

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: P971584

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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
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
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56173.1 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
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

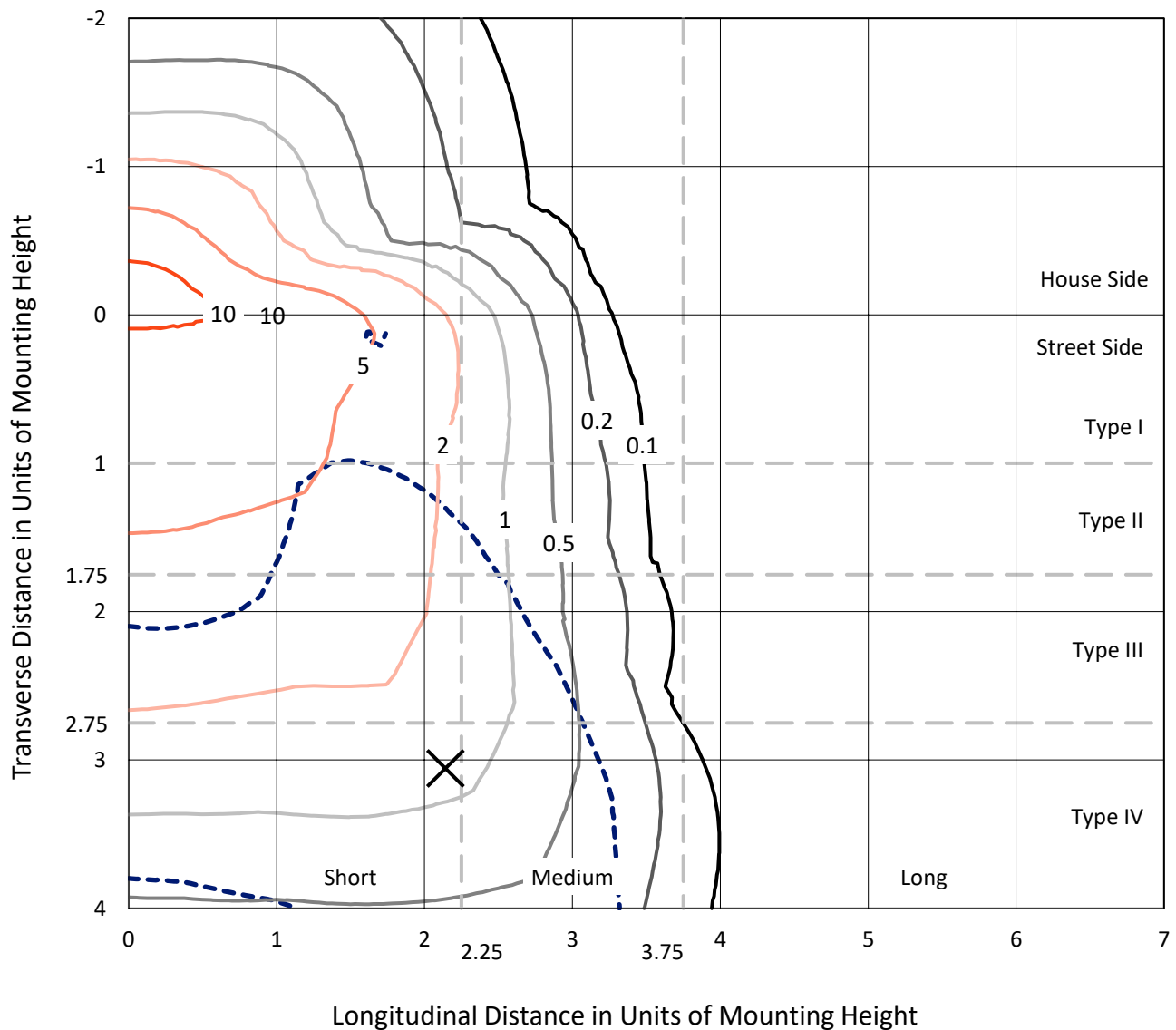


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Iso-Footcandle Lines of Horizontal Illumination

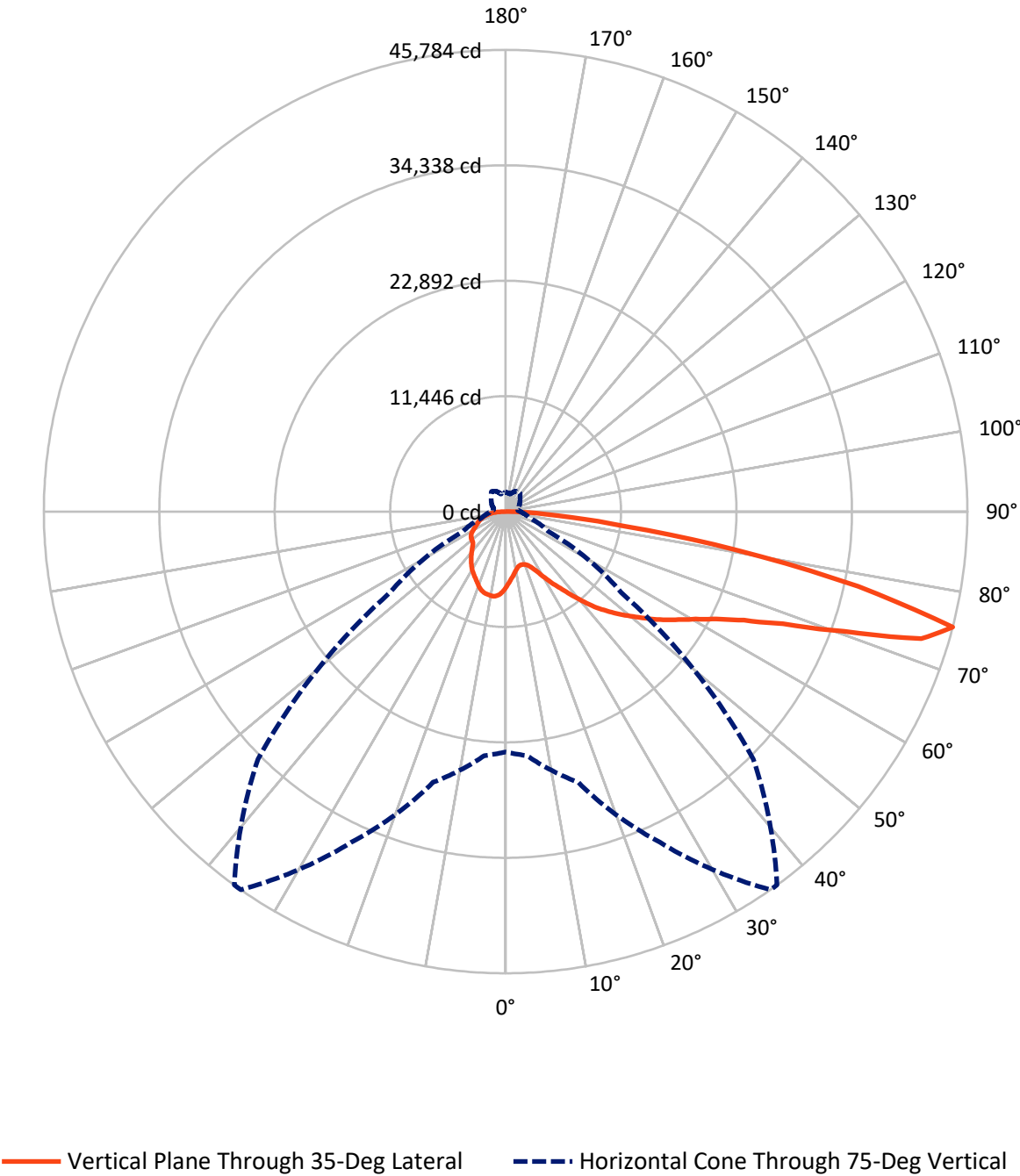
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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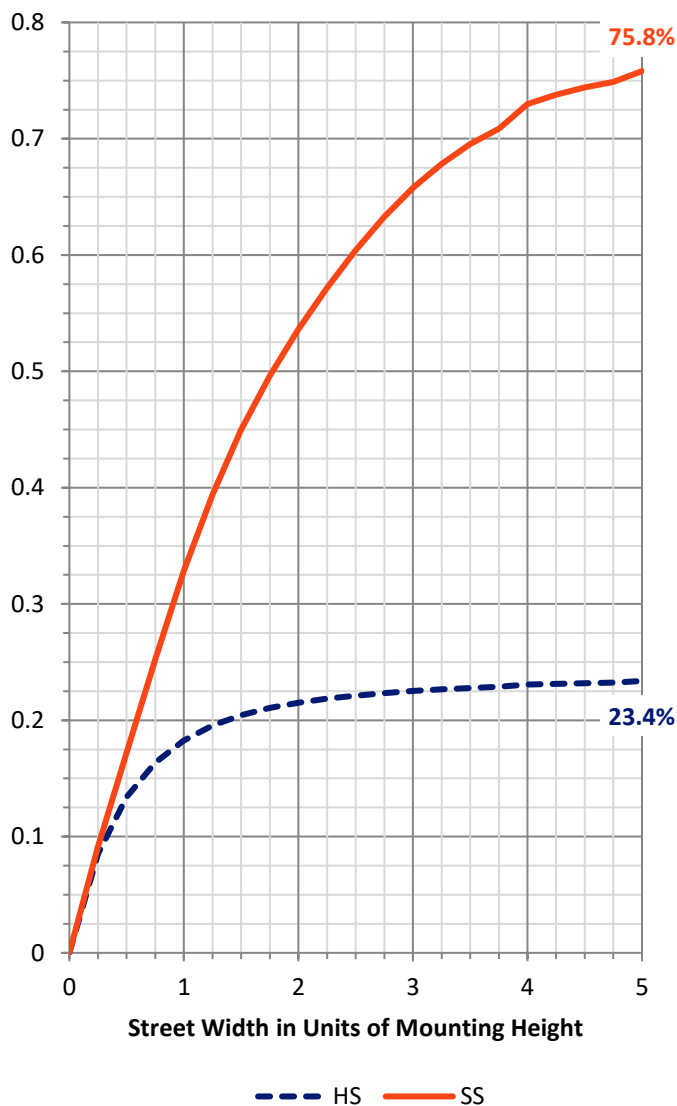
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13367.8	0.0	13367.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	42805.3	0.0	42805.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	56173.1	0.0	56173.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.7	1.3
10°-20°	2044.3	3.6
20°-30°	3432.8	6.1
30°-40°	5335.1	9.5
40°-50°	7918.7	14.1
50°-60°	10932.3	19.5
60°-70°	13263.4	23.6
70°-80°	10961.2	19.5
80°-90°	1576.6	2.8
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°	56173.1	100.0
0°-180°	56173.1	100.0

Coefficient of Utilization



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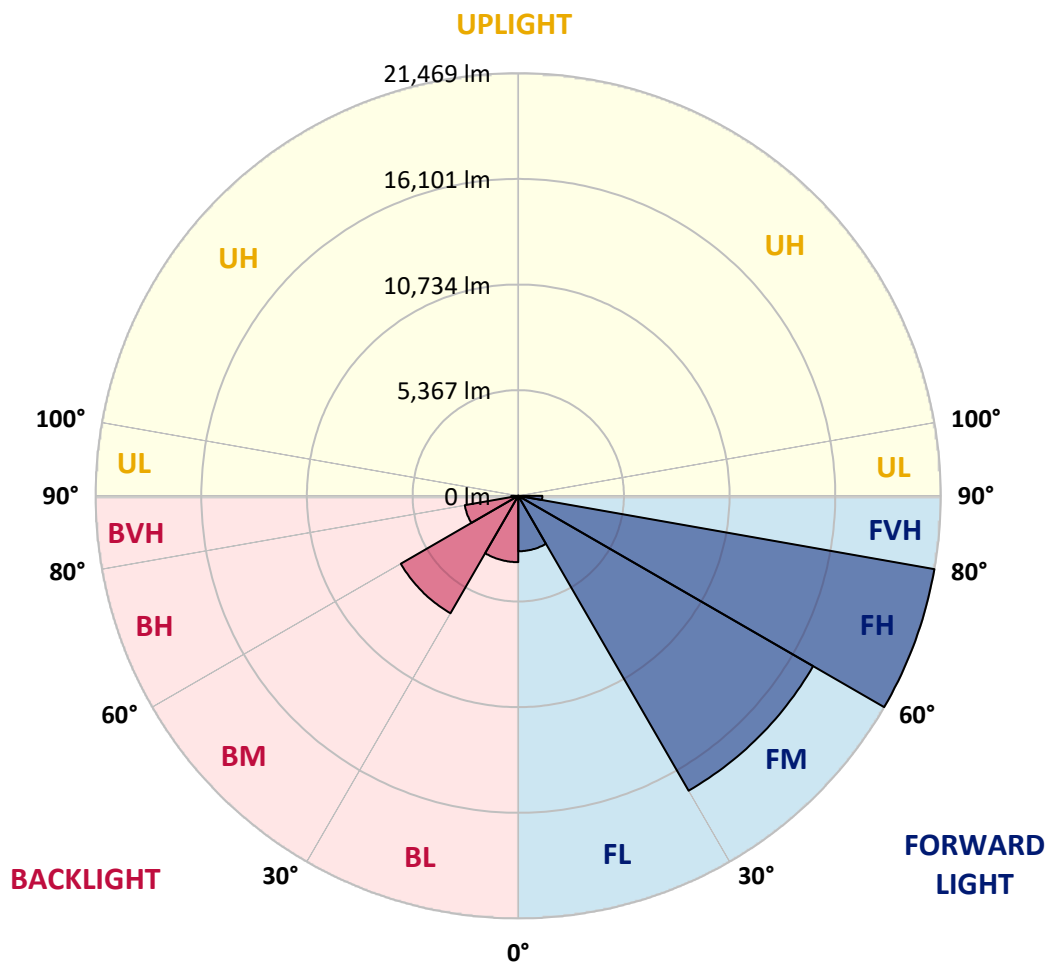
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2817.0	5.0			
FM	(30°-60°)	17298.3	30.8			
FH	(60°-80°)	21468.5	38.2			G5
FVH	(80°-90°)	1221.6	2.2			G5
BL	(0°-30°)	3368.9	6.0	B4/5000		
BM	(30°-60°)	6887.9	12.3	B4/8500		
BH	(60°-80°)	2756.0	4.9	B4/5000		G4/5000
BVH	(80°-90°)	355.0	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5
2.5°	6902.4	6944.9	6963.1	6954.0	6999.6	6993.5	7057.2	7136.3	7245.5	7351.8	7506.7
5°	6371.0	6416.5	6456.0	6492.5	6580.5	6607.9	6708.0	6859.9	7060.3	7263.8	7518.9
7.5°	5876.0	5915.5	5976.2	6043.0	6191.8	6219.2	6386.2	6623.0	6902.4	7200.0	7552.2
10°	5472.2	5511.6	5575.4	5651.2	5836.6	5870.0	6082.5	6398.4	6762.7	7139.2	7588.7
12.5°	5299.0	5311.1	5347.6	5423.5	5584.5	5605.7	5839.5	6200.9	6626.0	7093.7	7643.3
15°	5289.9	5314.2	5317.3	5356.8	5490.3	5499.4	5715.1	6073.3	6541.0	7084.6	7725.3
17.5°	5381.0	5399.2	5371.9	5396.2	5508.6	5523.7	5693.8	6012.6	6513.7	7124.1	7865.0
20°	5624.0	5639.1	5557.1	5523.7	5605.7	5617.9	5784.9	6052.1	6541.0	7206.1	8056.3
22.5°	6140.2	6149.3	5948.9	5812.3	5818.3	5824.4	5970.1	6213.0	6647.3	7354.9	8299.3
25°	6944.9	6938.8	6620.0	6355.8	6203.9	6170.6	6267.8	6474.2	6826.5	7552.2	8612.0
27.5°	7886.2	7840.7	7521.9	7127.1	6796.2	6747.6	6726.3	6814.3	7081.5	7813.4	8994.7
30°	8949.2	8906.6	8563.5	8047.3	7588.7	7509.8	7309.3	7263.8	7461.2	8168.7	9526.1
32.5°	10115.2	10087.8	9677.9	9052.4	8438.9	8347.9	8010.8	7889.3	8044.2	8706.1	10267.0
35°	11093.1	11068.8	10728.7	10084.9	9334.8	9222.4	8879.3	8742.6	8821.6	9395.6	11235.7
37.5°	11976.7	11964.5	11673.0	11165.9	10391.6	10254.9	9869.2	9823.7	9808.5	10303.5	12410.9
40°	12796.6	12766.3	12462.6	12195.3	11621.4	11496.9	11156.8	11117.4	11001.9	11421.0	13741.0
42.5°	13704.6	13625.6	13185.3	13060.8	12906.0	12802.7	12599.2	12605.3	12350.2	12681.2	15150.0
45°	14445.5	14400.0	13947.5	13874.6	14041.7	13999.1	14175.2	14220.8	13725.9	14002.2	16613.7
47.5°	15241.1	15198.6	14816.0	14764.4	15216.8	15229.0	15851.5	15866.7	15068.0	15374.8	18080.5
50°	16222.0	16161.3	15781.7	15845.5	16352.5	16398.2	17536.9	17433.6	16304.0	16768.6	19535.1
52.5°	16868.8	16905.2	16823.2	16926.5	17618.8	17661.4	19195.0	18930.7	17527.8	18144.2	20962.3
55°	17345.6	17418.4	17673.6	17910.4	18955.0	18997.6	20758.8	20355.0	18542.0	19419.6	22304.5
57.5°	17959.0	17855.7	18332.5	18794.1	20224.4	20336.7	22280.2	21727.5	19440.9	20519.0	23224.7
60°	18839.6	18766.7	19137.3	19820.5	21645.5	21824.7	23889.7	22963.5	20099.8	21390.4	23403.8
62.5°	20625.2	20443.0	20500.7	21105.0	23437.1	23674.0	25705.6	24041.5	20427.8	21730.5	22444.2
65°	23294.5	22981.6	22690.1	23109.2	25960.7	26194.5	27755.4	24888.7	20306.4	21071.6	19896.4
67.5°	26656.0	26346.3	25988.0	26382.8	29677.5	29862.9	30285.0	25365.5	19349.7	18532.9	15392.9
70°	29428.6	29313.2	29741.3	31366.0	35614.3	35620.4	33528.1	24970.7	16729.1	13139.8	8906.6
72.5°	29061.1	28991.3	31247.5	36270.2	43096.7	42935.8	36598.2	21982.6	11269.2	5927.6	3337.3
75°	23841.1	24293.5	27788.8	36182.2	45784.2	45763.0	34718.5	13974.8	4661.3	2456.7	1724.9
77.5°	12784.5	13501.1	18041.0	26713.8	35741.9	36279.4	24408.9	4889.0	2001.2	1573.0	1193.4
80°	4169.4	4795.0	7190.9	13601.3	23224.7	23124.4	10461.4	1919.2	1369.5	1114.5	825.9
82.5°	1770.4	1843.3	3212.9	6422.6	11919.0	11733.8	3331.2	1102.3	962.7	762.2	510.1
85°	692.4	774.4	1418.1	2969.8	5162.4	5050.0	1202.5	546.6	616.4	498.0	303.7
87.5°	227.8	276.3	507.2	1017.3	1606.4	1548.7	294.6	188.3	267.2	227.8	109.4
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°	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5	7485.5
2.5°	7549.2	7597.8	7655.5	7740.5	7813.4	7874.2	7937.9	7977.4	7992.5	8038.2	8035.1
5°	7603.9	7710.2	7852.8	7992.5	8129.2	8211.2	8284.0	8320.5	8354.0	8378.2	8384.3
7.5°	7695.0	7831.6	8056.3	8238.5	8354.0	8420.8	8469.4	8457.2	8469.4	8475.4	8484.5
10°	7773.9	7965.3	8232.5	8405.5	8493.7	8496.6	8484.5	8442.0	8420.8	8423.8	8429.8
12.5°	7868.1	8080.6	8369.1	8514.9	8539.2	8472.3	8420.8	8347.9	8320.5	8308.3	8302.3
15°	7995.6	8238.5	8518.0	8572.6	8511.8	8426.8	8338.8	8220.3	8159.6	8111.0	8126.2
17.5°	8150.5	8417.7	8633.3	8593.8	8463.2	8323.6	8180.8	8001.7	7877.1	7825.6	7828.5
20°	8366.0	8606.0	8721.4	8548.3	8350.9	8138.3	7895.4	7676.7	7561.3	7509.8	7503.6
22.5°	8627.2	8858.0	8806.4	8469.4	8190.0	7849.9	7546.2	7385.2	7327.5	7291.1	7297.2
25°	8940.0	9137.4	8867.2	8354.0	7925.8	7467.2	7233.4	7181.8	7154.4	7127.1	7127.1
27.5°	9347.0	9453.3	8912.7	8183.9	7512.7	7060.3	6975.2	6984.4	6975.2	6929.7	6938.8
30°	9884.4	9863.2	8955.2	7907.6	7039.1	6692.8	6699.0	6738.5	6744.5	6714.2	6729.3
32.5°	10591.9	10376.4	8976.4	7549.2	6586.5	6371.0	6377.0	6419.6	6449.9	6398.4	6422.6
35°	11448.3	10974.6	8943.0	7099.8	6237.3	6064.3	6018.7	6030.9	6040.0	5991.4	6024.7
37.5°	12447.4	11645.7	8794.3	6601.7	5948.9	5763.7	5666.5	5584.5	5535.9	5490.3	5520.8
40°	13543.6	12377.6	8520.9	6115.9	5626.9	5444.8	5299.0	5144.2	4980.2	4919.5	4946.8
42.5°	14691.5	13130.7	8190.0	5651.2	5256.5	5107.7	4952.8	4728.1	4482.1	4357.7	4372.9
45°	15881.9	13902.0	7865.0	5192.8	4877.0	4813.2	4634.0	4363.7	4096.5	3938.6	3926.5
47.5°	17048.0	14630.7	7388.3	4731.2	4521.6	4591.5	4451.8	4202.8	3905.1	3656.2	3628.8
50°	18162.5	15314.0	6607.9	4263.5	4233.1	4524.7	4391.1	4032.8	3692.7	3373.8	3346.4
52.5°	19267.8	15866.7	5608.8	3838.4	4078.3	4506.4	4312.1	3917.3	3501.3	3167.2	3130.9
55°	20206.1	16152.2	4646.1	3473.9	3853.6	4351.5	4218.0	3780.7	3231.0	2875.7	2845.4
57.5°	20740.6	15921.3	3844.5	3115.7	3543.8	4096.5	4057.1	3489.2	2909.2	2635.9	2599.4
60°	20509.8	14986.1	3188.6	2802.9	3249.2	3820.2	3777.6	3200.7	2663.2	2405.1	2368.6
62.5°	19237.4	13203.5	2669.2	2529.6	2982.0	3537.8	3498.2	2979.0	2474.9	2225.9	2186.4
65°	16674.5	10740.8	2265.4	2301.8	2711.7	3197.6	3255.3	2793.7	2326.1	2083.2	2043.6
67.5°	12717.7	7780.0	1949.5	2104.4	2447.6	2863.6	3030.6	2660.2	2201.6	1970.8	1934.4
70°	7248.6	4418.4	1682.3	1913.2	2213.8	2553.9	2857.5	2553.9	2067.9	1876.7	1852.4
72.5°	2748.2	2028.5	1454.6	1721.8	1989.0	2292.7	2666.2	2386.8	1913.2	1770.4	1746.1
75°	1466.7	1235.9	1223.7	1497.1	1730.9	2037.6	2426.3	2222.8	1797.7	1870.6	1931.3
77.5°	999.1	874.5	1023.4	1281.5	1448.5	1755.2	2171.3	1973.8	1557.8	1551.7	1430.3
80°	692.4	619.5	832.1	1032.5	1120.5	1475.8	1894.9	1694.4	1269.4	1184.3	1132.7
82.5°	416.0	403.8	622.5	771.3	792.5	1138.8	1570.0	1421.2	1038.5	905.0	911.0
85°	227.8	239.8	397.8	452.4	461.6	795.6	1229.9	1099.3	798.7	671.1	677.2
87.5°	63.8	82.0	145.8	179.2	221.7	413.0	731.8	652.9	400.9	279.4	279.4
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)