

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: P885460

Luminaire Tested: **NAV-SB6D-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46034 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

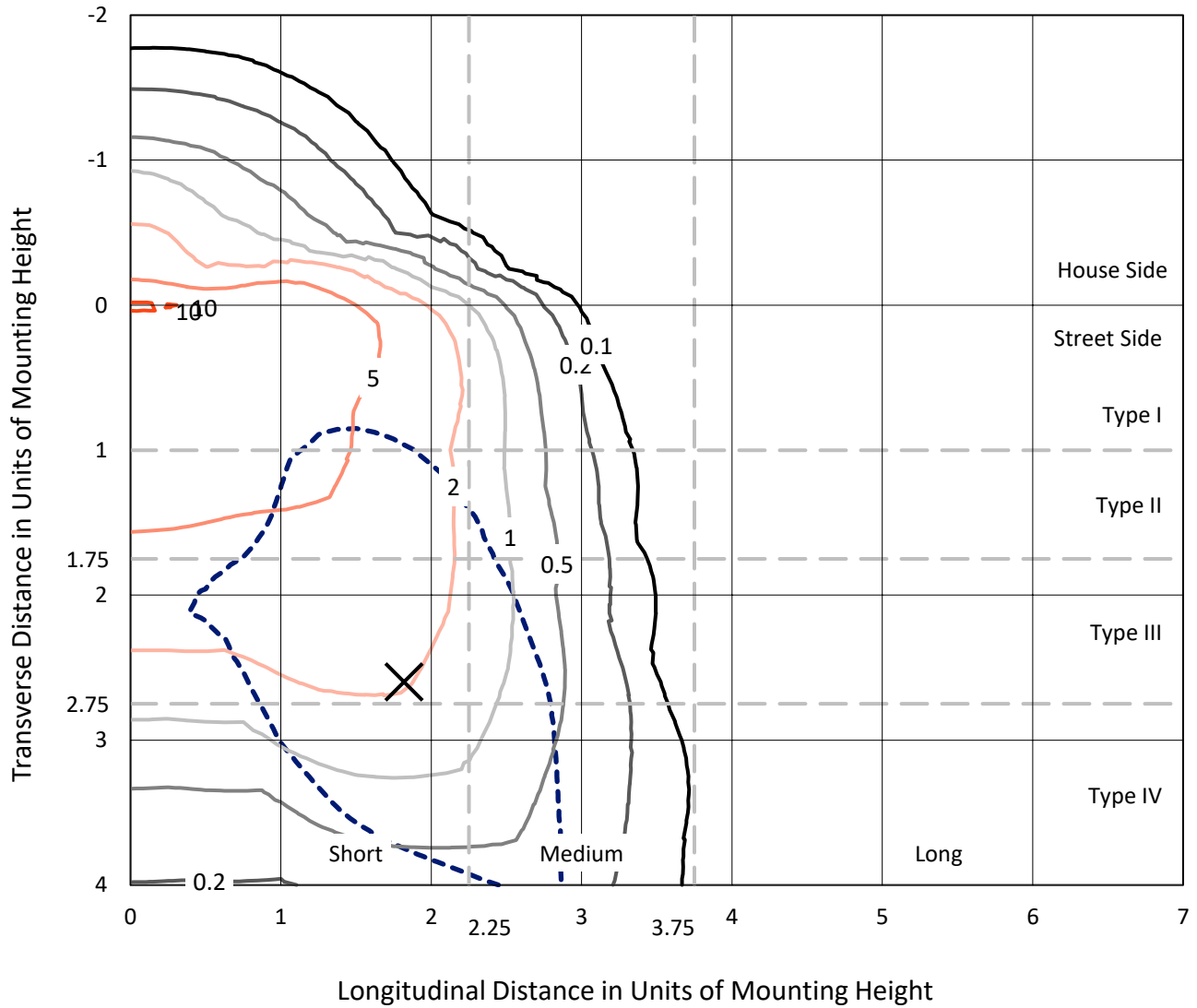
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

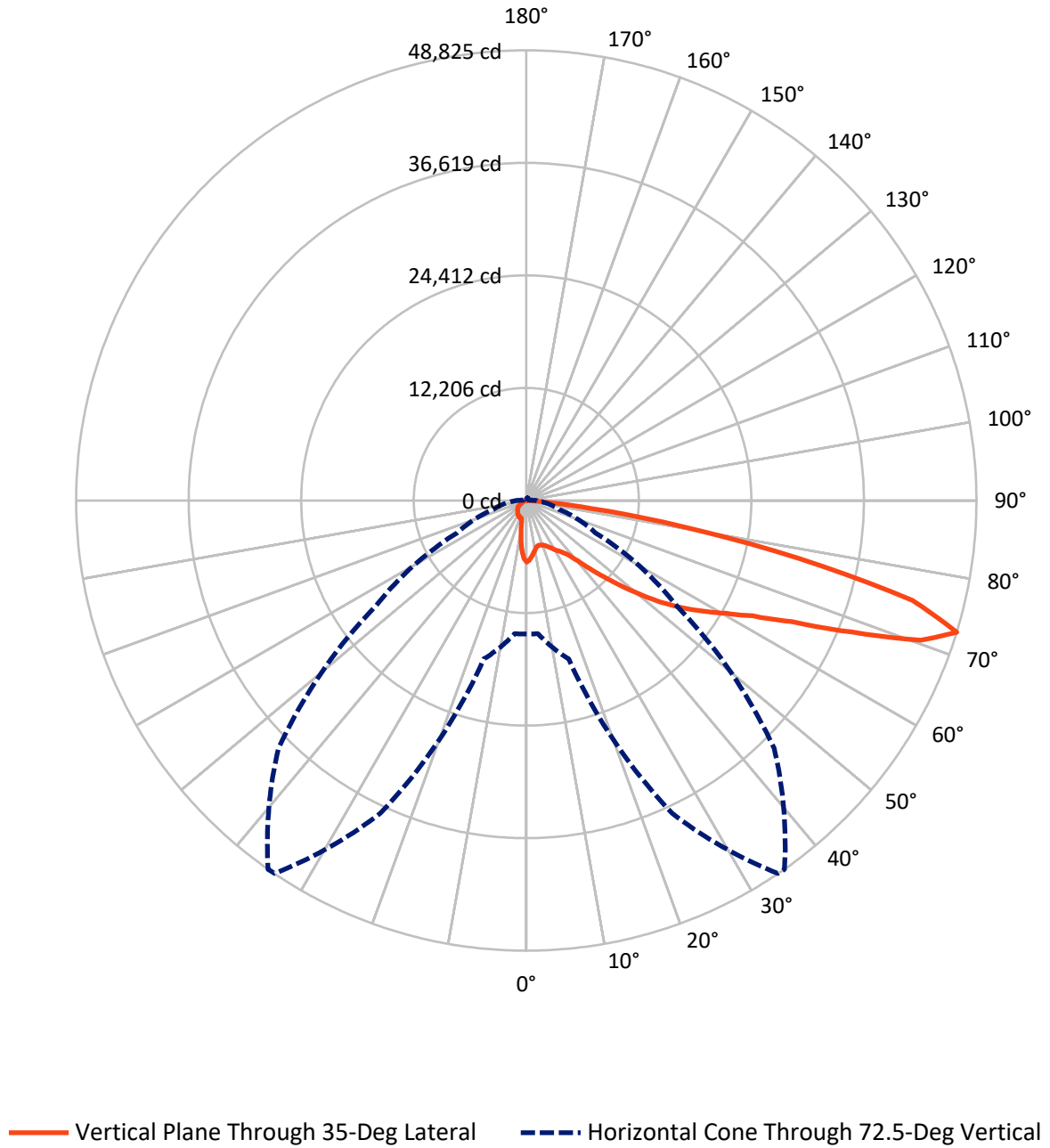
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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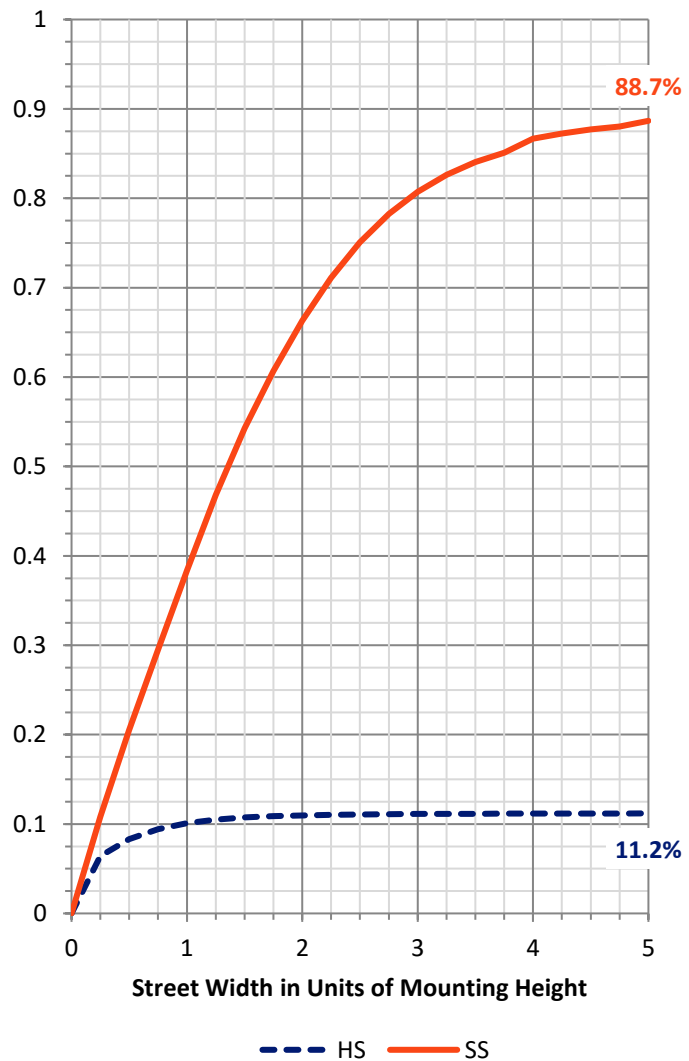
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5180.9	0.0	5180.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	40853.1	0.0	40853.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	46034.0	0.0	46034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.2	1.2
10°-20°	1282.6	2.8
20°-30°	2083.5	4.5
30°-40°	3476.3	7.6
40°-50°	6577.2	14.3
50°-60°	10451.2	22.7
60°-70°	12928.8	28.1
70°-80°	8036.7	17.5
80°-90°	649.5	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°	46034.0	100.0
0°-180°	46034.0	100.0

Coefficient of Utilization



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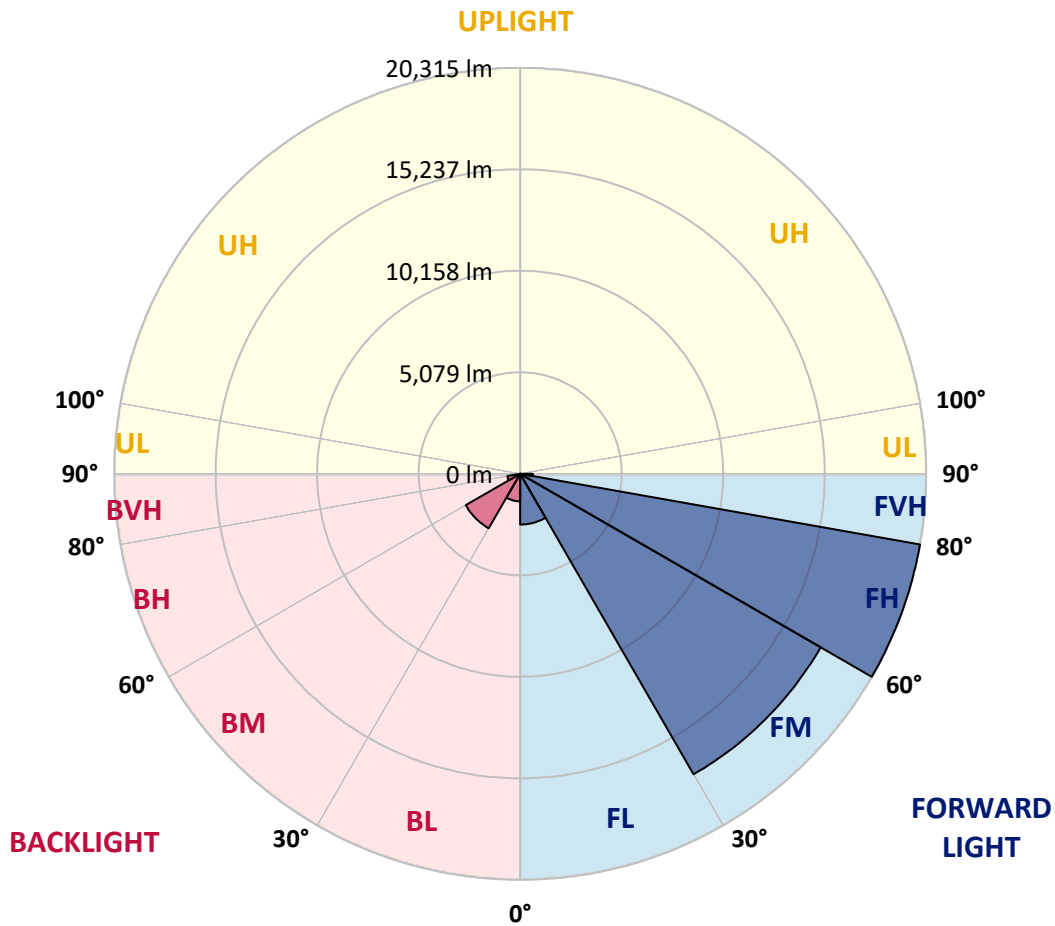
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2537.6	5.5			
FM (30°-60°)	17359.4	37.7			
FH (60°-80°)	20315.4	44.1			G5
FVH (80°-90°)	640.7	1.4			G4/750
BL (0°-30°)	1376.7	3.0	B3/2500		
BM (30°-60°)	3145.3	6.8	B3/5000		
BH (60°-80°)	650.1	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.8	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°	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9
2.5°	6375.0	6429.0	6439.1	6456.0	6456.0	6476.2	6510.0	6557.2	6634.8	6675.2	6702.2
5°	5875.8	5916.3	5966.9	6007.4	6085.0	6095.1	6226.6	6354.8	6533.6	6668.5	6762.9
7.5°	5373.3	5420.5	5487.9	5585.8	5686.9	5717.3	5916.3	6132.2	6415.5	6668.5	6827.0
10°	5019.1	5022.5	5083.2	5181.0	5342.9	5380.0	5622.9	5929.8	6284.0	6628.0	6887.7
12.5°	4820.1	4843.7	4870.7	4944.9	5100.0	5123.6	5383.4	5744.3	6152.4	6604.4	6958.6
15°	4820.1	4836.9	4853.8	4890.9	5015.7	5035.9	5265.3	5626.2	6085.0	6614.5	7073.3
17.5°	4870.7	4897.7	4884.2	4928.0	5059.6	5073.0	5275.4	5592.5	6081.6	6678.6	7248.7
20°	4992.1	5012.3	4985.4	5012.3	5143.9	5170.9	5380.0	5656.6	6138.9	6789.9	7467.9
22.5°	5184.4	5194.5	5130.4	5150.6	5285.6	5319.3	5562.1	5838.7	6277.2	6968.7	7761.4
25°	5427.2	5447.5	5349.6	5373.3	5501.4	5541.9	5821.9	6111.9	6496.5	7214.9	8135.8
27.5°	5707.2	5717.3	5633.0	5629.6	5794.9	5852.2	6135.6	6449.2	6789.9	7525.2	8608.0
30°	6027.6	6058.0	5977.0	5963.5	6172.7	6219.9	6499.8	6864.1	7221.7	7990.7	9279.2
32.5°	6280.6	6304.2	6257.0	6290.7	6503.2	6540.3	6941.7	7451.0	7899.7	8651.8	10193.3
35°	6644.9	6658.4	6550.4	6611.2	6854.0	6948.5	7545.5	8274.1	8753.0	9481.6	11387.4
37.5°	7963.7	7963.7	7505.0	7204.8	7437.5	7521.9	8371.9	9309.6	9805.4	10594.7	12891.8
40°	9788.6	9758.2	9087.0	8473.1	8442.7	8608.0	9549.1	10615.0	11164.8	11930.4	14585.0
42.5°	11734.8	11687.6	10773.5	10166.3	10065.1	10122.5	10908.4	12223.9	12783.8	13559.6	16406.5
45°	13461.8	13448.3	12611.8	11795.5	11613.4	11795.5	12605.0	14106.0	14507.4	15323.7	18224.5
47.5°	14908.8	14908.8	14298.3	13765.4	13670.9	13778.9	14902.1	16194.0	16156.9	17202.5	19995.4
50°	16575.1	16561.6	15981.5	15752.1	15849.9	16001.7	17546.5	18393.2	17863.6	19047.5	21577.3
52.5°	17742.2	17823.1	17624.1	17587.0	18086.2	18349.3	20231.5	20545.2	19391.6	20798.2	22761.3
55°	18666.4	18760.8	18990.2	19249.9	20211.2	20555.3	22832.1	22585.9	20670.0	22316.0	23442.6
57.5°	19975.1	19840.2	20194.4	20707.1	22262.1	22676.9	25351.8	24511.9	21698.8	23547.2	23516.8
60°	21563.8	21584.1	21644.8	22292.4	24309.5	24842.4	27834.3	26333.3	22359.9	24302.7	22693.8
62.5°	23473.0	23503.3	23628.1	24623.2	27058.5	27561.1	30478.8	27824.2	22663.4	24090.2	20568.8
65°	23341.4	23469.6	24862.7	28266.1	31237.7	31733.5	33565.1	28869.8	22204.7	22147.4	16747.1
67.5°	21263.6	21472.8	23803.5	32617.3	37538.5	38091.7	37295.7	29075.6	20224.7	17222.7	10925.3
70°	18538.2	18612.4	21415.4	36530.0	44834.4	45394.4	40635.0	26812.3	15347.3	9606.4	4894.3
72.5°	14477.1	14493.9	17782.7	37437.4	48794.4	48824.7	38014.1	19904.3	8253.8	3690.1	1700.0
75°	10341.7	10240.5	11910.2	30360.7	42928.7	43272.7	28498.8	9336.6	3153.8	1743.9	846.6
77.5°	5545.3	5656.6	6739.3	18005.3	29655.8	30242.7	15549.7	2691.7	1605.6	1187.3	559.9
80°	1713.5	1807.9	2762.5	8243.7	16797.7	17151.9	5764.5	1197.4	1119.8	846.6	367.7
82.5°	539.7	559.9	1288.5	3464.1	6972.1	7134.0	1669.7	678.0	765.7	559.9	215.9
85°	155.2	158.5	573.4	1291.9	1723.6	1757.4	468.9	263.1	438.5	347.4	111.3
87.5°	16.9	54.0	215.9	215.9	151.8	148.4	50.6	57.3	124.8	43.8	20.2
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°	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9	6671.9
2.5°	6685.4	6688.7	6644.9	6570.7	6489.7	6422.3	6337.9	6270.5	6223.3	6209.8	6233.4
5°	6732.6	6709.0	6584.2	6358.2	6088.3	5855.6	5595.9	5390.1	5255.2	5197.9	5218.1
7.5°	6803.4	6736.0	6462.7	6017.5	5501.4	5042.7	4577.2	4216.3	3986.9	3872.2	3889.1
10°	6864.1	6729.2	6260.4	5525.0	4735.7	4040.9	3413.5	2978.4	2735.5	2620.9	2624.2
12.5°	6921.5	6725.8	5997.3	4941.5	3872.2	3022.2	2438.7	2222.8	2155.4	2131.8	2125.0
15°	7029.4	6736.0	5666.7	4273.6	3012.1	2283.5	2071.0	2067.7	2081.2	2074.4	2071.0
17.5°	7177.8	6746.1	5292.3	3565.3	2324.0	2013.7	2003.6	2033.9	2054.2	2044.1	2040.7
20°	7370.1	6786.6	4894.3	2863.7	1996.8	1946.2	1969.9	1996.8	2013.7	1996.8	1993.5
22.5°	7639.9	6857.4	4459.2	2300.4	1892.3	1905.8	1926.0	1956.4	1973.2	1949.6	1946.2
25°	7970.5	6968.7	4030.8	2000.2	1841.7	1858.5	1888.9	1922.6	1942.9	1919.3	1915.9
27.5°	8398.9	7147.5	3636.1	1932.8	1791.1	1801.2	1845.1	1895.6	1922.6	1892.3	1892.3
30°	9019.5	7440.9	3295.5	1963.1	1760.7	1737.1	1797.8	1868.7	1899.0	1872.0	1868.7
32.5°	9842.5	7855.8	3086.3	2010.3	1747.2	1662.9	1720.2	1811.3	1861.9	1845.1	1845.1
35°	10921.9	8486.6	3005.4	2064.3	1737.1	1585.3	1625.8	1723.6	1811.3	1828.2	1828.2
37.5°	12230.6	9363.6	3029.0	2087.9	1706.8	1521.2	1541.5	1625.8	1740.5	1794.5	1807.9
40°	13718.1	10385.6	3163.9	2064.3	1673.0	1467.3	1470.6	1534.7	1635.9	1716.9	1743.9
42.5°	15252.9	11579.6	3413.5	1976.6	1642.7	1420.0	1409.9	1453.8	1521.2	1578.6	1602.2
45°	16713.4	12807.4	3659.7	1855.2	1605.6	1372.8	1349.2	1366.1	1379.6	1403.2	1416.7
47.5°	17988.4	13670.9	3588.9	1743.9	1555.0	1318.9	1278.4	1271.6	1231.2	1227.8	1224.4
50°	18868.8	13859.8	3187.5	1632.6	1480.8	1258.1	1194.1	1153.6	1082.7	1049.0	1052.4
52.5°	19148.7	13114.4	2604.0	1521.2	1359.3	1177.2	1086.1	1022.0	934.3	904.0	900.6
55°	18777.7	11653.8	2081.2	1386.3	1190.7	1069.3	968.1	883.7	812.9	775.8	775.8
57.5°	17870.4	9795.3	1646.0	1227.8	1011.9	947.8	846.6	762.3	701.6	664.5	657.7
60°	16366.0	7778.2	1302.0	1038.9	863.5	816.3	711.7	657.7	603.8	559.9	549.8
62.5°	14082.4	5552.0	1022.0	823.0	721.8	667.9	607.1	566.7	502.6	441.9	431.7
65°	10989.4	3396.6	789.3	603.8	580.2	553.2	516.1	479.0	401.4	340.7	330.6
67.5°	6931.6	1608.9	563.3	455.4	458.7	445.2	428.4	398.0	340.7	286.7	280.0
70°	3052.6	779.2	371.0	347.4	340.7	340.7	354.2	344.0	290.1	239.5	229.4
72.5°	1038.9	418.3	276.6	263.1	246.2	242.9	296.8	286.7	232.7	185.5	175.4
75°	543.1	280.0	202.4	188.9	148.4	178.8	236.1	222.6	165.3	121.4	111.3
77.5°	354.2	199.0	138.3	121.4	84.3	118.1	175.4	155.2	97.8	60.7	54.0
80°	222.6	131.5	81.0	57.3	40.5	64.1	94.4	67.5	37.1	13.5	10.1
82.5°	118.1	67.5	30.4	20.2	16.9	20.2	23.6	16.9	6.7	0.0	0.0
85°	47.2	23.6	10.1	6.7	3.4	0.0	6.7	3.4	0.0	0.0	0.0
87.5°	16.9	3.4	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)