

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: P885286

Luminaire Tested: **NAV-SB6C-730-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-730-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

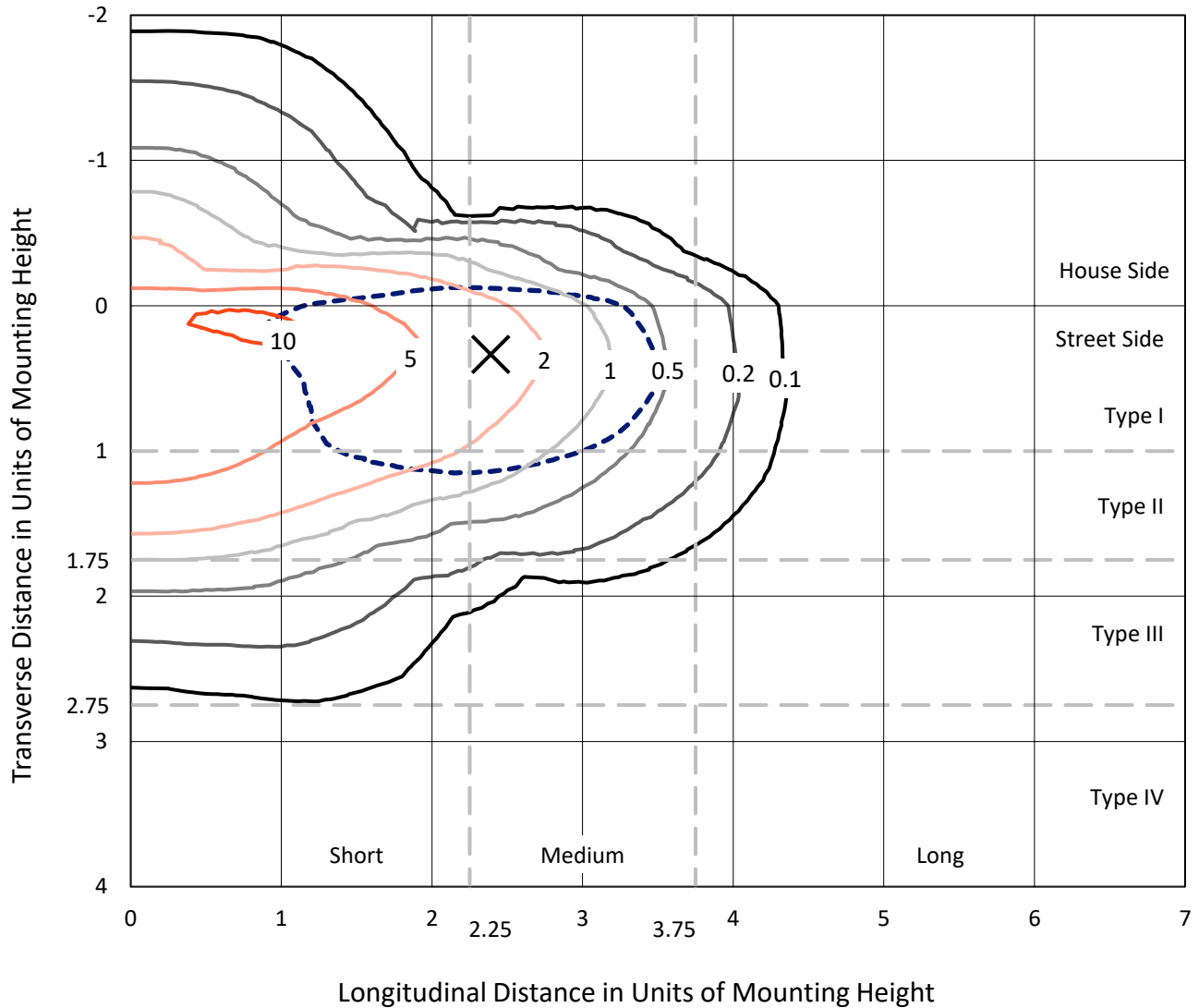
Lumens per Lamp: N/A  
Luminaire Lumens: 32675 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

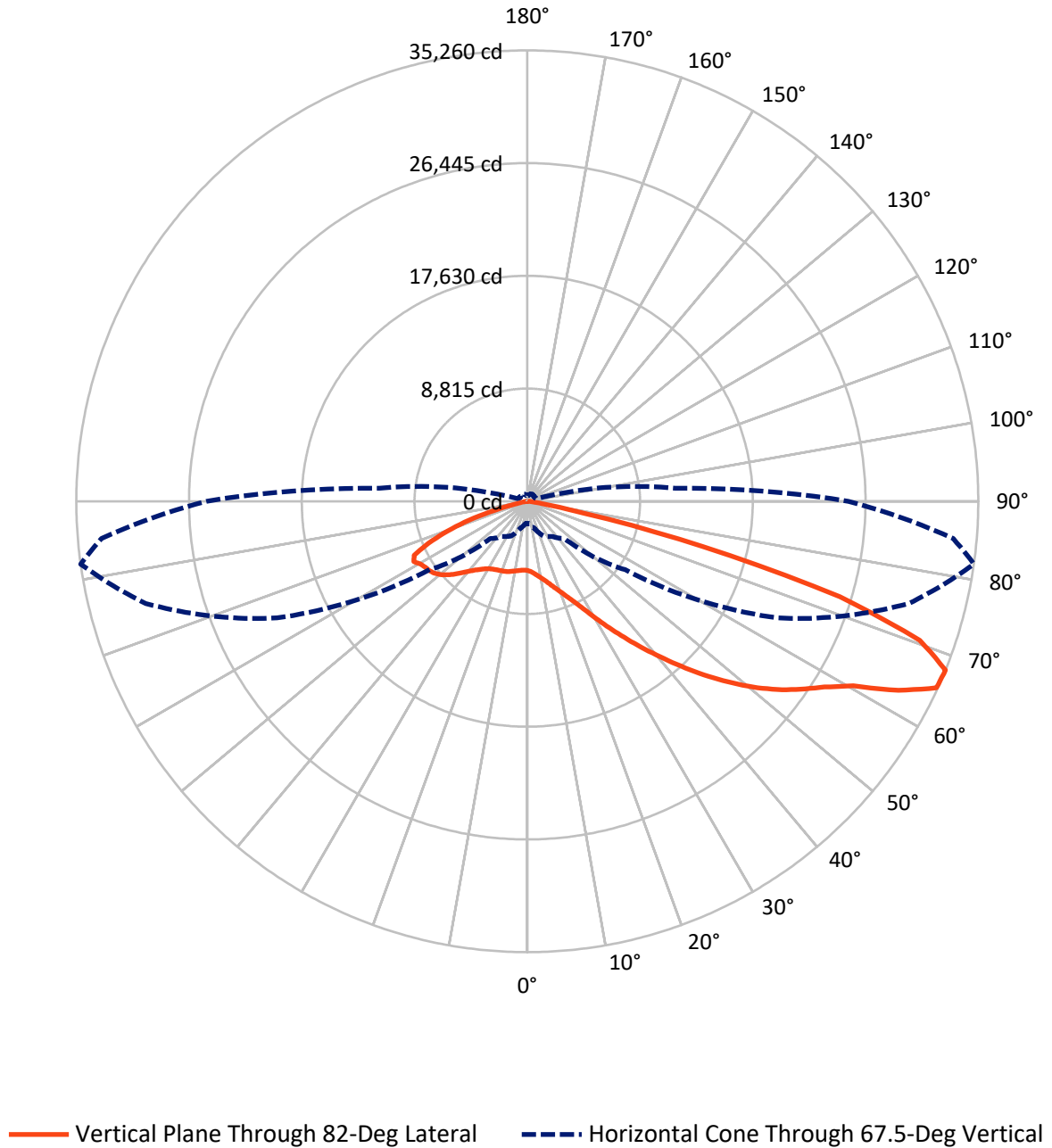
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P885286  
CATALOG NUMBER: NAV-SB6C-730-U-T2-HSS

### Luminous Intensity Polar Plot



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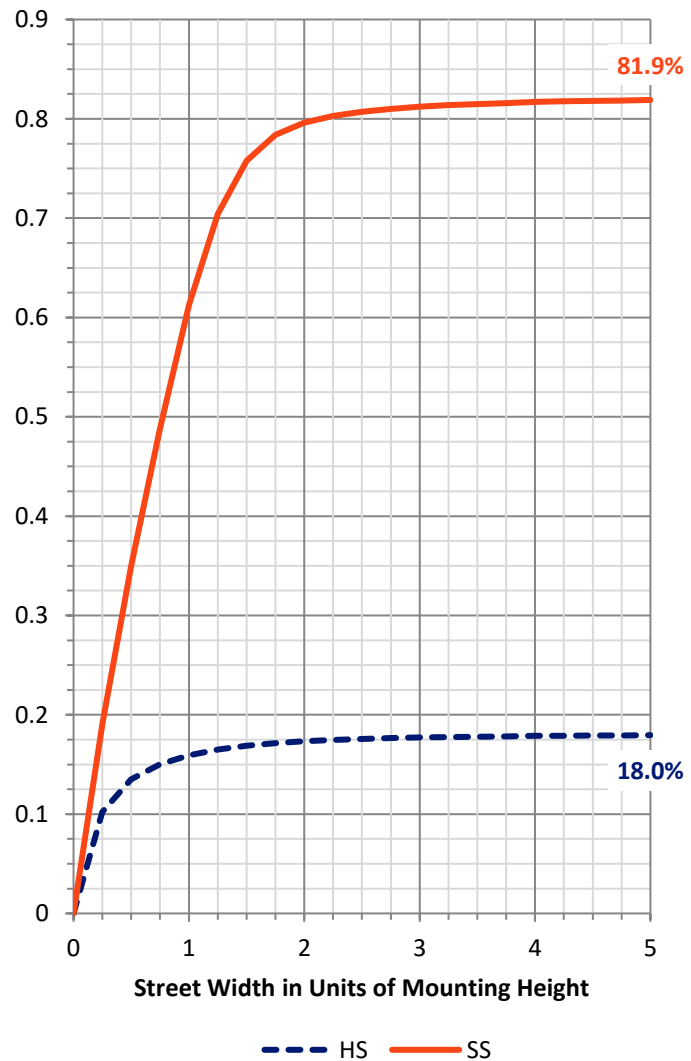
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5918.8	0.0	5918.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	26756.2	0.0	26756.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	32675.0	0.0	32675.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.3	1.5
10°-20°	1253.2	3.8
20°-30°	2007.3	6.1
30°-40°	3549.5	10.9
40°-50°	6219.0	19.0
50°-60°	8294.4	25.4
60°-70°	7721.7	23.6
70°-80°	2963.6	9.1
80°-90°	184.1	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°	32675.0	100.0
0°-180°	32675.0	100.0



REPORT NUMBER: P885286

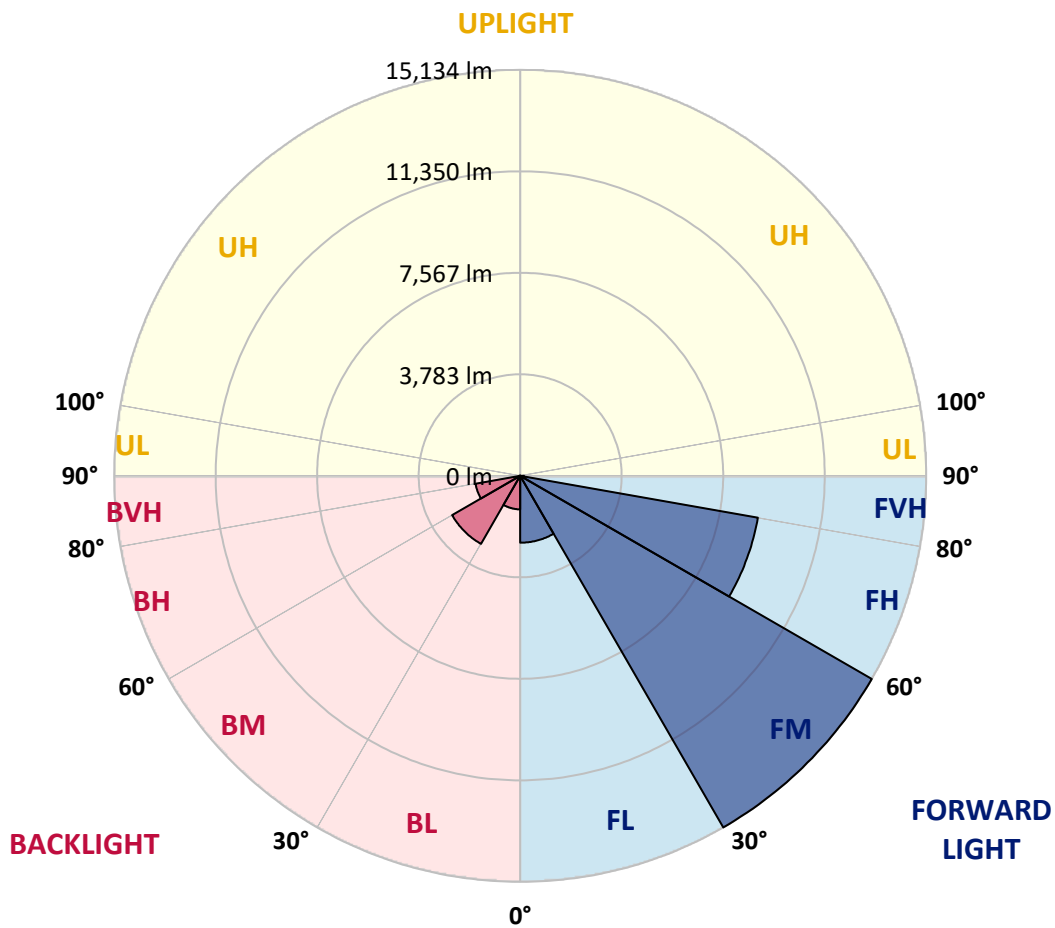
CATALOG NUMBER: NAV-SB6C-730-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2492.7	7.6			
FM (30°-60°)	15133.7	46.3			
FH (60°-80°)	8995.9	27.5			G4/12000
FVH (80°-90°)	133.8	0.4			G2/225
BL (0°-30°)	1250.0	3.8	B3/2500		
BM (30°-60°)	2929.2	9.0	B3/5000		
BH (60°-80°)	1689.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	50.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



REPORT NUMBER: P885286  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1
2.5°	5721.3	5754.3	5735.4	5726.0	5709.6	5686.0	5667.2	5608.4	5547.2	5507.2	5493.1
5°	5836.6	5869.5	5867.2	5876.6	5888.4	5895.4	5890.7	5824.8	5737.8	5669.6	5629.6
7.5°	5737.8	5775.4	5806.0	5853.1	5935.4	6022.4	6064.8	6050.7	5961.3	5867.2	5817.8
10°	5457.8	5497.8	5570.8	5681.3	5855.4	6043.6	6201.2	6274.2	6217.7	6114.2	6046.0
12.5°	4945.0	4985.0	5128.5	5368.4	5660.2	5987.2	6288.3	6483.5	6497.7	6394.1	6314.2
15°	4368.6	4408.6	4561.5	4862.7	5307.3	5831.9	6335.3	6704.7	6829.4	6740.0	6643.5
17.5°	4011.0	4046.3	4161.6	4403.9	4867.4	5521.4	6318.9	6939.9	7224.6	7154.0	7038.7
20°	3902.8	3933.4	3987.5	4156.9	4542.7	5199.1	6210.6	7161.1	7650.4	7610.4	7481.0
22.5°	4018.1	4046.3	4062.8	4138.1	4380.4	4987.3	6074.2	7386.9	8144.4	8149.1	7991.5
25°	4283.9	4312.2	4293.3	4340.4	4446.3	4921.5	6022.4	7652.7	8765.5	8817.2	8638.4
27.5°	4721.5	4723.9	4679.2	4676.8	4693.3	5020.3	6076.6	7937.4	9548.9	9645.3	9424.2
30°	5599.0	5563.7	5392.0	5206.1	5121.4	5316.7	6227.1	8273.8	10473.4	10645.1	10367.5
32.5°	6951.7	6899.9	6584.7	6140.1	5693.1	5794.2	6497.7	8657.3	11480.3	11790.8	11452.1
35°	8419.7	8405.5	8076.2	7415.1	6634.1	6474.1	6937.6	9160.7	12578.9	13072.9	12670.7
37.5°	9784.1	9777.1	9588.9	8810.2	7859.8	7422.2	7643.3	9819.4	13755.2	14470.3	13995.1
40°	11031.0	11052.1	10863.9	10167.6	9210.1	8638.4	8603.2	10633.4	15063.2	15992.4	15427.8
42.5°	12108.4	12131.9	11941.4	11426.2	10544.0	9984.1	9781.8	11630.8	16340.6	17627.4	16959.3
45°	12840.0	12985.9	12957.7	12546.0	11913.1	11332.1	11198.0	12882.4	17796.8	19361.2	18577.8
47.5°	13047.1	13181.2	13392.9	13449.3	13063.5	12491.9	12651.8	14390.3	19269.5	21097.4	20205.8
50°	12536.6	12661.2	13101.2	13686.9	13955.1	13778.7	14065.7	16006.5	20777.4	22828.8	21803.1
52.5°	11529.7	11656.7	12211.9	13138.8	14232.7	14787.9	15484.3	17599.2	22238.3	24468.5	23315.8
55°	10073.5	10207.6	10920.4	11969.6	13703.4	15204.3	16667.6	19189.5	23576.9	25943.6	24680.3
57.5°	8092.7	8191.5	8932.5	10400.5	12371.9	14790.3	17540.4	20925.6	24837.9	27392.7	26033.0
60°	5274.3	5361.4	6222.4	7859.8	10165.2	13407.0	17714.5	22861.8	26512.9	29277.1	27856.2
62.5°	3507.6	3566.4	4076.9	5279.0	7158.7	10751.0	16695.8	24407.4	28968.9	32556.5	30982.6
65°	2406.6	2465.4	2975.9	3813.4	4625.0	7111.7	13766.9	24202.7	31194.4	35160.7	33299.9
67.5°	1717.3	1766.7	2199.6	2990.0	3347.6	4131.0	9332.4	21586.7	30874.4	35259.5	33424.6
70°	1230.4	1258.6	1616.2	2329.0	2660.7	2481.9	5189.7	16510.0	27032.8	32558.8	30879.1
72.5°	861.0	870.4	1122.2	1773.8	2143.1	1811.4	2470.1	11007.4	20445.7	25555.4	23939.2
75°	583.4	595.2	755.2	1300.9	1719.7	1383.3	1308.0	5902.5	12002.5	14145.7	12680.1
77.5°	357.6	362.3	487.0	889.3	1286.8	1053.9	842.2	2500.7	4643.9	4559.2	3886.4
80°	202.3	202.3	310.5	552.8	877.5	679.9	590.5	1063.3	1470.3	1291.5	1138.6
82.5°	112.9	115.3	225.8	343.5	581.1	402.3	324.6	491.7	635.2	562.3	489.3
85°	47.1	51.8	138.8	162.3	277.6	200.0	131.7	207.0	235.3	209.4	152.9
87.5°	4.7	7.1	42.3	30.6	32.9	40.0	18.8	40.0	32.9	32.9	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885286  
 CATALOG NUMBER: NAV-SB6C-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1	5413.1
2.5°	5448.4	5413.1	5323.7	5220.2	5083.8	5017.9	4928.5	4867.4	4815.6	4820.3	4773.3
5°	5554.3	5464.9	5264.9	5015.6	4705.0	4483.9	4248.6	4086.3	3954.6	3926.4	3862.8
7.5°	5700.1	5559.0	5208.5	4759.1	4234.5	3837.0	3481.7	3253.5	3091.2	3039.5	2987.7
10°	5888.4	5683.7	5135.5	4436.8	3681.7	3175.9	2794.8	2616.0	2505.4	2467.8	2439.6
12.5°	6107.1	5827.2	5039.1	4044.0	3112.4	2625.4	2383.1	2293.7	2258.4	2246.7	2239.6
15°	6382.4	6006.0	4893.2	3578.2	2630.1	2289.0	2185.5	2173.7	2178.4	2173.7	2171.4
17.5°	6709.4	6201.2	4655.6	3098.3	2305.5	2117.3	2079.6	2089.0	2100.8	2098.4	2093.7
20°	7067.0	6394.1	4352.2	2672.5	2084.3	1994.9	1973.8	1983.2	1992.6	1987.9	1985.5
22.5°	7473.9	6601.2	4015.7	2340.8	1936.1	1882.0	1858.5	1860.8	1860.8	1851.4	1846.7
25°	7960.9	6829.4	3662.9	2105.5	1823.2	1780.9	1752.6	1743.2	1729.1	1700.9	1696.2
27.5°	8542.0	7071.7	3324.1	1940.8	1733.8	1693.8	1660.9	1637.4	1602.1	1555.0	1550.3
30°	9196.0	7365.7	3037.1	1837.3	1663.2	1623.2	1585.6	1550.3	1498.6	1439.7	1435.0
32.5°	9965.3	7681.0	2827.7	1769.1	1599.7	1557.4	1512.7	1470.3	1413.9	1355.0	1357.4
35°	10882.7	8062.1	2705.4	1722.0	1550.3	1493.8	1444.4	1397.4	1355.0	1303.3	1298.6
37.5°	11877.9	8466.7	2667.8	1698.5	1517.4	1430.3	1373.9	1340.9	1336.2	1305.6	1303.3
40°	12967.1	8946.6	2696.0	1684.4	1482.1	1369.2	1308.0	1300.9	1312.7	1258.6	1260.9
42.5°	14119.8	9515.9	2743.0	1667.9	1432.7	1308.0	1249.2	1249.2	1239.8	1164.5	1164.5
45°	15366.6	10172.3	2790.1	1627.9	1373.9	1246.8	1202.1	1185.7	1145.7	1072.7	1070.4
47.5°	16622.9	10840.4	2825.4	1555.0	1303.3	1195.1	1155.1	1117.4	1058.6	992.8	990.4
50°	17815.6	11440.3	2787.7	1446.8	1223.3	1145.7	1103.3	1051.6	988.1	943.4	936.3
52.5°	18881.3	11960.2	2627.8	1319.8	1138.6	1093.9	1056.3	1002.2	950.4	903.4	898.7
55°	19808.2	12381.3	2345.5	1199.8	1063.3	1049.2	1011.6	943.4	872.8	832.8	828.1
57.5°	20697.4	12701.2	1992.6	1101.0	995.1	999.8	943.4	882.2	816.3	774.0	769.3
60°	21880.8	13129.4	1635.0	1009.2	922.2	936.3	875.1	830.4	748.1	694.0	686.9
62.5°	23772.2	13795.2	1298.6	896.3	837.5	842.2	816.3	762.2	663.4	599.9	595.2
65°	25273.1	13550.5	1023.3	774.0	741.0	748.1	748.1	689.3	583.4	510.5	503.4
67.5°	25103.7	11602.6	816.3	654.0	649.3	654.0	670.5	621.1	517.6	458.7	449.3
70°	23125.2	9228.9	654.0	543.4	564.6	552.8	599.9	567.0	465.8	407.0	399.9
72.5°	18869.5	6648.2	498.7	449.3	432.9	451.7	541.1	510.5	388.2	322.3	315.2
75°	11026.2	3547.6	371.7	355.2	312.9	376.4	479.9	435.2	296.4	237.6	230.5
77.5°	3589.9	1237.4	272.9	261.1	232.9	303.5	409.3	367.0	242.3	188.2	181.1
80°	962.2	374.1	185.8	171.7	150.6	225.8	324.6	291.7	174.1	122.3	120.0
82.5°	385.8	157.6	108.2	96.5	82.3	155.3	256.4	235.3	129.4	77.6	77.6
85°	124.7	51.8	40.0	30.6	37.6	96.5	152.9	160.0	91.7	40.0	30.6
87.5°	16.5	7.1	7.1	9.4	7.1	16.5	47.1	44.7	25.9	4.7	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)