7690.0	7714.6	7535.7	7242.6
32.5°	7748.5	7779.3	7699.2	7504.8	7483.2	7690.0	7699.2	7838.0	7878.0	7733.1	7501.8
35°	8016.9	8053.9	7961.4	7659.1	7581.9	7791.7	7819.5	7983.0	8063.2	7942.8	7770.1
37.5°	8686.3	8578.3	8451.8	7970.6	7807.1	7952.2	7998.4	8189.6	8331.5	8192.7	8090.9
40°	10348.8	10009.5	9614.7	8501.1	8201.9	8294.5	8331.5	8522.8	8717.1	8581.4	8532.0
42.5°	12844.3	12443.3	11807.9	9722.6	8797.3	8843.6	8871.4	9037.9	9312.4	9204.5	9216.8
45°	15068.3	14923.3	14275.6	11807.9	9910.8	9682.6	9716.5	9802.9	10206.9	10166.9	10247.0
47.5°	16777.2	16693.9	16194.2	14201.6	11792.4	10709.7	10805.3	10845.5	11428.4	11570.4	11786.3
50°	18091.2	18060.4	17613.1	16329.9	14250.9	12224.3	12258.2	12171.9	13044.8	13396.4	13806.7
52.5°	19331.2	19436.2	19106.1	18307.1	16875.9	14207.7	14201.6	13794.3	14972.7	15503.2	16203.4
55°	20450.9	20488.0	20521.9	20324.5	19516.3	16465.6	16407.1	15740.7	17209.0	17758.1	18516.9
57.5°	21502.8	21518.2	21820.5	22224.6	22264.7	18890.1	18782.2	17983.2	19652.0	20043.8	20509.5
60°	22209.2	22280.1	22918.6	24041.5	24531.8	21391.7	21333.1	20518.8	22138.3	22320.2	22233.9
62.5°	21191.3	21623.1	23233.3	25460.4	26672.6	24164.8	24137.0	23372.0	24754.0	24605.9	23865.6
65°	17153.5	17884.5	20716.2	26419.7	28773.2	27261.7	27301.9	26487.5	27440.7	26959.4	25191.9
67.5°	11999.2	12770.3	16120.2	26496.8	31120.6	30898.5	31129.9	29852.8	30294.0	29214.3	25506.6
70°	8297.6	8695.5	10876.3	24837.3	32949.8	35907.9	35901.8	33986.2	33131.8	30241.5	23902.6
72.5°	5580.1	5786.7	7063.8	19704.5	31604.8	38884.6	38705.6	37144.9	34088.0	28282.7	19528.6
75°	2353.6	2504.7	3269.6	11073.7	25003.8	35574.8	35090.5	32826.3	30287.7	22270.9	12184.2
77.5°	746.5	811.3	1289.3	3963.7	13772.8	26740.5	26228.4	20500.3	20299.8	11172.4	4454.1
80°	354.8	413.4	724.9	1591.6	5419.7	14543.9	14473.0	9300.1	8732.5	3016.8	894.5
82.5°	154.3	182.0	401.0	851.4	2424.5	5188.3	5293.2	3164.8	2618.9	1144.4	274.5
85°	49.3	64.8	185.1	391.8	1024.1	1289.3	1274.0	752.7	1054.9	623.1	95.6
87.5°	0.0	0.0	61.7	89.5	104.9	74.0	83.3	64.8	293.0	172.7	33.9
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°	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8	4950.8
2.5°	4975.5	4926.2	4839.7	4759.6	4688.6	4617.6	4574.5	4512.8	4506.6	4506.6	4522.0
5°	5009.4	4929.2	4775.0	4611.5	4423.3	4244.4	4065.6	3892.7	3837.3	3797.1	3815.7
7.5°	5108.1	4981.6	4738.0	4426.5	4068.6	3676.9	3402.3	3106.2	2992.1	2930.4	2939.6
10°	5250.0	5077.2	4707.1	4161.1	3581.2	3047.6	2655.9	2335.1	2211.6	2159.3	2159.3
12.5°	5407.3	5194.5	4651.6	3831.0	3047.6	2409.1	2026.6	1878.5	1860.1	1860.1	1860.1
15°	5595.5	5336.4	4555.9	3442.5	2489.3	1906.3	1770.6	1776.7	1795.3	1807.6	1807.6
17.5°	5789.8	5487.5	4404.8	3007.5	1995.8	1715.0	1718.1	1727.3	1742.8	1755.1	1755.1
20°	5999.5	5638.6	4204.3	2544.8	1712.0	1659.5	1668.8	1678.0	1690.3	1696.6	1699.7
22.5°	6224.7	5780.6	3966.9	2091.4	1616.3	1613.2	1616.3	1625.5	1641.0	1641.0	1647.2
25°	6465.3	5937.8	3695.3	1761.4	1567.0	1567.0	1573.2	1579.3	1591.6	1591.6	1594.7
27.5°	6712.1	6082.9	3408.5	1588.5	1523.8	1520.7	1520.7	1529.9	1536.2	1539.2	1542.3
30°	6983.5	6252.5	3121.6	1551.5	1489.8	1474.5	1465.2	1471.4	1477.5	1480.6	1486.8
32.5°	7261.2	6416.0	2865.6	1567.0	1455.9	1428.1	1397.3	1391.1	1391.1	1403.5	1412.8
35°	7569.6	6594.8	2668.2	1619.4	1437.5	1360.3	1311.0	1283.2	1286.3	1304.8	1314.0
37.5°	7939.8	6810.8	2523.2	1665.7	1425.1	1283.2	1203.0	1169.1	1147.5	1169.1	1162.9
40°	8424.1	7128.6	2418.3	1702.7	1409.7	1193.7	1085.8	1030.2	990.1	1002.4	996.3
42.5°	9136.6	7628.3	2378.2	1705.8	1375.8	1088.9	965.4	891.4	832.8	835.9	823.6
45°	10136.0	8417.9	2584.9	1665.7	1301.8	974.8	839.0	740.3	703.3	694.0	681.7
47.5°	11505.6	9568.5	3063.0	1582.4	1193.7	863.7	715.7	632.3	604.5	589.2	579.9
50°	13340.9	11046.0	3593.5	1489.8	1085.8	758.8	613.9	561.4	542.8	527.5	524.4
52.5°	15469.3	12545.1	4028.5	1397.3	977.8	666.2	549.1	518.2	502.8	490.5	487.4
55°	17421.8	13578.5	4003.9	1298.6	873.0	592.2	502.8	484.3	465.8	453.5	447.3
57.5°	18637.2	13723.4	3300.5	1190.6	752.7	533.6	459.6	447.3	425.7	410.2	407.1
60°	19195.5	12896.8	2313.4	1048.8	632.3	478.2	413.4	407.1	379.5	357.8	351.7
62.5°	19297.3	11360.6	1542.3	873.0	527.5	425.7	367.1	357.8	320.8	283.8	265.3
65°	18884.0	9164.3	1067.2	681.7	450.4	370.1	314.7	296.1	256.0	219.0	206.6
67.5°	17576.1	6434.5	743.4	490.5	382.5	293.0	249.9	243.6	212.8	182.0	172.7
70°	15179.3	3667.6	496.6	367.1	302.3	200.5	197.4	203.6	172.7	148.0	135.7
72.5°	11638.3	1678.0	308.4	268.3	206.6	135.7	157.3	160.4	132.6	111.0	98.7
75°	6850.9	718.7	194.3	172.7	104.9	89.5	114.1	117.3	89.5	70.9	61.7
77.5°	2332.0	271.4	123.4	101.8	52.5	49.3	74.0	74.0	49.3	27.8	21.6
80°	530.5	101.8	61.7	40.1	24.7	21.6	24.7	21.6	12.3	3.1	0.0
82.5°	151.2	40.1	24.7	15.4	9.2	9.2	3.1	0.0	0.0	0.0	0.0
85°	43.2	18.6	6.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	3.1	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)