

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: P971583

Luminaire Tested: **NAV-SB6D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971583
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-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 43031.6 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

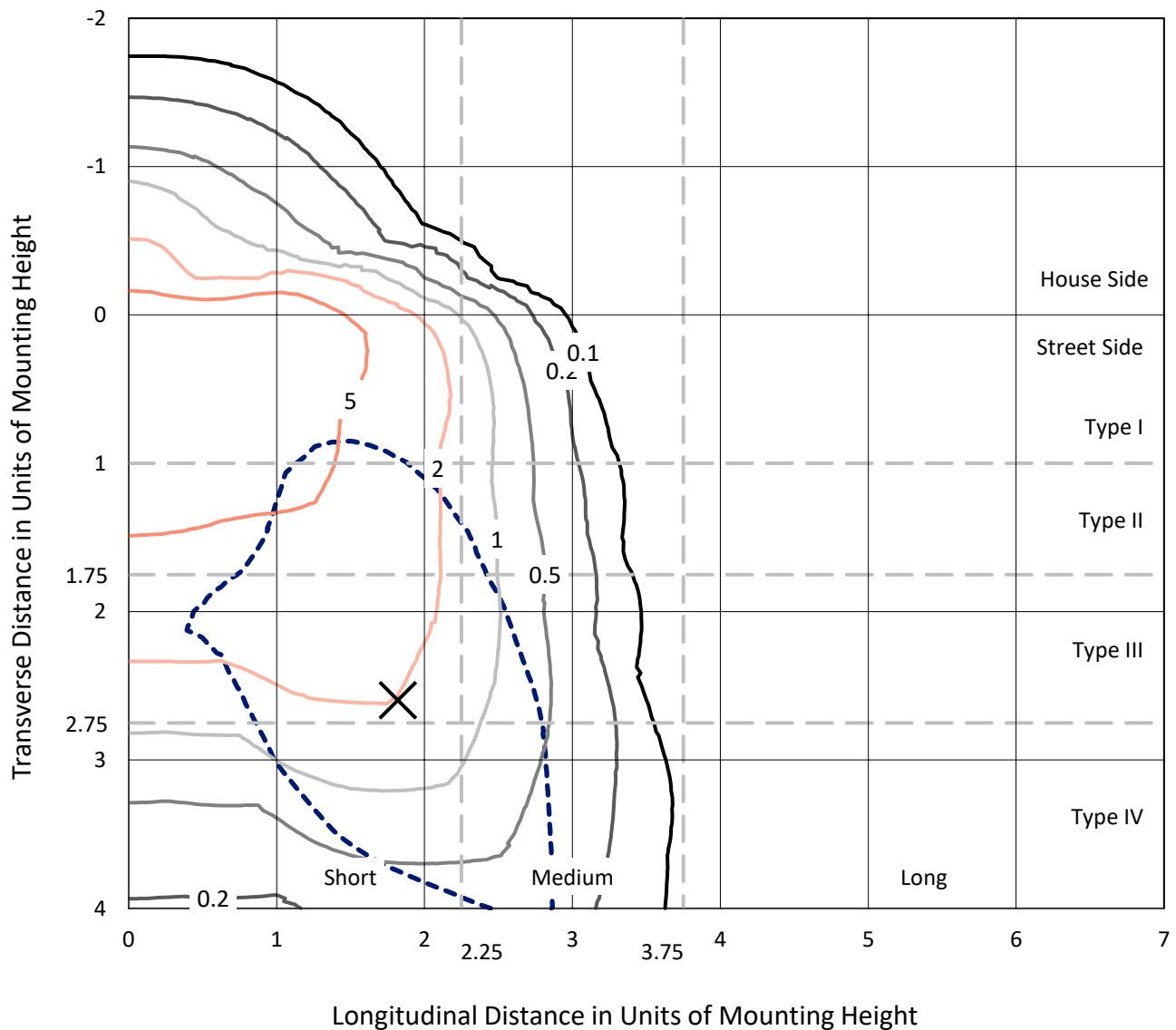
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

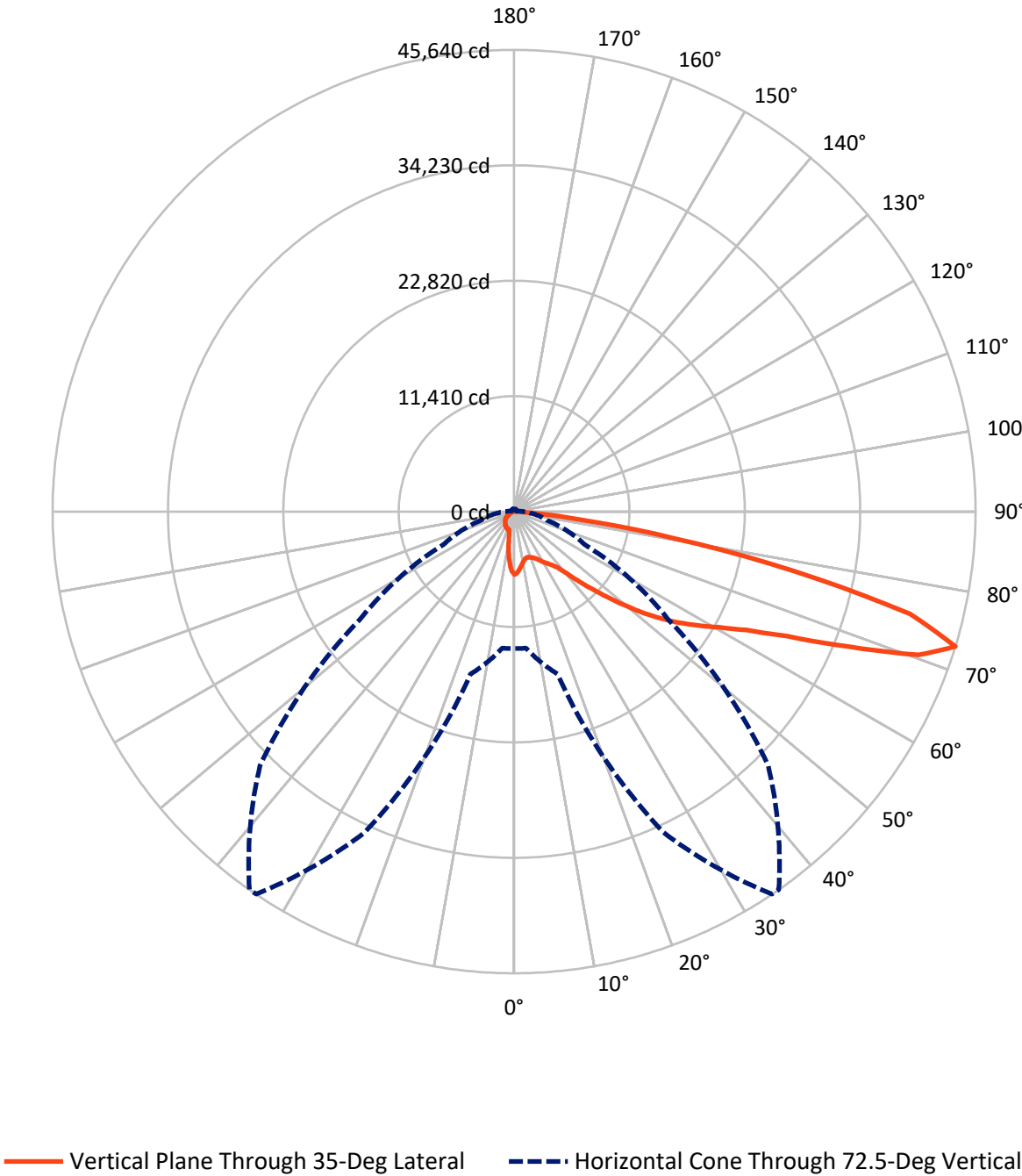
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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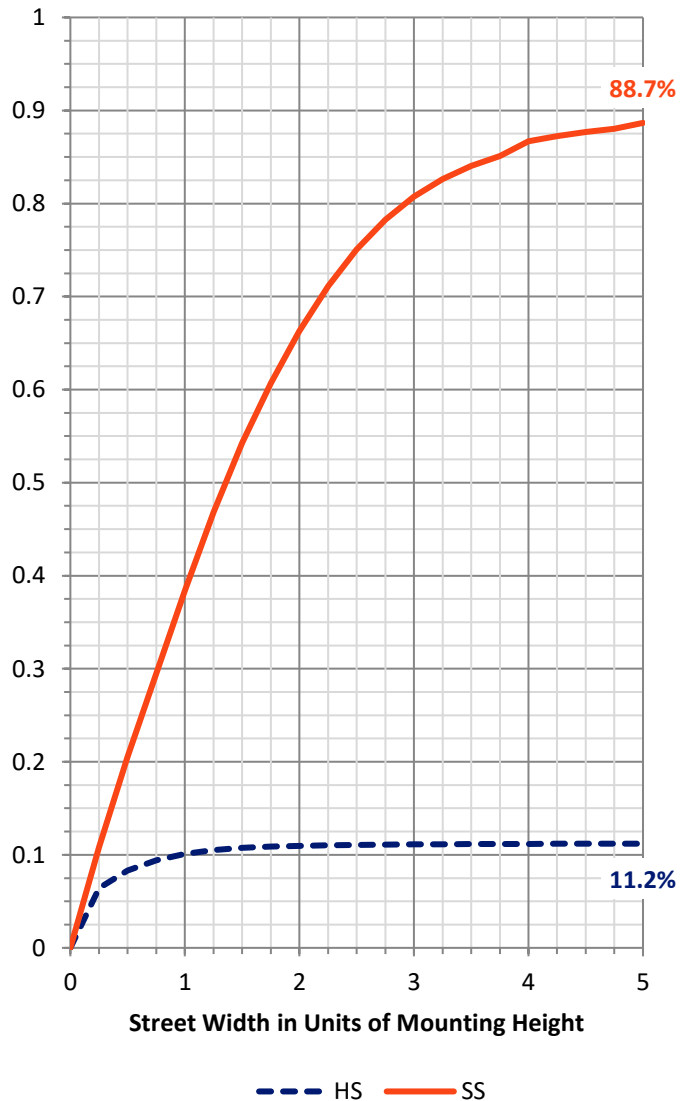
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4843.0	0.0	4843.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	38188.6	0.0	38188.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	43031.6	0.0	43031.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.5	1.2
10°-20°	1198.9	2.8
20°-30°	1947.6	4.5
30°-40°	3249.6	7.6
40°-50°	6148.3	14.3
50°-60°	9769.5	22.7
60°-70°	12085.6	28.1
70°-80°	7512.5	17.5
80°-90°	607.1	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°	43031.6	100.0
0°-180°	43031.6	100.0

Coefficient of Utilization



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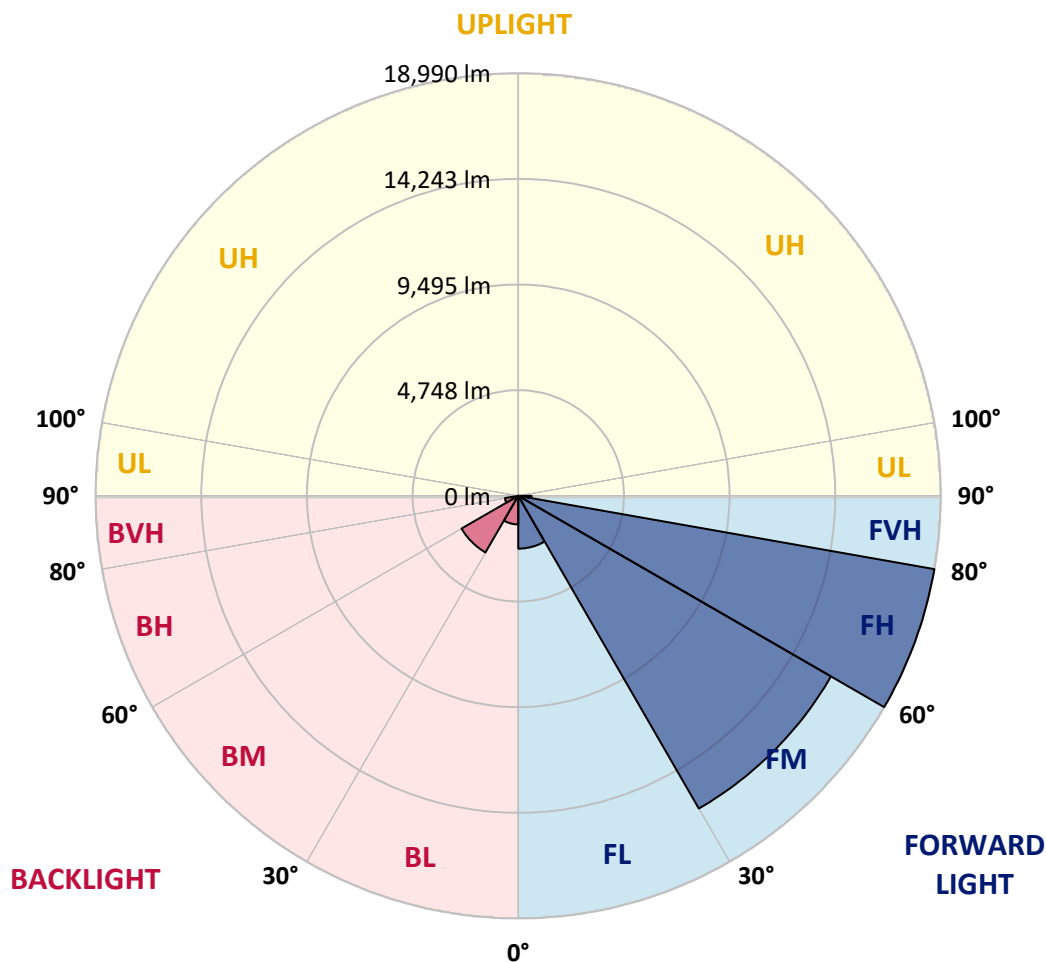
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2372.1	5.5			
FM	(30°-60°)	16227.2	37.7			
FH	(60°-80°)	18990.4	44.1			G5
FVH	(80°-90°)	598.9	1.4			G4/750
BL	(0°-30°)	1286.9	3.0	B3/2500		
BM	(30°-60°)	2940.1	6.8	B3/5000		
BH	(60°-80°)	607.7	1.4	B2/1000		G2/1000
BVH	(80°-90°)	8.3	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°	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7
2.5°	5959.2	6009.7	6019.1	6034.9	6034.9	6053.9	6085.3	6129.5	6202.1	6239.9	6265.1
5°	5492.6	5530.4	5577.7	5615.6	5688.1	5697.6	5820.5	5940.3	6107.5	6233.5	6321.9
7.5°	5022.8	5067.0	5130.0	5221.5	5316.1	5344.5	5530.4	5732.2	5997.1	6233.5	6381.8
10°	4691.7	4694.9	4751.6	4843.0	4994.4	5029.1	5256.1	5543.0	5874.1	6195.7	6438.5
12.5°	4505.7	4527.7	4552.9	4622.3	4767.4	4789.5	5032.2	5369.7	5751.2	6173.7	6504.8
15°	4505.7	4521.5	4537.3	4571.9	4688.6	4707.5	4921.9	5259.3	5688.1	6183.1	6612.0
17.5°	4552.9	4578.3	4565.6	4606.6	4729.6	4742.2	4931.4	5227.7	5685.0	6243.1	6775.9
20°	4666.5	4685.4	4660.2	4685.4	4808.4	4833.6	5029.1	5287.7	5738.6	6347.1	6980.9
22.5°	4846.2	4855.7	4795.8	4814.7	4940.8	4972.4	5199.4	5457.9	5867.8	6514.2	7255.2
25°	5073.2	5092.2	5000.8	5022.8	5142.6	5180.5	5442.1	5713.3	6072.7	6744.4	7605.1
27.5°	5334.9	5344.5	5265.5	5262.5	5416.9	5470.5	5735.4	6028.6	6347.1	7034.5	8046.6
30°	5634.5	5662.8	5587.2	5574.6	5770.0	5814.2	6075.9	6416.4	6750.6	7469.6	8674.1
32.5°	5871.0	5893.0	5848.9	5880.4	6079.1	6113.7	6489.0	6965.1	7384.4	8087.6	9528.5
35°	6211.5	6224.1	6123.2	6179.9	6407.0	6495.2	7053.3	7734.4	8182.2	8863.2	10644.6
37.5°	7444.4	7444.4	7015.5	6734.9	6952.5	7031.3	7825.9	8702.4	9165.9	9903.7	12050.9
40°	9150.2	9121.8	8494.3	7920.5	7892.1	8046.6	8926.2	9922.6	10436.6	11152.3	13633.7
42.5°	10969.4	10925.3	10070.8	9503.3	9408.7	9462.3	10196.9	11426.6	11950.1	12675.3	15336.4
45°	12583.8	12571.2	11789.2	11026.2	10855.9	11026.2	11782.9	13186.0	13561.3	14324.3	17035.9
47.5°	13936.4	13936.4	13365.7	12867.5	12779.3	12880.2	13930.2	15137.7	15103.1	16080.5	18691.2
50°	15494.0	15481.4	14939.1	14724.7	14816.2	14958.0	16402.2	17193.6	16698.5	17805.2	20169.9
52.5°	16585.0	16660.7	16474.6	16440.0	16906.6	17152.6	18912.0	19205.2	18126.8	19441.7	21276.7
55°	17448.9	17537.2	17751.7	17994.4	18893.0	19214.6	21343.0	21112.7	19321.9	20860.5	21913.7
57.5°	18672.3	18546.1	18877.2	19356.5	20810.1	21197.9	23698.2	22913.2	20283.5	22011.4	21983.0
60°	20157.3	20176.3	20233.1	20838.5	22723.9	23222.2	26018.9	24615.8	20901.5	22717.7	21213.7
62.5°	21942.0	21970.4	22087.0	23017.2	25293.7	25763.5	28490.9	26009.5	21185.3	22519.0	19227.3
65°	21819.1	21938.9	23241.1	26422.4	29200.3	29663.8	31375.9	26986.9	20756.5	20702.8	15654.8
67.5°	19876.8	20072.3	22251.0	30489.9	35090.2	35607.3	34863.1	27179.2	18905.6	16099.5	10212.7
70°	17329.2	17398.5	20018.7	34147.5	41910.2	42433.7	37984.7	25063.5	14346.3	8979.8	4575.1
72.5°	13532.9	13548.7	16622.8	34995.5	45611.9	45640.3	35534.8	18606.1	7715.5	3449.4	1589.2
75°	9667.2	9572.7	11133.3	28380.5	40128.8	40450.4	26640.1	8727.6	2948.1	1630.2	791.4
77.5°	5183.6	5287.7	6299.8	16830.9	27721.5	28270.1	14535.5	2516.2	1500.8	1109.9	523.4
80°	1601.8	1690.0	2582.4	7706.1	15702.2	16033.3	5388.5	1119.3	1046.8	791.4	343.7
82.5°	504.5	523.4	1204.5	3238.2	6517.4	6668.6	1560.8	633.8	715.8	523.4	201.8
85°	145.0	148.2	536.0	1207.7	1611.2	1642.8	438.3	245.9	409.9	324.7	104.0
87.5°	15.8	50.4	201.8	201.8	141.9	138.8	47.3	53.6	116.6	41.0	19.0
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°	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7	6236.7
2.5°	6249.3	6252.5	6211.5	6142.1	6066.5	6003.4	5924.6	5861.5	5817.4	5804.8	5826.8
5°	6293.5	6271.4	6154.7	5943.5	5691.2	5473.7	5230.9	5038.6	4912.4	4858.8	4877.8
7.5°	6359.7	6296.6	6041.2	5625.0	5142.6	4713.8	4278.7	3941.3	3726.9	3619.7	3635.5
10°	6416.4	6290.3	5852.0	5164.7	4426.9	3777.3	3190.9	2784.1	2557.1	2450.0	2453.0
12.5°	6470.0	6287.1	5606.1	4619.2	3619.7	2825.1	2279.6	2077.9	2014.8	1992.7	1986.4
15°	6571.0	6296.6	5297.1	3994.9	2815.7	2134.6	1935.9	1932.8	1945.4	1939.1	1935.9
17.5°	6709.6	6306.1	4947.2	3332.8	2172.5	1882.4	1872.9	1901.3	1920.2	1910.7	1907.6
20°	6889.4	6343.9	4575.1	2676.9	1866.6	1819.3	1841.4	1866.6	1882.4	1866.6	1863.4
22.5°	7141.7	6410.1	4168.4	2150.3	1768.8	1781.4	1800.4	1828.8	1844.5	1822.4	1819.3
25°	7450.6	6514.2	3767.9	1869.7	1721.6	1737.4	1765.7	1797.2	1816.2	1794.1	1790.9
27.5°	7851.1	6681.3	3399.0	1806.7	1674.2	1683.8	1724.7	1772.0	1797.2	1768.8	1768.8
30°	8431.2	6955.6	3080.5	1835.1	1645.8	1623.8	1680.6	1746.8	1775.2	1750.0	1746.8
32.5°	9200.6	7343.4	2885.1	1879.2	1633.2	1554.4	1608.0	1693.2	1740.4	1724.7	1724.7
35°	10209.5	7933.1	2809.3	1929.7	1623.8	1481.9	1519.8	1611.2	1693.2	1709.0	1709.0
37.5°	11433.0	8752.9	2831.5	1951.7	1595.4	1422.0	1440.9	1519.8	1627.0	1677.4	1690.0
40°	12823.4	9708.2	2957.5	1929.7	1563.9	1371.6	1374.7	1434.6	1529.2	1604.9	1630.2
42.5°	14258.1	10824.4	3190.9	1847.7	1535.6	1327.5	1317.9	1358.9	1422.0	1475.6	1497.7
45°	15623.4	11972.1	3421.0	1734.2	1500.8	1283.3	1261.3	1276.9	1289.6	1311.7	1324.3
47.5°	16815.1	12779.3	3354.8	1630.2	1453.6	1232.9	1195.0	1188.7	1150.9	1147.7	1144.5
50°	17638.1	12955.8	2979.6	1526.1	1384.2	1176.1	1116.2	1078.3	1012.1	980.6	983.8
52.5°	17899.8	12259.0	2434.2	1422.0	1270.7	1100.4	1015.3	955.4	873.4	845.0	841.8
55°	17553.0	10893.8	1945.4	1295.9	1113.0	999.5	905.0	826.0	759.8	725.2	725.2
57.5°	16704.8	9156.4	1538.7	1147.7	945.9	886.0	791.4	712.6	655.8	621.2	614.8
60°	15298.5	7270.9	1217.1	971.2	807.2	763.0	665.3	614.8	564.4	523.4	513.9
62.5°	13164.0	5189.9	955.4	769.4	674.8	624.3	567.5	529.7	469.8	413.1	403.5
65°	10272.7	3175.1	737.8	564.4	542.3	517.1	482.4	447.7	375.3	318.5	309.0
67.5°	6479.5	1504.0	526.5	425.7	428.9	416.3	400.5	372.1	318.5	268.0	261.7
70°	2853.5	728.4	346.9	324.7	318.5	318.5	331.1	321.6	271.1	223.9	214.4
72.5°	971.2	390.9	258.5	245.9	230.2	227.0	277.5	268.0	217.6	173.4	164.0
75°	507.7	261.7	189.2	176.6	138.8	167.1	220.7	208.1	154.5	113.5	104.0
77.5°	331.1	186.0	129.3	113.5	78.8	110.4	164.0	145.0	91.4	56.8	50.4
80°	208.1	123.0	75.6	53.6	37.8	59.9	88.3	63.0	34.6	12.6	9.4
82.5°	110.4	63.0	28.4	19.0	15.8	19.0	22.0	15.8	6.4	0.0	0.0
85°	44.2	22.0	9.4	6.4	3.2	0.0	6.4	3.2	0.0	0.0	0.0
87.5°	15.8	3.2	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)