

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: P971452

Luminaire Tested: **NAV-SB6D-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51141.3 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

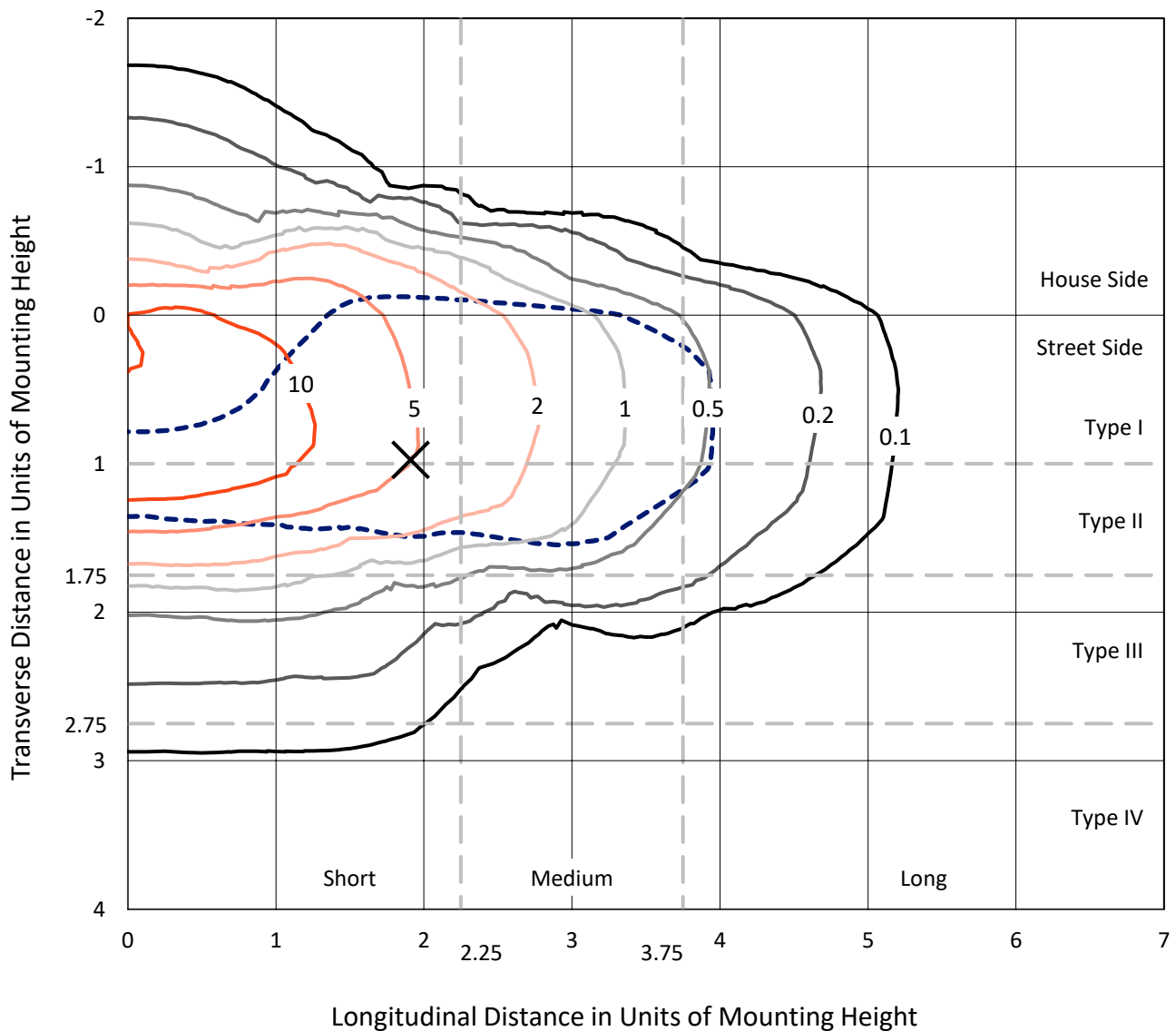
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

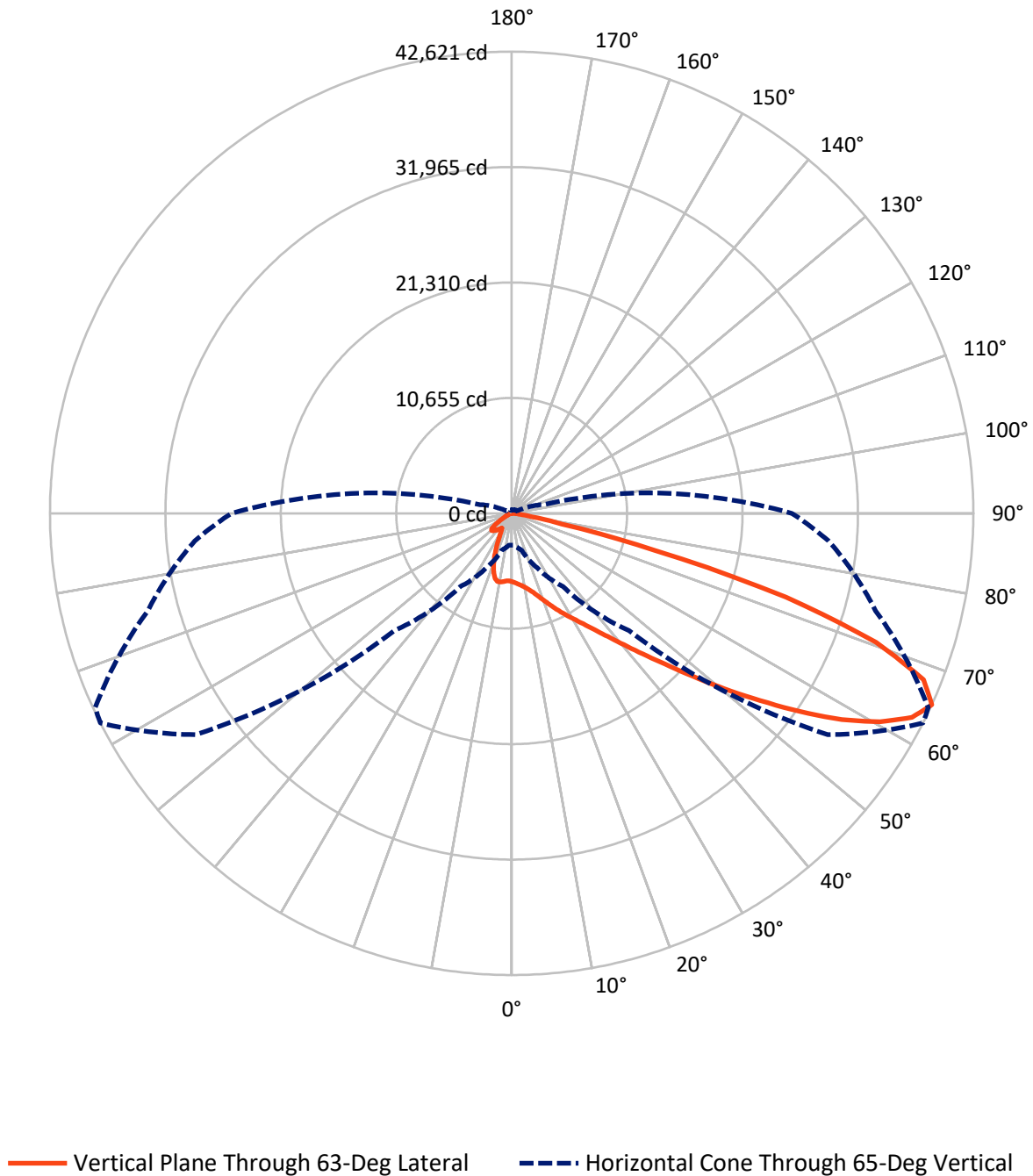
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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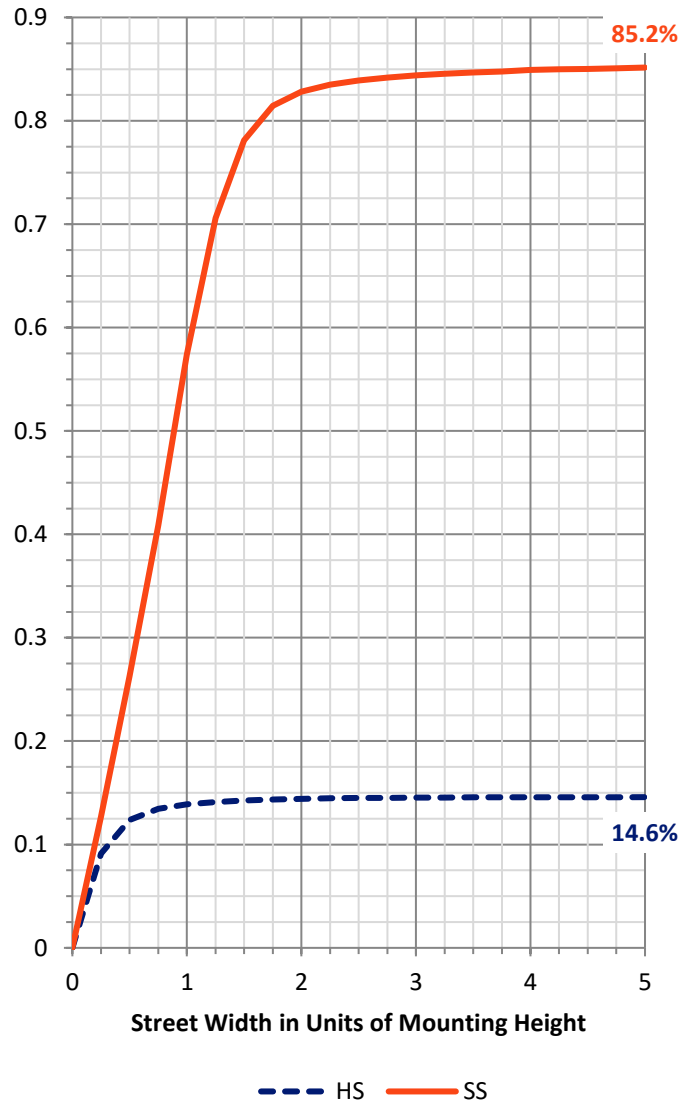
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7517.4	0.0	7517.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	43624.0	0.0	43624.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	51141.3	0.0	51141.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.7	1.2
10°-20°	1650.1	3.2
20°-30°	2873.2	5.6
30°-40°	5178.6	10.1
40°-50°	10270.7	20.1
50°-60°	13990.5	27.4
60°-70°	11167.1	21.8
70°-80°	5053.4	9.9
80°-90°	363.2	0.7
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°	51141.3	100.0
0°-180°	51141.3	100.0

Coefficient of Utilization



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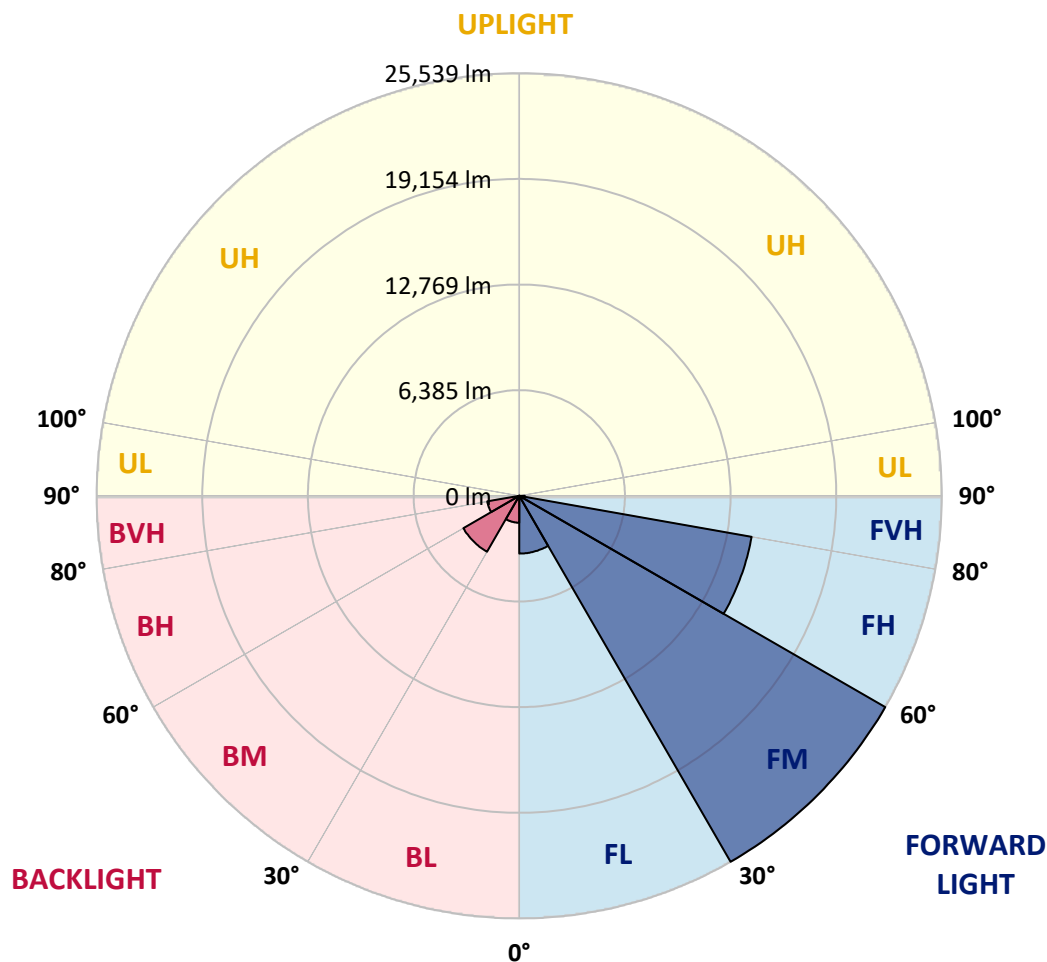
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3491.0	6.8			
FM	(30°-60°)	25538.7	49.9			
FH	(60°-80°)	14258.0	27.9			G5
FVH	(80°-90°)	336.3	0.7			G3/500
BL	(0°-30°)	1626.9	3.2	B3/2500		
BM	(30°-60°)	3901.1	7.6	B3/5000		
BH	(60°-80°)	1962.5	3.8	B3/2500		G3/2500
BVH	(80°-90°)	27.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8
2.5°	6459.5	6442.0	6466.6	6456.1	6449.0	6435.0	6427.9	6420.9	6406.8	6396.2	6354.1
5°	6477.2	6466.6	6491.2	6512.3	6533.5	6554.6	6565.1	6579.2	6565.1	6536.9	6494.8
7.5°	6329.4	6322.4	6375.1	6438.4	6533.5	6614.4	6702.4	6751.6	6755.2	6744.6	6698.8
10°	6318.8	6301.3	6354.1	6431.5	6554.6	6698.8	6853.7	6959.1	6973.3	7019.0	6969.7
12.5°	6484.3	6466.6	6540.5	6625.0	6751.6	6902.9	7092.9	7240.6	7261.7	7325.1	7289.9
15°	6762.1	6737.5	6822.0	6931.0	7092.9	7265.3	7465.8	7599.5	7617.1	7694.5	7631.1
17.5°	7085.8	7061.2	7159.7	7275.9	7451.7	7687.5	7919.7	8067.5	8088.6	8137.8	8021.6
20°	7500.9	7469.3	7546.8	7652.2	7838.8	8120.3	8398.1	8609.3	8605.7	8605.7	8415.8
22.5°	7983.0	7933.7	8000.6	8085.0	8261.0	8602.2	8971.6	9221.4	9221.4	9122.9	8809.8
25°	8500.2	8450.9	8524.8	8602.2	8757.0	9144.0	9576.8	9886.4	9900.5	9731.6	9232.0
27.5°	9147.5	9084.3	9140.5	9232.0	9323.5	9717.5	10231.1	10590.1	10597.1	10336.7	9633.1
30°	10393.0	10213.6	10037.7	9939.1	9981.3	10371.9	10920.8	11318.4	11353.5	10994.7	10069.3
32.5°	12672.9	12637.7	12018.4	11209.3	10787.1	11075.5	11691.3	12169.7	12190.8	11730.0	10635.8
35°	16215.8	16173.6	15177.9	13636.9	12261.3	12018.4	12627.2	13193.6	13179.6	12658.7	11371.1
37.5°	20444.8	20406.1	19093.7	17032.0	14805.0	13443.4	13833.9	14428.5	14516.5	13833.9	12321.0
40°	24058.1	23913.8	23083.5	21095.6	18182.5	15807.7	15550.8	15944.9	16036.3	15227.2	13527.8
42.5°	26795.2	26672.1	26249.9	25007.9	22270.8	19304.8	17573.8	17725.1	17827.2	16856.1	14914.1
45°	28213.1	28185.0	28353.9	28237.8	26436.4	23597.1	20465.9	19836.1	19874.9	18661.0	16486.7
47.5°	28413.7	28399.6	29170.2	30260.8	30018.0	28438.3	24177.7	22467.8	22330.5	20698.1	18196.6
50°	27231.6	27203.4	28681.0	30725.2	32410.5	32505.4	28392.6	25433.7	25131.2	22805.5	19980.3
52.5°	23456.4	23449.4	25877.0	29279.2	33251.3	36066.0	32558.2	28691.6	28185.0	25036.1	21866.1
55°	18048.8	18179.0	20962.0	24983.4	31717.4	37779.3	36298.2	32308.4	31530.9	27280.8	23604.2
57.5°	12785.4	12975.5	15726.8	19308.3	26960.7	36766.1	38827.8	35932.3	35095.0	29518.5	25366.9
60°	6867.7	7036.6	9791.4	14066.1	20057.7	32987.5	40161.2	39077.6	38286.0	31643.5	26957.1
62.5°	4091.8	4148.1	5288.0	9080.7	13566.5	25201.5	39594.8	41473.5	40822.7	33427.3	28339.8
65°	2937.8	2948.3	3521.8	5544.8	8236.3	15311.6	35622.6	42620.5	42420.0	34771.3	29363.6
67.5°	2473.3	2466.4	2705.6	3683.6	5611.7	7669.9	27301.9	40998.6	41850.0	35622.6	29944.1
70°	2121.5	2132.1	2413.6	2698.5	4218.4	4341.6	13573.6	35696.5	37512.0	35847.8	29909.0
72.5°	1579.7	1614.9	1875.2	2459.3	3184.1	2987.1	4686.4	26468.1	29750.6	33775.6	28357.4
75°	1115.3	1132.9	1319.4	2068.8	2374.8	2174.3	2392.5	13682.6	17890.5	25894.6	23210.1
77.5°	858.4	890.1	999.2	1446.0	2339.7	1526.9	1463.6	4735.6	7275.9	15642.3	15913.2
80°	464.4	520.7	721.3	1044.9	1643.1	1080.1	724.8	1885.8	2466.4	7314.5	6135.9
82.5°	239.2	267.4	503.1	752.9	935.8	942.9	358.9	784.5	1016.8	2258.7	840.9
85°	95.0	116.1	337.7	415.1	482.0	464.4	161.8	316.6	365.9	626.3	256.9
87.5°	21.1	35.2	123.1	95.0	91.4	98.5	38.7	73.9	70.3	73.9	45.7
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°	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8	6311.8
2.5°	6350.5	6336.4	6297.7	6255.5	6206.3	6178.1	6160.6	6157.0	6132.4	6114.7	6132.4
5°	6456.1	6442.0	6368.1	6280.2	6185.2	6111.3	6040.9	5977.6	5886.1	5868.5	5861.5
7.5°	6667.1	6628.5	6508.9	6389.2	6209.8	5995.1	5734.8	5435.8	5168.4	5087.5	5048.7
10°	6927.5	6874.8	6723.5	6512.3	6114.7	5530.8	4900.9	4316.9	3852.6	3722.4	3673.1
12.5°	7223.1	7177.4	6976.8	6586.2	5717.2	4658.2	3694.2	2969.4	2519.1	2406.5	2374.8
15°	7574.9	7508.0	7230.0	6473.7	5006.5	3539.4	2536.7	2107.5	1945.7	1924.5	1903.4
17.5°	7947.8	7838.8	7455.2	6069.0	4049.6	2515.6	1959.7	1836.6	1766.2	1745.1	1734.5
20°	8289.1	8148.3	7589.0	5456.9	3025.7	1959.7	1755.6	1674.7	1611.4	1586.7	1572.7
22.5°	8630.4	8429.8	7589.0	4623.1	2269.2	1738.0	1611.4	1537.5	1463.6	1431.9	1414.4
25°	8985.7	8718.3	7455.2	3694.2	1826.0	1593.8	1474.2	1393.3	1329.9	1291.2	1277.1
27.5°	9330.5	8961.1	7149.2	2814.6	1625.4	1467.1	1347.5	1270.1	1210.3	1182.1	1182.1
30°	9657.7	9200.3	6719.9	2135.6	1495.3	1344.0	1231.4	1164.5	1104.7	1076.6	1080.1
32.5°	10101.0	9502.9	6262.5	1752.1	1382.7	1227.8	1125.9	1062.5	1009.7	988.6	988.6
35°	10716.7	9949.7	5868.5	1720.5	1287.7	1132.9	1030.8	971.1	918.3	900.7	900.7
37.5°	11589.3	10671.0	5661.0	1931.5	1210.3	1048.5	953.5	890.1	840.9	826.8	823.3
40°	12665.8	11649.0	5773.5	2142.7	1157.5	974.6	883.1	819.8	777.6	759.9	756.4
42.5°	13943.0	12855.9	6396.2	2304.5	1122.4	911.2	816.2	745.9	717.7	710.7	710.7
45°	15410.1	14182.2	7349.7	2476.9	1066.0	851.5	749.4	696.6	675.5	672.0	668.5
47.5°	17077.7	15638.8	8454.4	2691.4	1009.7	795.1	696.6	661.4	643.8	636.8	636.8
50°	18731.4	17105.9	9590.8	2811.1	964.0	742.4	654.4	626.3	612.2	608.6	608.6
52.5°	20462.4	18615.2	10509.1	2698.5	925.3	700.2	619.2	598.1	584.0	580.6	580.6
55°	22112.4	19836.1	10667.5	2290.4	847.9	657.9	580.6	570.0	552.4	552.4	548.9
57.5°	23533.8	20448.3	9548.6	1681.7	770.5	594.6	541.8	531.3	517.2	513.6	510.1
60°	24839.1	20272.3	7370.8	1132.9	686.0	531.3	492.5	485.5	471.5	453.9	450.4
62.5°	25574.5	19498.4	5041.7	738.8	601.7	464.4	436.2	432.8	401.1	365.9	358.9
65°	25852.3	17908.1	3145.3	538.3	503.1	397.6	376.5	369.4	323.7	285.0	281.5
67.5°	25609.6	15290.4	1586.7	425.7	397.6	330.8	309.7	309.7	278.0	242.7	239.2
70°	24638.5	11462.6	668.5	341.3	306.1	253.3	253.3	267.4	235.7	197.0	193.5
72.5°	22531.1	7712.1	355.4	260.3	228.7	179.5	207.6	218.1	186.4	147.8	147.8
75°	17911.6	4703.9	246.3	193.5	144.2	126.7	158.4	165.3	126.7	98.5	95.0
77.5°	12250.7	2702.0	165.3	123.1	91.4	73.9	109.1	102.0	66.8	45.7	49.3
80°	5379.5	1125.9	95.0	56.3	35.2	28.2	38.7	28.2	21.1	14.0	14.0
82.5°	629.8	263.8	35.2	21.1	14.0	7.1	3.5	0.0	0.0	0.0	0.0
85°	130.2	31.7	17.6	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.6	7.1	3.5	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)