

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: P971449

Luminaire Tested: **NAV-SB6D-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48864.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - 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



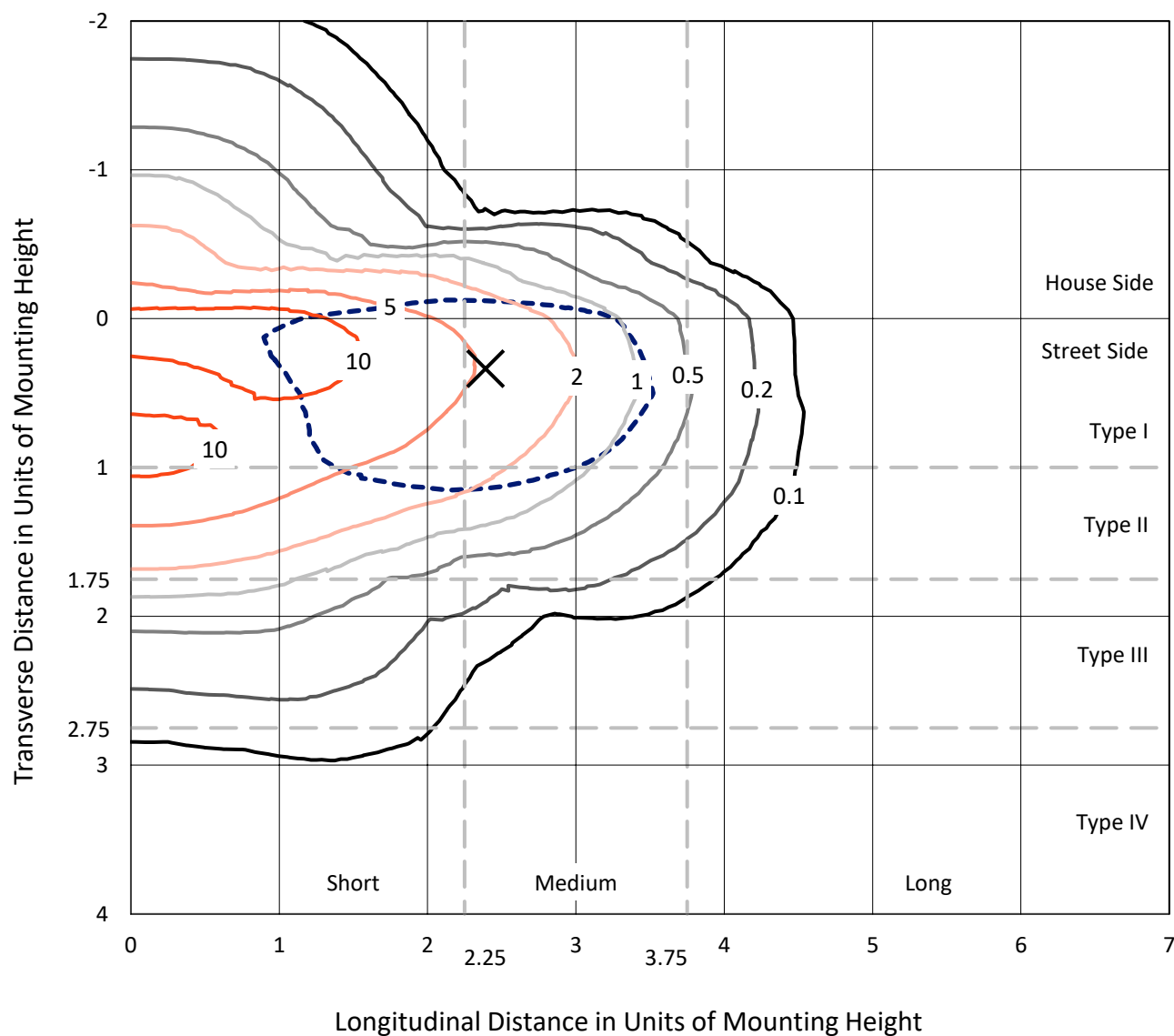
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

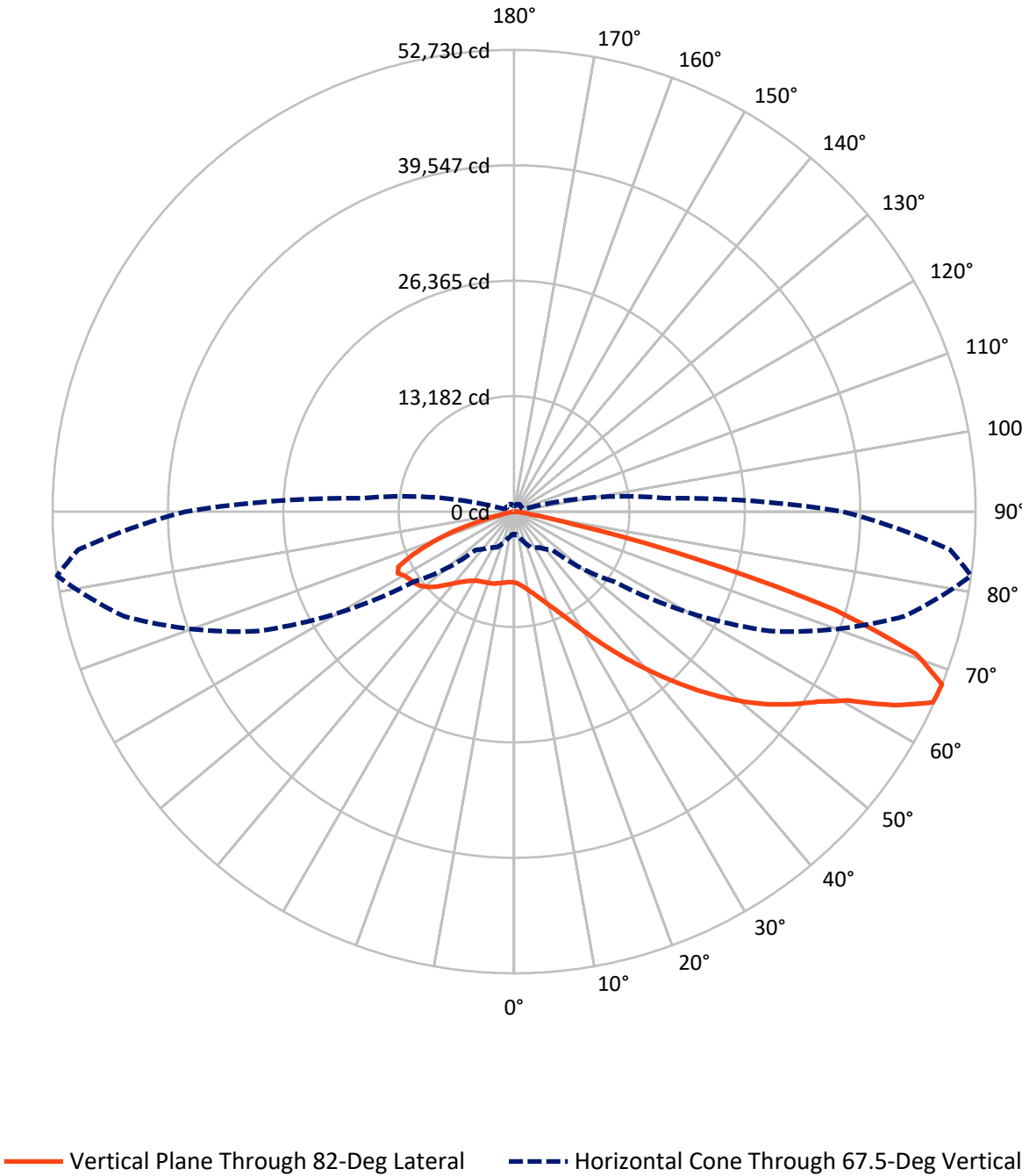
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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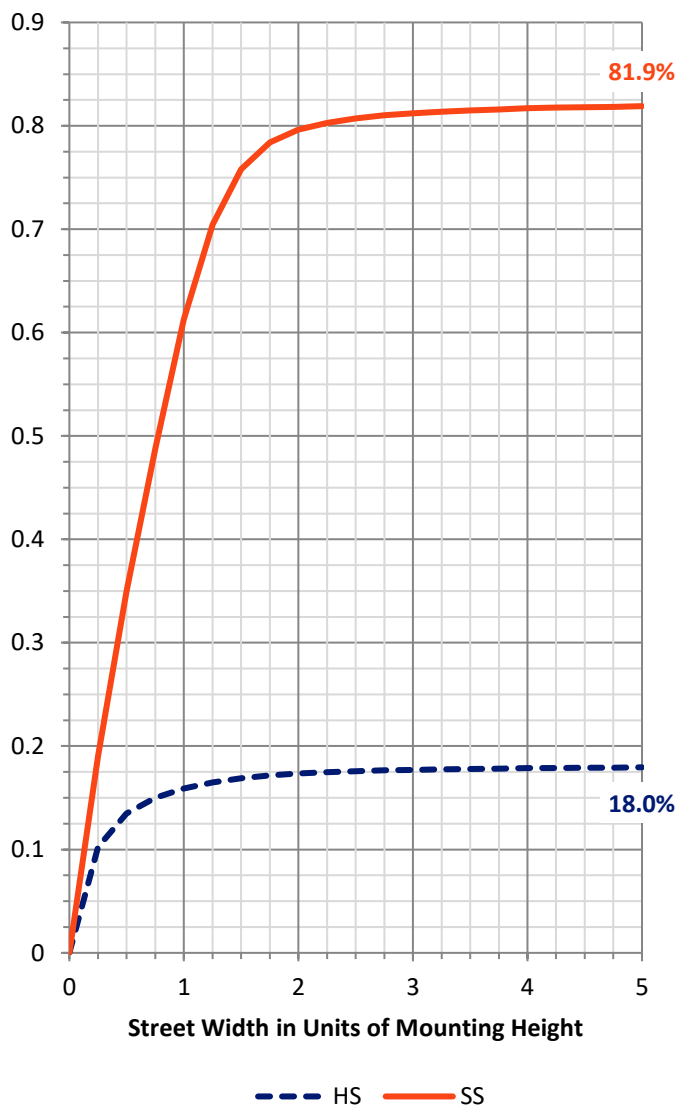
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8851.4	0.0	8851.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40013.4	0.0	40013.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	48864.8	0.0	48864.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.2	1.5
10°-20°	1874.2	3.8
20°-30°	3001.8	6.1
30°-40°	5308.2	10.9
40°-50°	9300.4	19.0
50°-60°	12404.2	25.4
60°-70°	11547.6	23.6
70°-80°	4432.0	9.1
80°-90°	275.3	0.6
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°	48864.8	100.0
0°-180°	48864.8	100.0

Coefficient of Utilization



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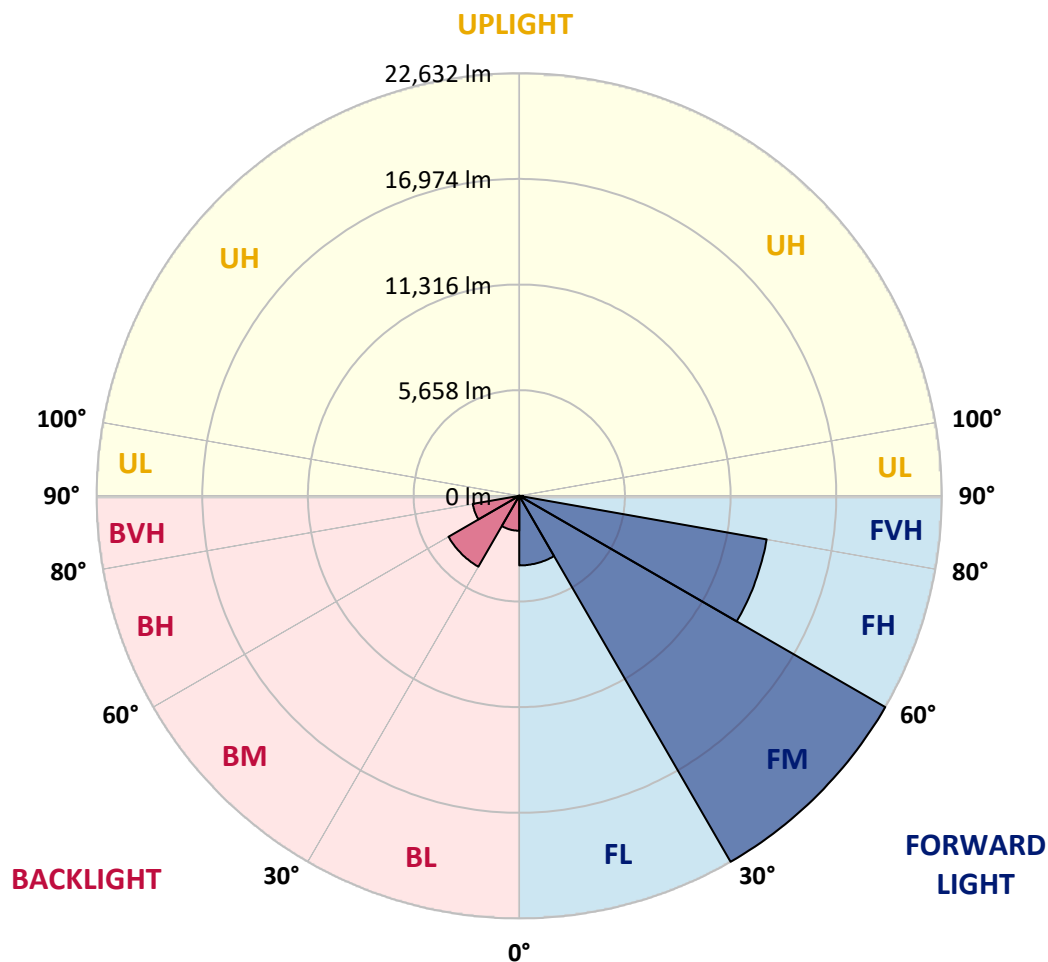
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3727.8	7.6			
FM	(30°-60°)	22632.2	46.3			
FH	(60°-80°)	13453.2	27.5			G5
FVH	(80°-90°)	200.1	0.4			G2/225
BL	(0°-30°)	1869.4	3.8	B3/2500		
BM	(30°-60°)	4380.5	9.0	B3/5000		
BH	(60°-80°)	2526.4	5.2	B4/5000		G4/5000
BVH	(80°-90°)	75.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2
2.5°	8556.1	8605.4	8577.2	8563.2	8538.6	8503.4	8475.2	8387.3	8295.7	8236.0	8214.9
5°	8728.5	8777.8	8774.2	8788.3	8805.9	8816.4	8809.5	8711.0	8580.8	8478.7	8418.9
7.5°	8580.8	8637.1	8682.8	8753.1	8876.3	9006.5	9069.8	9048.7	8914.9	8774.2	8700.4
10°	8162.1	8221.9	8331.0	8496.3	8756.7	9038.1	9273.8	9382.8	9298.5	9143.6	9041.6
12.5°	7395.2	7454.9	7669.6	8028.4	8464.7	8953.7	9404.0	9696.0	9717.1	9562.3	9442.7
15°	6533.1	6593.0	6821.7	7272.0	7936.9	8721.5	9474.4	10026.8	10213.2	10079.4	9935.2
17.5°	5998.4	6051.2	6223.6	6585.9	7279.0	8257.1	9449.8	10378.5	10804.2	10698.6	10526.2
20°	5836.6	5882.4	5963.2	6216.5	6793.5	7775.1	9287.9	10709.2	11441.0	11381.2	11187.7
22.5°	6009.0	6051.2	6075.8	6188.4	6550.8	7458.5	9083.9	11046.9	12179.8	12186.8	11951.1
25°	6406.6	6448.8	6420.6	6491.0	6649.3	7359.9	9006.5	11444.5	13108.6	13186.0	12918.6
27.5°	7060.9	7064.4	6997.6	6994.1	7018.7	7507.7	9087.3	11870.2	14280.1	14424.4	14093.6
30°	8373.2	8320.4	8063.6	7785.7	7659.0	7951.0	9312.5	12373.3	15662.8	15919.6	15504.5
32.5°	10396.1	10318.7	9847.3	9182.4	8514.0	8665.1	9717.1	12946.8	17168.5	17633.0	17126.3
35°	12591.4	12570.3	12077.8	11089.2	9921.2	9681.9	10375.0	13699.6	18811.5	19550.3	18948.8
37.5°	14632.0	14621.4	14340.0	13175.5	11754.1	11099.7	11430.5	14684.8	20570.6	21640.1	20929.5
40°	16496.6	16528.2	16246.8	15205.5	13773.5	12918.6	12865.8	15902.1	22526.6	23916.3	23072.0
42.5°	18107.9	18143.1	17858.1	17087.7	15768.3	14931.0	14628.4	17393.7	24437.0	26361.5	25362.3
45°	19202.0	19420.2	19377.9	18762.2	17815.8	16946.9	16746.3	19265.4	26614.7	28954.3	27782.7
47.5°	19511.6	19712.2	20028.8	20113.3	19536.3	18681.3	18920.6	21520.5	28817.2	31550.7	30217.3
50°	18748.2	18934.6	19592.6	20468.5	20869.6	20605.8	21034.9	23937.4	31072.3	34140.1	32606.2
52.5°	17242.4	17432.4	18262.7	19648.8	21284.7	22115.1	23156.4	26319.2	33257.0	36592.2	34868.3
55°	15064.7	15265.2	16331.2	17900.3	20493.2	22737.8	24926.1	28697.5	35258.9	38798.1	36908.8
57.5°	12102.4	12250.2	13358.4	15553.8	18501.9	22118.6	26231.3	31293.9	37144.6	40965.3	38931.8
60°	7887.7	8017.9	9305.5	11754.1	15201.9	20049.9	26491.6	34189.3	39649.5	43783.3	41658.4
62.5°	5245.5	5333.5	6096.9	7894.8	10705.7	16077.9	24968.3	36500.8	43322.4	48687.6	46334.0
65°	3599.1	3687.0	4450.4	5702.9	6916.7	10635.3	20588.1	36194.7	46650.6	52582.2	49799.3
67.5°	2568.2	2642.1	3289.4	4471.6	5006.3	6177.9	13956.5	32282.5	46172.1	52729.9	49985.8
70°	1840.0	1882.2	2417.0	3483.0	3979.0	3711.6	7761.0	24690.3	40427.0	48691.1	46179.1
72.5°	1287.6	1301.8	1678.1	2652.7	3205.1	2709.0	3694.1	16461.4	30576.2	38217.6	35800.6
75°	872.5	890.1	1129.3	1945.6	2571.7	2068.7	1956.1	8827.0	17949.6	21154.6	18962.8
77.5°	534.7	541.8	728.3	1329.8	1924.4	1576.1	1259.5	3739.8	6944.8	6818.2	5812.0
80°	302.6	302.6	464.4	826.8	1312.3	1016.7	883.0	1590.2	2198.8	1931.5	1702.8
82.5°	168.9	172.4	337.7	513.6	869.0	601.6	485.5	735.3	949.9	840.8	731.7
85°	70.3	77.4	207.6	242.7	415.1	299.0	197.0	309.5	351.8	313.1	228.7
87.5°	7.1	10.6	63.3	45.7	49.3	59.8	28.2	59.8	49.3	49.3	35.2
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°	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2	8095.2
2.5°	8148.0	8095.2	7961.6	7806.8	7602.7	7504.2	7370.5	7279.0	7201.6	7208.7	7138.3
5°	8306.3	8172.6	7873.6	7500.6	7036.3	6705.6	6353.8	6111.0	5914.0	5871.8	5776.8
7.5°	8524.4	8313.4	7789.2	7117.2	6332.7	5738.1	5206.9	4865.6	4622.9	4545.5	4468.1
10°	8805.9	8499.8	7680.1	6635.2	5505.9	4749.5	4179.5	3912.2	3746.8	3690.5	3648.3
12.5°	9133.1	8714.4	7535.9	6047.7	4654.5	3926.3	3563.9	3430.2	3377.4	3359.8	3349.3
15°	9544.7	8981.9	7317.8	5351.1	3933.3	3423.2	3268.3	3250.8	3257.8	3250.8	3247.2
17.5°	10033.7	9273.8	6962.4	4633.4	3447.8	3166.3	3110.1	3124.1	3141.7	3138.1	3131.2
20°	10568.5	9562.3	6508.5	3996.6	3117.0	2983.4	2951.7	2965.8	2979.9	2972.8	2969.3
22.5°	11177.1	9871.9	6005.5	3500.6	2895.4	2814.5	2779.3	2782.9	2782.9	2768.7	2761.8
25°	11905.4	10213.2	5477.7	3148.7	2726.6	2663.3	2621.0	2607.0	2585.9	2543.6	2536.6
27.5°	12774.4	10575.5	4971.1	2902.5	2592.8	2533.1	2483.8	2448.6	2395.8	2325.5	2318.4
30°	13752.4	11015.3	4541.9	2747.7	2487.4	2427.5	2371.2	2318.4	2241.1	2153.1	2146.0
32.5°	14902.9	11486.8	4228.8	2645.6	2392.4	2329.0	2262.2	2198.8	2114.4	2026.4	2030.0
35°	16275.0	12056.7	4045.9	2575.3	2318.4	2234.0	2160.2	2089.8	2026.4	1949.0	1942.0
37.5°	17763.1	12661.8	3989.6	2540.1	2269.2	2139.1	2054.6	2005.3	1998.3	1952.5	1949.0
40°	19392.0	13379.5	4031.8	2519.0	2216.5	2047.5	1956.1	1945.6	1963.1	1882.2	1885.7
42.5°	21115.9	14230.9	4102.2	2494.3	2142.6	1956.1	1868.2	1868.2	1854.0	1741.5	1741.5
45°	22980.5	15212.4	4172.5	2434.6	2054.6	1864.6	1797.7	1773.1	1713.3	1604.2	1600.7
47.5°	24859.2	16211.6	4225.3	2325.5	1949.0	1787.2	1727.4	1671.2	1583.2	1484.6	1481.1
50°	26642.9	17108.7	4169.0	2163.7	1829.4	1713.3	1650.0	1572.7	1477.6	1410.8	1400.3
52.5°	28236.6	17886.2	3929.7	1973.6	1702.8	1635.9	1579.6	1498.8	1421.4	1350.9	1344.0
55°	29622.8	18516.0	3507.6	1794.3	1590.2	1569.1	1512.8	1410.8	1305.2	1245.4	1238.4
57.5°	30952.6	18994.5	2979.9	1646.5	1488.2	1495.2	1410.8	1319.3	1220.8	1157.4	1150.5
60°	32722.2	19634.8	2445.1	1509.3	1379.1	1400.3	1308.7	1241.9	1118.8	1037.8	1027.3
62.5°	35550.8	20630.4	1942.0	1340.4	1252.4	1259.5	1220.8	1139.9	992.1	897.1	890.1
65°	37795.4	20264.5	1530.4	1157.4	1108.2	1118.8	1118.8	1030.8	872.5	763.4	752.9
67.5°	37542.1	17351.5	1220.8	978.1	971.0	978.1	1002.7	928.8	774.0	686.0	672.0
70°	34583.4	13801.7	978.1	812.7	844.4	826.8	897.1	847.9	696.6	608.6	598.1
72.5°	28219.1	9942.3	745.9	672.0	647.3	675.5	809.1	763.4	580.5	482.0	471.4
75°	16489.6	5305.4	555.9	531.3	467.9	562.9	717.7	650.9	443.3	355.4	344.8
77.5°	5368.6	1850.5	408.2	390.5	348.3	453.9	612.1	548.8	362.3	281.5	270.9
80°	1438.9	559.3	278.0	256.9	225.2	337.7	485.5	436.2	260.3	183.0	179.4
82.5°	577.0	235.7	161.8	144.2	123.1	232.2	383.5	351.8	193.5	116.1	116.1
85°	186.4	77.4	59.8	45.7	56.3	144.2	228.7	239.2	137.2	59.8	45.7
87.5°	24.6	10.6	10.6	14.0	10.6	24.6	70.3	66.8	38.7	7.1	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)