

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: P971614

Luminaire Tested: **NAV-SB6D-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44419.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

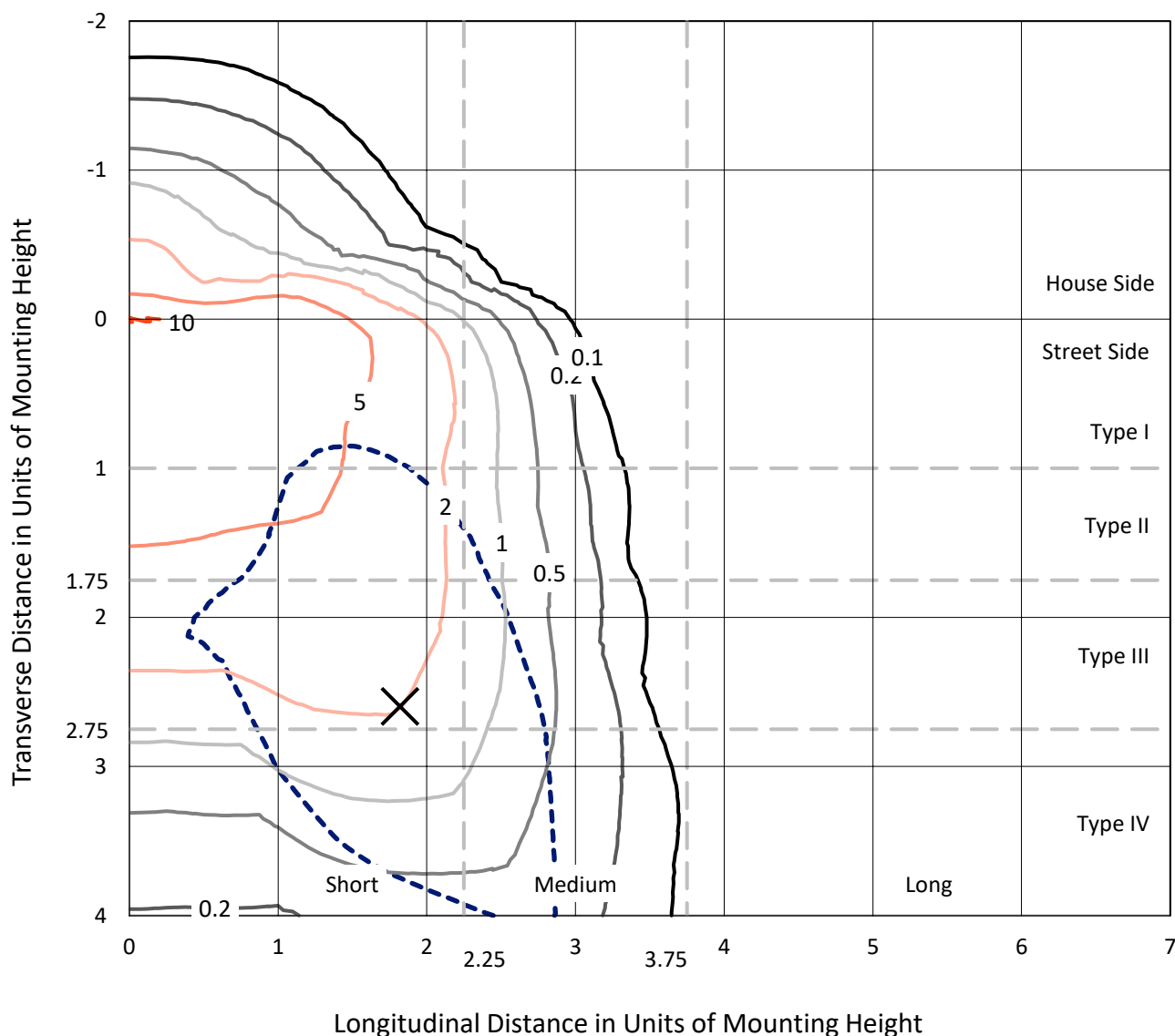
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

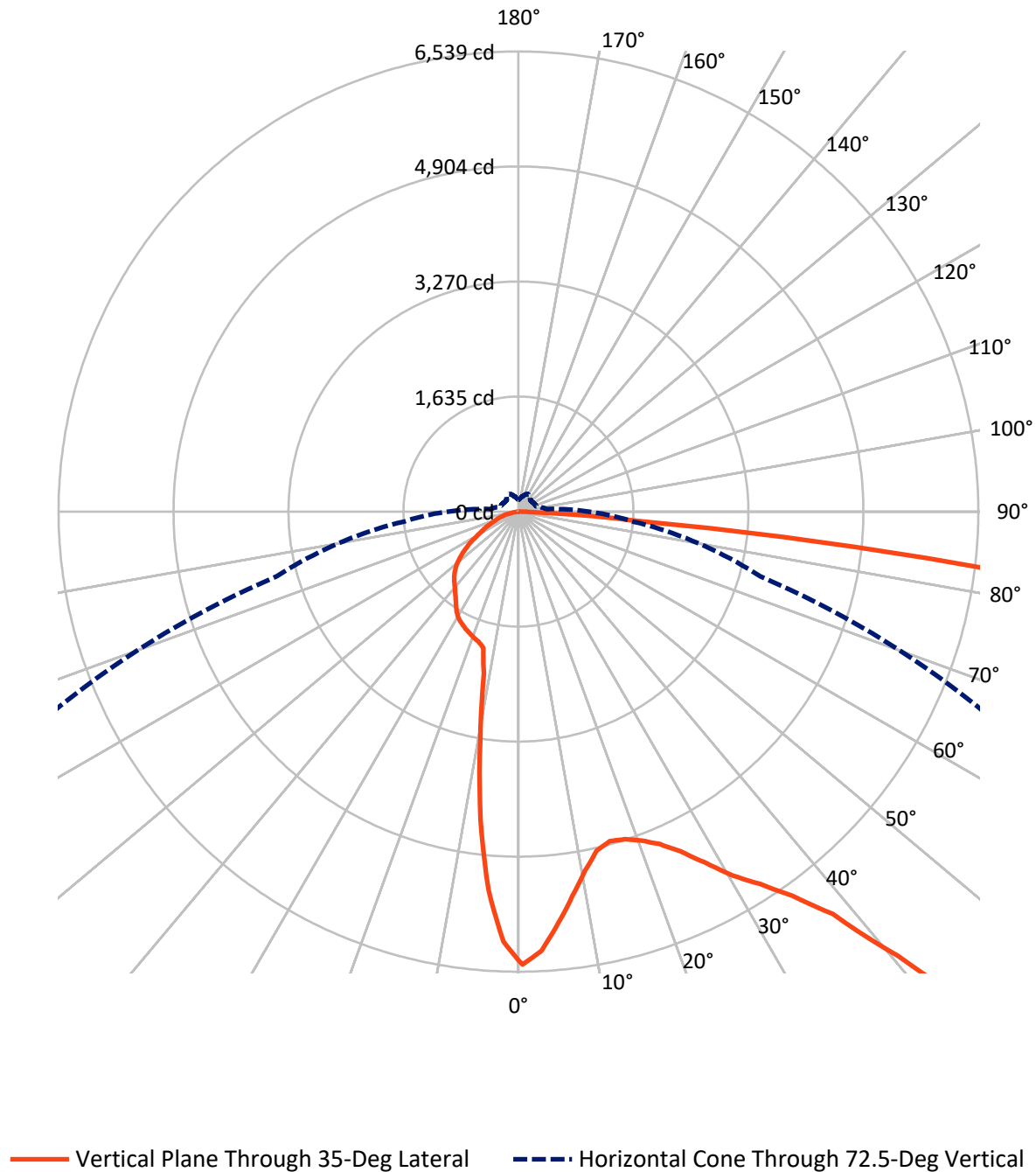
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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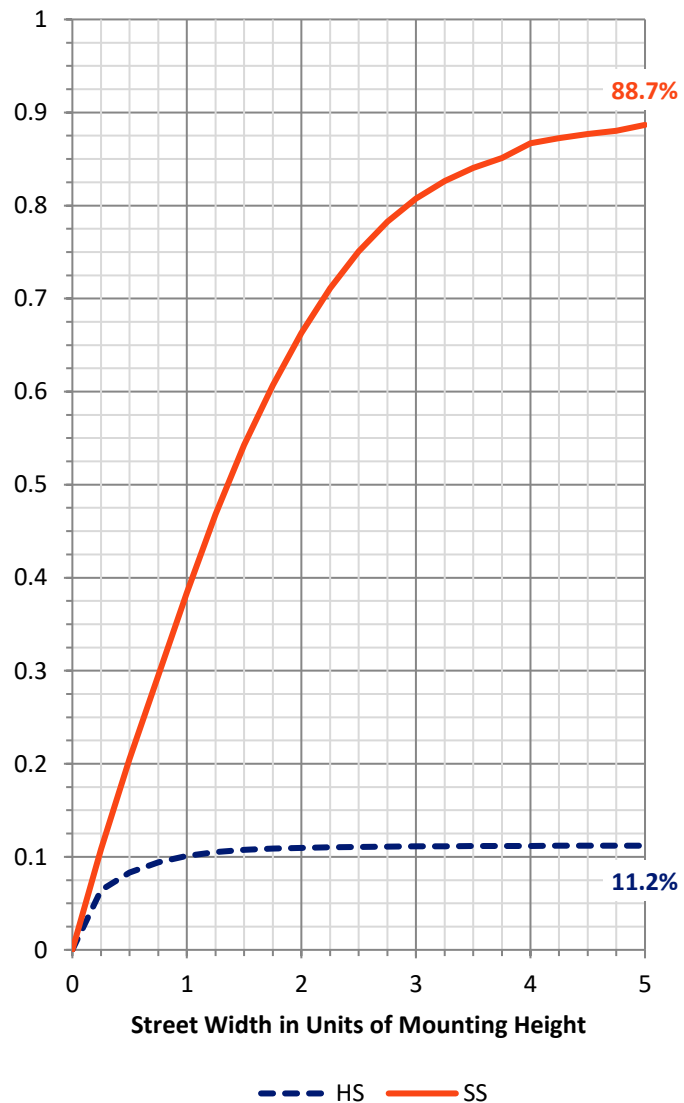
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4999.2	0.0	4999.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	39420.2	0.0	39420.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	44419.4	0.0	44419.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.0	1.2
10°-20°	1237.6	2.8
20°-30°	2010.4	4.5
30°-40°	3354.4	7.6
40°-50°	6346.5	14.3
50°-60°	10084.6	22.7
60°-70°	12475.4	28.1
70°-80°	7754.8	17.5
80°-90°	626.7	1.4
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°	44419.4	100.0
0°-180°	44419.4	100.0

Coefficient of Utilization



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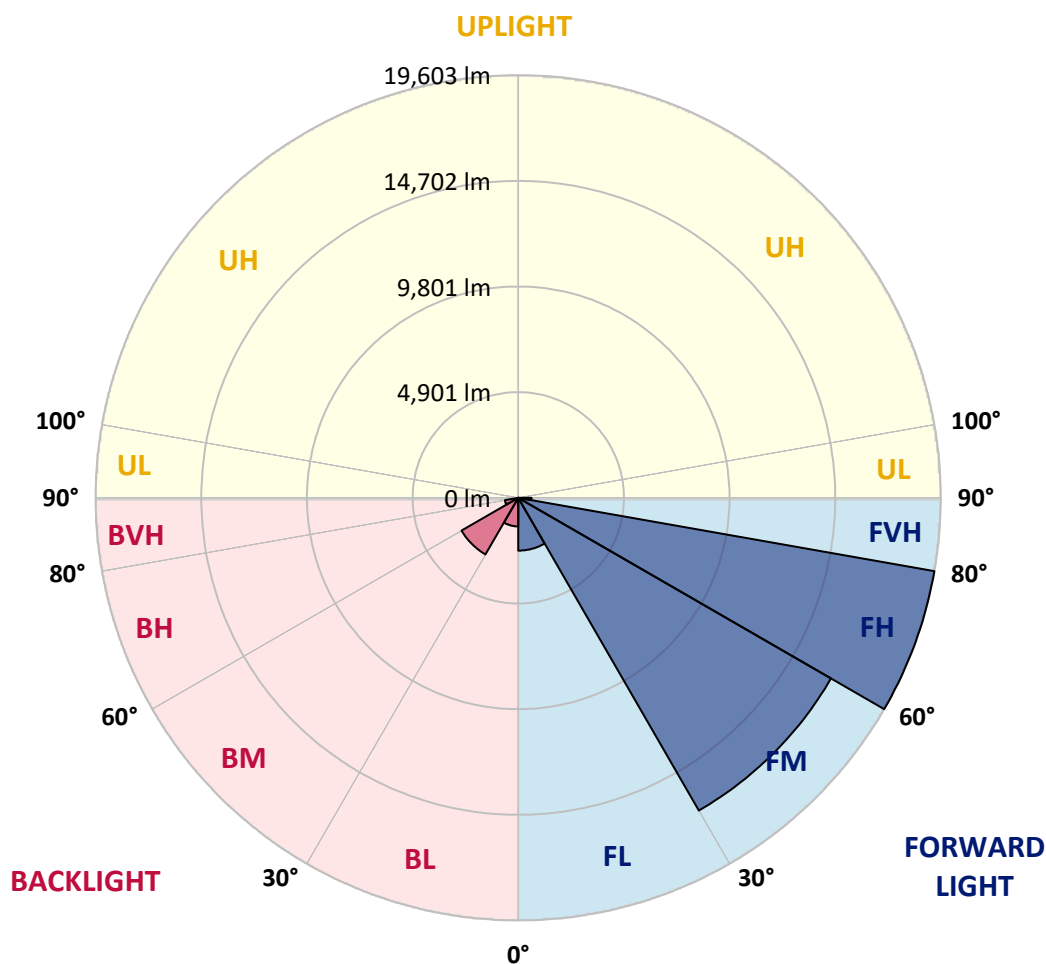
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2448.6	5.5			
FM	(30°-60°)	16750.6	37.7			
FH	(60°-80°)	19602.8	44.1			G5
FVH	(80°-90°)	618.2	1.4			G4/750
BL	(0°-30°)	1328.4	3.0	B3/2500		
BM	(30°-60°)	3035.0	6.8	B3/5000		
BH	(60°-80°)	627.3	1.4	B2/1000		G2/1000
BVH	(80°-90°)	8.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8
2.5°	6151.4	6203.5	6213.2	6229.5	6229.5	6249.1	6281.6	6327.2	6402.0	6441.1	6467.1
5°	5669.8	5708.8	5757.6	5796.7	5871.5	5881.3	6008.2	6132.0	6304.5	6434.6	6525.8
7.5°	5184.8	5230.4	5295.5	5389.9	5487.4	5516.8	5708.8	5917.1	6190.5	6434.6	6587.6
10°	4843.0	4846.3	4904.9	4999.2	5155.5	5191.3	5425.6	5721.9	6063.6	6395.6	6646.2
12.5°	4651.0	4673.8	4699.8	4771.5	4921.1	4944.0	5194.6	5542.8	5936.6	6372.7	6714.5
15°	4651.0	4667.2	4683.5	4719.4	4839.7	4859.3	5080.6	5428.9	5871.5	6382.6	6825.2
17.5°	4699.8	4725.9	4712.8	4755.2	4882.1	4895.1	5090.4	5396.3	5868.3	6444.4	6994.4
20°	4817.0	4836.6	4810.5	4836.6	4963.5	4989.5	5191.3	5458.2	5923.6	6551.8	7206.0
22.5°	5002.5	5012.2	4950.4	4970.0	5100.2	5132.7	5367.0	5633.9	6057.0	6724.3	7489.2
25°	5236.8	5256.4	5162.0	5184.8	5308.5	5347.5	5617.7	5897.5	6268.6	6961.9	7850.4
27.5°	5507.0	5516.8	5435.4	5432.2	5591.6	5646.9	5920.4	6223.1	6551.8	7261.3	8306.1
30°	5816.2	5845.5	5767.4	5754.3	5956.2	6001.7	6271.9	6623.3	6968.4	7710.5	8953.8
32.5°	6060.3	6083.1	6037.6	6070.0	6275.2	6310.9	6698.3	7189.7	7622.6	8348.4	9835.8
35°	6411.8	6424.8	6320.7	6379.3	6613.6	6704.7	7280.9	7983.8	8446.0	9149.0	10988.0
37.5°	7684.4	7684.4	7241.8	6952.1	7176.6	7258.0	8078.2	8983.1	9461.5	10223.1	12439.6
40°	9445.3	9416.0	8768.3	8175.9	8146.6	8306.1	9214.1	10242.6	10773.2	11512.0	14073.5
42.5°	11323.2	11277.7	10395.7	9809.8	9712.1	9767.4	10525.8	11795.2	12335.5	13084.0	15831.0
45°	12989.6	12976.6	12169.4	11381.8	11206.0	11381.8	12163.0	13611.3	13998.6	14786.2	17585.3
47.5°	14385.9	14385.9	13796.8	13282.6	13191.4	13295.6	14379.4	15625.9	15590.1	16599.2	19294.1
50°	15993.8	15980.8	15420.9	15199.6	15294.0	15440.5	16931.2	17748.1	17237.0	18379.5	20820.5
52.5°	17119.9	17198.0	17006.0	16970.2	17451.9	17705.7	19521.8	19824.5	18711.5	20068.7	21963.0
55°	18011.7	18102.8	18324.1	18574.7	19502.4	19834.4	22031.2	21793.7	19945.0	21533.3	22620.4
57.5°	19274.5	19144.3	19486.1	19980.8	21481.2	21881.6	24462.5	23652.2	20937.7	22721.3	22692.0
60°	20807.5	20827.1	20885.6	21510.5	23456.8	23971.1	26858.1	25409.6	21575.6	23450.4	21897.8
62.5°	22649.7	22678.9	22799.4	23759.5	26109.4	26594.4	29409.7	26848.2	21868.6	23245.3	19847.4
65°	22522.7	22646.5	23990.6	27274.6	30142.1	30620.5	32387.8	27857.2	21425.9	21370.5	16159.7
67.5°	20517.8	20719.7	22968.6	31473.2	36222.0	36755.7	35987.5	28055.8	19515.4	16618.6	10542.1
70°	17888.0	17959.6	20664.3	35248.7	43261.9	43802.1	39209.7	25871.8	14809.0	9269.5	4722.6
72.5°	13969.3	13985.6	17158.9	36124.3	47083.0	47112.3	36680.9	19206.1	7964.4	3560.6	1640.4
75°	9979.0	9881.4	11492.5	29295.8	41423.0	41754.9	27499.2	9009.1	3043.2	1682.7	816.9
77.5°	5350.8	5458.2	6502.9	17373.8	28615.6	29182.0	15004.4	2597.2	1549.3	1145.6	540.3
80°	1653.4	1744.6	2665.6	7954.6	16208.5	16550.3	5562.4	1155.4	1080.6	816.9	354.8
82.5°	520.8	540.3	1243.3	3342.6	6727.5	6883.8	1611.1	654.2	738.8	540.3	208.3
85°	149.8	152.9	553.3	1246.6	1663.2	1695.8	452.4	253.9	423.1	335.3	107.4
87.5°	16.3	52.1	208.3	208.3	146.5	143.2	48.8	55.4	120.4	42.3	19.6
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°	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8	6437.8
2.5°	6450.8	6454.1	6411.8	6340.2	6262.1	6197.0	6115.7	6050.6	6005.0	5991.9	6014.7
5°	6496.4	6473.7	6353.3	6135.1	5874.8	5650.2	5399.6	5201.1	5070.9	5015.5	5035.1
7.5°	6564.8	6499.7	6236.1	5806.4	5308.5	4865.8	4416.6	4068.4	3847.1	3736.4	3752.7
10°	6623.3	6493.2	6040.7	5331.2	4569.7	3899.2	3293.8	2873.9	2639.6	2528.9	2532.2
12.5°	6678.7	6489.9	5786.9	4768.2	3736.4	2916.2	2353.2	2144.9	2079.7	2057.0	2050.5
15°	6782.8	6499.7	5468.0	4123.8	2906.5	2203.4	1998.4	1995.2	2008.2	2001.6	1998.4
17.5°	6926.0	6509.5	5106.7	3440.2	2242.5	1943.1	1933.4	1962.6	1982.1	1972.4	1969.1
20°	7111.6	6548.5	4722.6	2763.3	1926.8	1878.0	1900.8	1926.8	1943.1	1926.8	1923.5
22.5°	7372.0	6616.9	4302.7	2219.7	1825.9	1839.0	1858.4	1887.7	1904.0	1881.3	1878.0
25°	7690.9	6724.3	3889.4	1930.1	1777.0	1793.3	1822.7	1855.1	1874.7	1852.0	1848.7
27.5°	8104.3	6896.8	3508.6	1865.0	1728.3	1738.0	1780.3	1829.1	1855.1	1825.9	1825.9
30°	8703.2	7179.9	3179.9	1894.3	1698.9	1676.2	1734.8	1803.1	1832.4	1806.4	1803.1
32.5°	9497.3	7580.3	2978.0	1939.8	1685.9	1604.5	1659.9	1747.8	1796.6	1780.3	1780.3
35°	10538.8	8188.9	2899.9	1991.9	1676.2	1529.7	1568.8	1663.2	1747.8	1764.0	1764.0
37.5°	11801.6	9035.2	2922.8	2014.6	1646.9	1467.9	1487.4	1568.8	1679.5	1731.5	1744.6
40°	13237.0	10021.3	3053.0	1991.9	1614.4	1415.8	1419.1	1480.9	1578.5	1656.7	1682.7
42.5°	14717.9	11173.5	3293.8	1907.3	1585.1	1370.2	1360.5	1402.8	1467.9	1523.3	1546.0
45°	16127.2	12358.2	3531.4	1790.1	1549.3	1324.7	1301.9	1318.1	1331.2	1353.9	1366.9
47.5°	17357.5	13191.4	3463.1	1682.7	1500.4	1272.6	1233.6	1227.0	1188.0	1184.7	1181.5
50°	18207.0	13373.7	3075.7	1575.3	1428.8	1214.0	1152.2	1113.1	1044.8	1012.2	1015.5
52.5°	18477.2	12654.4	2512.7	1467.9	1311.7	1135.9	1048.1	986.2	901.6	872.3	869.0
55°	18119.1	11245.1	2008.2	1337.7	1148.9	1031.8	934.1	852.7	784.4	748.6	748.6
57.5°	17243.6	9451.7	1588.3	1184.7	976.4	914.6	816.9	735.5	677.0	641.1	634.7
60°	15792.0	7505.5	1256.3	1002.4	833.2	787.6	686.7	634.7	582.6	540.3	530.5
62.5°	13588.5	5357.3	986.2	794.2	696.5	644.4	585.9	546.8	484.9	426.4	416.6
65°	10603.9	3277.5	761.6	582.6	559.9	533.8	497.9	462.2	387.3	328.7	319.0
67.5°	6688.4	1552.5	543.6	439.4	442.6	429.6	413.4	384.1	328.7	276.6	270.2
70°	2945.5	751.8	358.0	335.3	328.7	328.7	341.7	332.0	279.9	231.0	221.3
72.5°	1002.4	403.5	266.9	253.9	237.6	234.3	286.4	276.6	224.6	179.0	169.2
75°	524.0	270.2	195.3	182.2	143.2	172.5	227.9	214.8	159.5	117.2	107.4
77.5°	341.7	192.0	133.5	117.2	81.4	113.9	169.2	149.8	94.4	58.6	52.1
80°	214.8	126.9	78.1	55.4	39.1	61.8	91.1	65.1	35.8	13.0	9.7
82.5°	113.9	65.1	29.3	19.6	16.3	19.6	22.8	16.3	6.6	0.0	0.0
85°	45.6	22.8	9.7	6.6	3.3	0.0	6.6	3.3	0.0	0.0	0.0
87.5°	16.3	3.3	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)