

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: P970350

Luminaire Tested: **NAV-SB6B-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29841.9 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

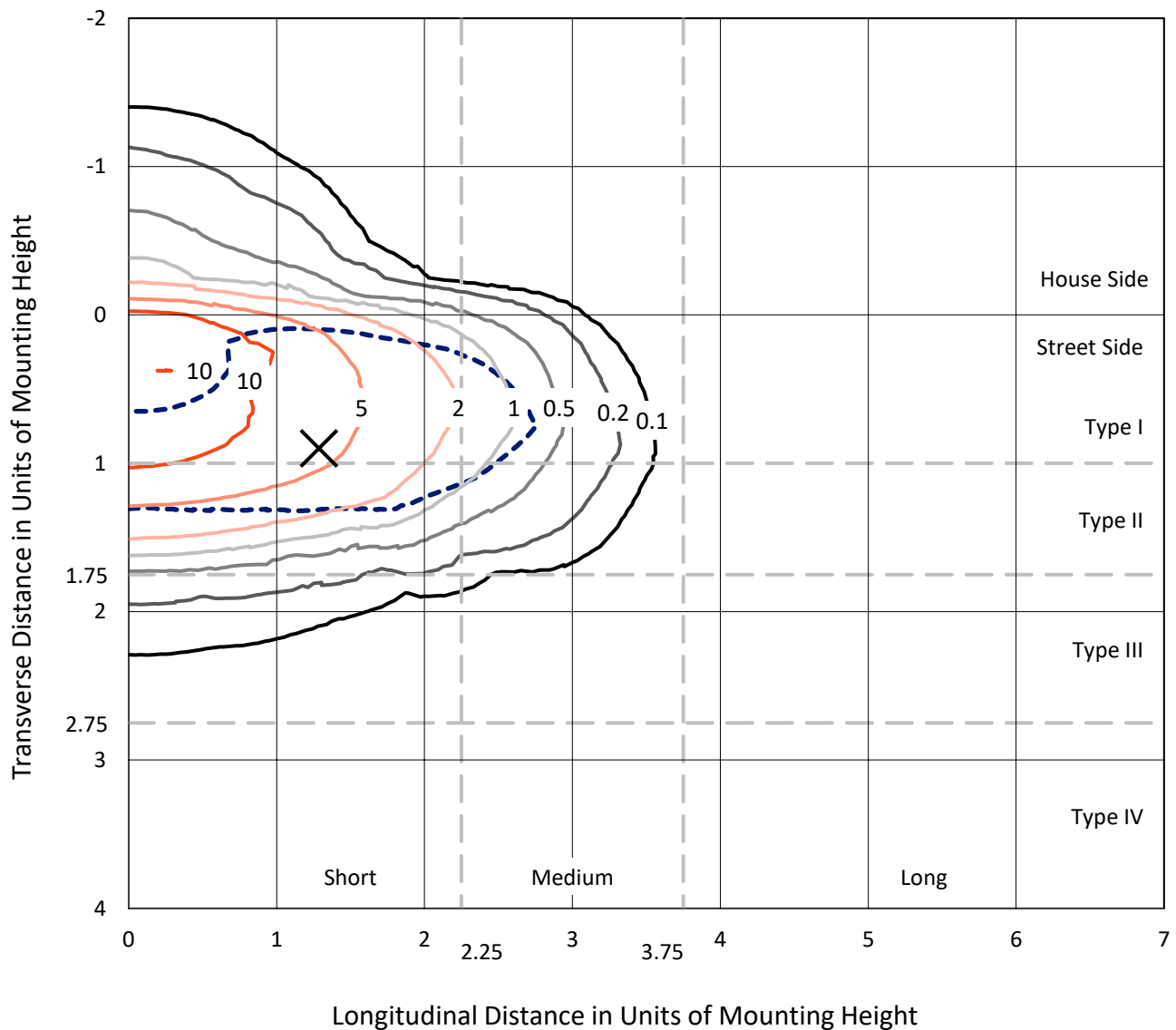
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

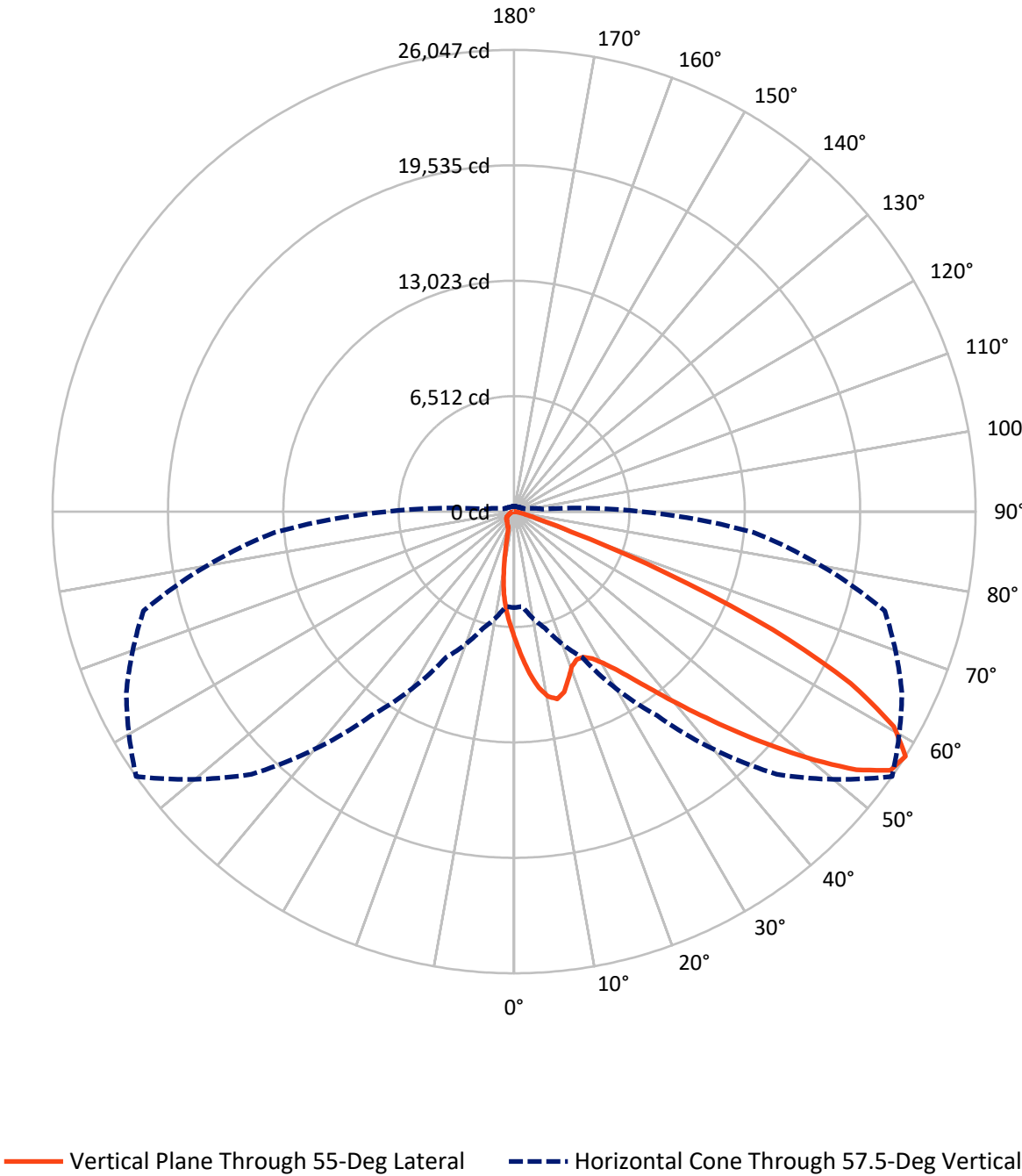
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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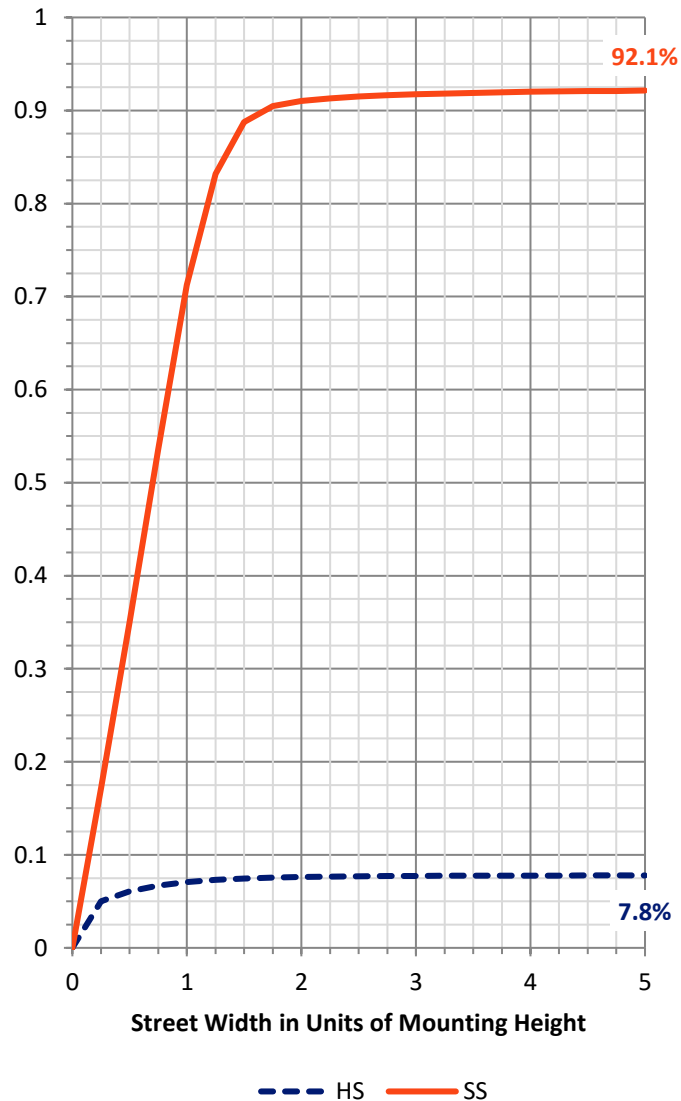
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2330.5	0.0	2330.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	27511.3	0.0	27511.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	29841.9	0.0	29841.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.1	2.2
10°-20°	1616.2	5.4
20°-30°	2585.9	8.7
30°-40°	4376.8	14.7
40°-50°	7185.8	24.1
50°-60°	7897.7	26.5
60°-70°	4530.1	15.2
70°-80°	925.6	3.1
80°-90°	54.6	0.2
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°	29841.9	100.0
0°-180°	29841.9	100.0

Coefficient of Utilization



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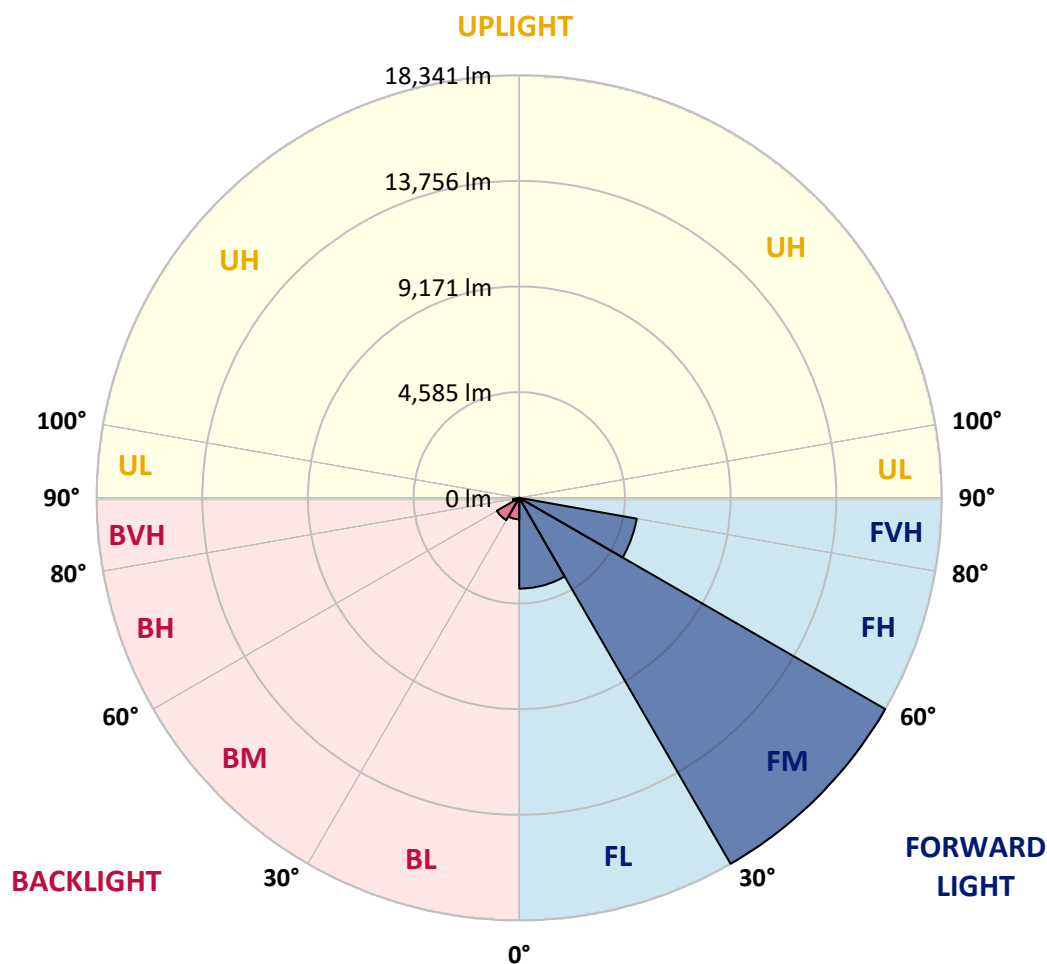
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3940.8	13.2			
FM	(30°-60°)	18341.0	61.5			
FH	(60°-80°)	5178.6	17.4			G3/7500
FVH	(80°-90°)	50.9	0.2			G1/100
BL	(0°-30°)	930.4	3.1	B2/1000		
BM	(30°-60°)	1119.3	3.8	B2/2500		
BH	(60°-80°)	277.2	0.9	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2
2.5°	8922.7	8810.5	8793.9	8771.8	8558.3	8398.2	8166.4	7912.5	7627.2	7336.5	7207.7
5°	10308.3	10220.0	10203.4	10100.3	9857.4	9585.1	9172.9	8652.2	8120.4	7494.8	7226.1
7.5°	10577.0	10560.4	10635.8	10632.1	10599.0	10383.8	10036.0	9415.9	8617.3	7689.9	7273.9
10°	9379.1	9421.4	9645.9	9842.8	10374.5	10683.7	10608.2	10096.7	9128.8	7912.5	7327.3
12.5°	8287.8	8238.1	8398.2	8620.9	9239.1	10159.3	10845.6	10665.2	9713.9	8164.5	7406.4
15°	7603.3	7583.1	7673.3	7776.3	8247.4	9174.8	10569.6	11127.2	10277.1	8462.7	7526.1
17.5°	7384.4	7367.8	7395.4	7421.2	7726.7	8444.3	9912.7	11410.5	10816.2	8803.1	7658.5
20°	7562.9	7540.8	7537.1	7516.8	7643.8	8133.3	9318.3	11430.8	11300.1	9112.2	7772.6
22.5°	8083.6	8057.8	7967.6	7886.8	7897.7	8175.6	9053.3	11228.4	11664.5	9401.1	7844.4
25°	9027.6	8985.3	8797.6	8525.2	8352.2	8470.0	9093.8	10961.6	12012.3	9627.4	7809.5
27.5°	10208.9	10153.8	9912.7	9507.9	9112.2	8968.6	9386.4	10777.6	12301.1	9800.4	7733.9
30°	11366.3	11294.6	11057.2	10742.5	10164.7	9712.1	9914.5	10858.4	12645.2	9980.7	7634.6
32.5°	12615.8	12547.7	12233.1	11843.0	11364.5	10755.4	10637.7	11254.1	13066.6	10232.9	7564.7
35°	14196.5	14089.8	13642.5	13110.8	12602.9	11986.5	11616.6	11936.8	13627.9	10617.5	7603.3
37.5°	15996.0	15852.5	15370.5	14636.3	13973.8	13283.8	12809.0	12875.2	14450.3	11132.6	7723.0
40°	17692.6	17562.0	17116.7	16424.8	15593.1	14755.8	14249.9	14102.6	15585.7	11760.1	7932.7
42.5°	18710.2	18592.5	18404.8	18112.2	17411.2	16557.3	15918.8	15600.5	16929.0	12510.9	8188.5
45°	18767.2	18664.2	18916.4	19256.8	19118.7	18550.1	17771.8	17188.4	18277.8	13215.6	8453.5
47.5°	17854.6	17784.7	18550.1	19738.8	20331.4	20570.6	19852.9	18644.0	19391.1	13721.7	8562.0
50°	15366.8	15341.0	16916.1	19098.5	20793.3	22340.8	22048.2	19998.4	20254.1	13982.9	8459.0
52.5°	13324.3	13230.4	14148.6	17048.6	20121.6	23271.9	24193.8	21326.9	20857.6	14032.7	8217.9
55°	10105.9	10023.1	11175.0	13618.7	17955.7	22940.6	25763.4	22697.8	21290.1	13905.7	7785.5
57.5°	5420.9	5369.5	6825.0	9064.4	14036.4	20953.4	26046.8	24147.8	21654.5	13569.0	7180.1
60°	2110.6	2101.5	2646.0	4397.9	8530.8	17046.8	24617.0	25018.1	21882.6	13155.0	6674.1
62.5°	1277.0	1304.6	1393.0	1974.5	3768.5	10589.8	21321.3	24028.2	22035.3	12775.9	6256.4
65°	1056.3	1058.1	1069.1	1356.2	1805.1	4431.0	16051.3	20771.1	21658.0	12100.5	5663.8
67.5°	905.4	921.9	964.2	1076.5	1273.4	1943.2	9241.0	16089.9	19363.5	10529.1	4740.1
70°	713.9	736.1	789.5	885.1	982.7	1216.3	3415.2	10705.7	14792.6	7936.4	3584.5
72.5°	601.7	599.8	627.5	719.4	780.2	855.7	1313.8	5998.7	8597.0	3788.8	1773.9
75°	465.6	483.9	519.0	601.7	638.5	620.1	712.2	2191.6	3080.3	1148.2	603.5
77.5°	364.4	379.0	410.3	491.3	528.1	439.8	410.3	783.9	989.9	412.2	272.3
80°	163.8	176.6	279.7	362.5	430.6	303.6	222.6	401.2	439.8	187.7	138.0
82.5°	29.4	49.7	163.8	191.4	220.8	196.9	115.9	208.0	215.2	75.4	47.9
85°	1.8	3.7	57.1	69.9	88.4	64.4	35.0	82.8	71.8	25.7	18.4
87.5°	0.0	0.0	0.0	1.8	1.8	9.2	11.1	14.8	11.1	9.2	7.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2	7191.2
2.5°	7075.3	6813.9	6560.0	6352.0	6230.6	6024.5	5888.3	5866.3	5809.2	5858.9
5°	6939.0	6471.6	5998.7	5575.5	5227.7	4778.8	4443.9	4302.1	4178.9	4221.3
7.5°	6874.7	6136.8	5400.7	4677.6	3934.2	3216.6	2682.8	2460.2	2291.0	2314.9
10°	6788.2	5789.0	4635.3	3531.1	2535.6	1827.3	1459.2	1323.1	1247.6	1249.5
12.5°	6722.0	5373.2	3746.5	2394.0	1543.9	1166.7	1052.6	1019.5	997.3	999.2
15°	6688.8	4883.6	2868.8	1595.4	1104.0	988.1	960.5	945.8	931.1	929.3
17.5°	6633.6	4339.0	2099.6	1164.8	966.1	925.6	901.7	885.1	866.7	863.0
20°	6550.8	3720.7	1534.6	984.4	905.4	874.0	840.9	818.9	796.7	793.0
22.5°	6398.0	3067.4	1179.5	910.8	861.2	826.3	785.8	759.9	737.9	734.2
25°	6114.6	2454.7	993.6	864.9	822.6	780.2	736.1	701.1	680.8	677.1
27.5°	5755.9	1928.4	901.7	822.6	772.8	734.2	684.5	651.4	633.0	629.3
30°	5332.7	1485.0	848.3	774.7	713.9	680.8	636.6	609.1	598.0	598.0
32.5°	4876.3	1186.8	826.3	726.8	662.5	625.7	590.7	579.6	575.9	574.1
35°	4447.6	1030.4	815.2	688.2	616.4	581.5	566.7	568.6	575.9	575.9
37.5°	4066.7	980.8	809.6	660.6	575.9	544.7	553.9	570.4	563.0	563.0
40°	3722.5	986.3	806.0	640.3	542.8	524.4	542.8	529.9	511.6	509.7
42.5°	3459.4	1032.3	798.6	623.8	522.5	509.7	502.4	482.2	480.3	483.9
45°	3268.0	1072.8	796.7	616.4	500.5	476.6	467.4	447.1	483.9	493.1
47.5°	3041.7	1072.8	796.7	590.7	463.7	454.5	439.8	417.7	454.5	463.7
50°	2749.2	1004.7	765.5	561.2	434.3	428.8	403.0	375.4	368.0	373.5
52.5°	2379.2	881.4	686.3	520.7	404.9	393.8	362.5	342.2	336.7	336.7
55°	1957.9	737.9	579.6	461.9	373.5	353.3	331.2	322.1	316.5	312.8
57.5°	1591.7	605.4	465.6	410.3	344.1	318.4	311.0	299.9	290.7	285.3
60°	1306.5	476.6	384.6	364.4	314.7	290.7	288.9	274.2	250.3	246.6
62.5°	1008.4	349.6	323.9	316.5	285.3	265.0	261.3	231.9	195.1	187.7
65°	712.2	272.3	261.3	277.9	253.9	235.5	226.3	182.1	143.5	138.0
67.5°	500.5	228.2	206.1	242.9	220.8	196.9	191.4	154.6	119.6	115.9
70°	357.0	185.8	169.3	208.0	176.6	173.0	162.0	128.8	97.5	93.9
72.5°	252.0	141.7	130.7	180.3	121.5	149.0	132.5	99.3	73.6	69.9
75°	185.8	101.2	92.0	104.9	88.4	112.2	93.9	66.2	46.0	44.2
77.5°	136.1	64.4	55.2	51.6	51.6	69.9	51.6	27.6	20.2	18.4
80°	95.7	29.4	25.7	22.0	20.2	16.6	7.4	3.7	1.8	1.8
82.5°	57.1	12.9	12.9	9.2	5.5	0.0	0.0	0.0	0.0	0.0
85°	12.9	5.5	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	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

(END OF REPORT)