

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: STREETWORKS

Report Number: P323499

Luminaire Tested: **GAN-SA5D-730-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5D-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30171 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

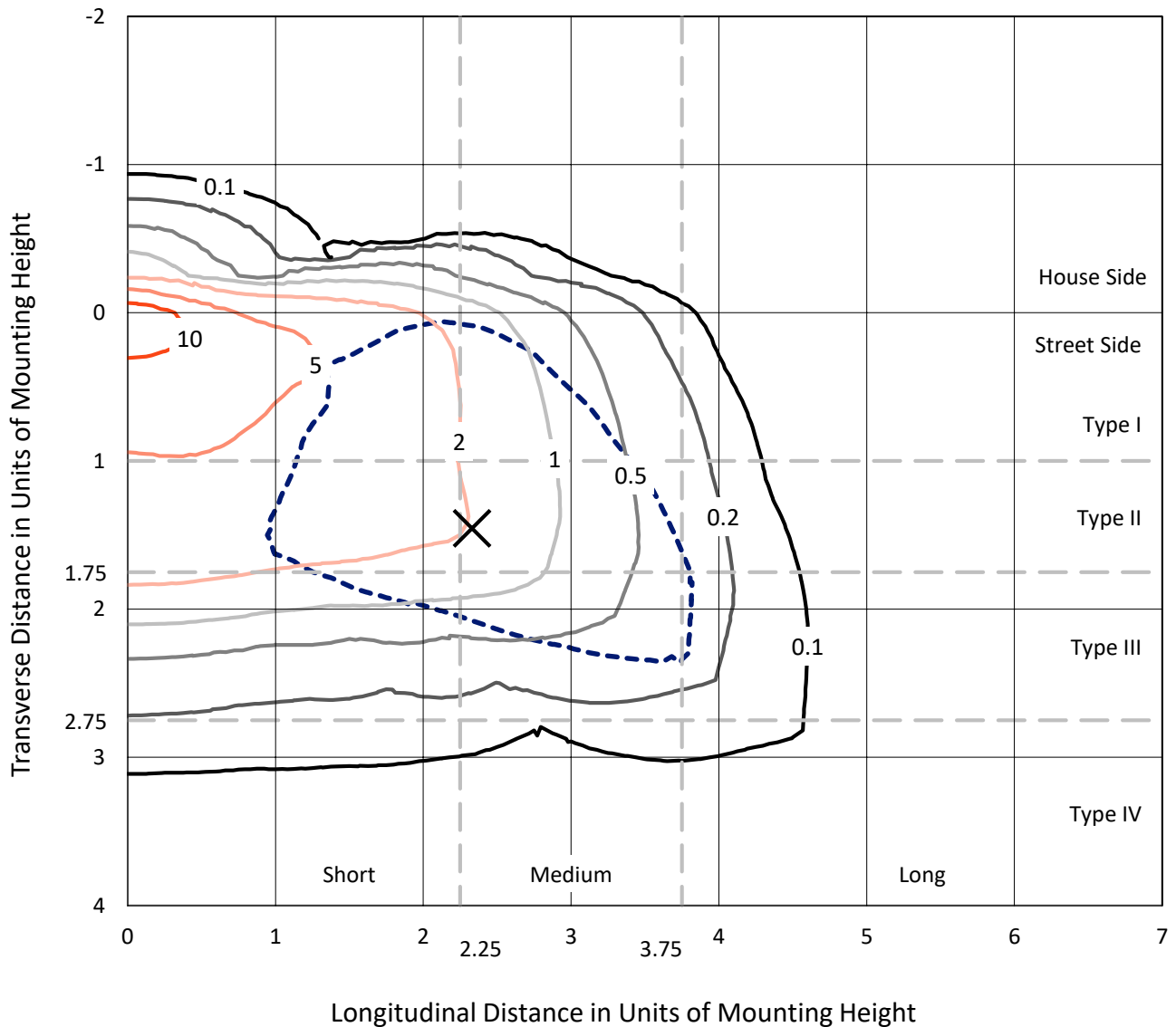
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323499  
 CATALOG NUMBER: GAN-SA5D-730-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

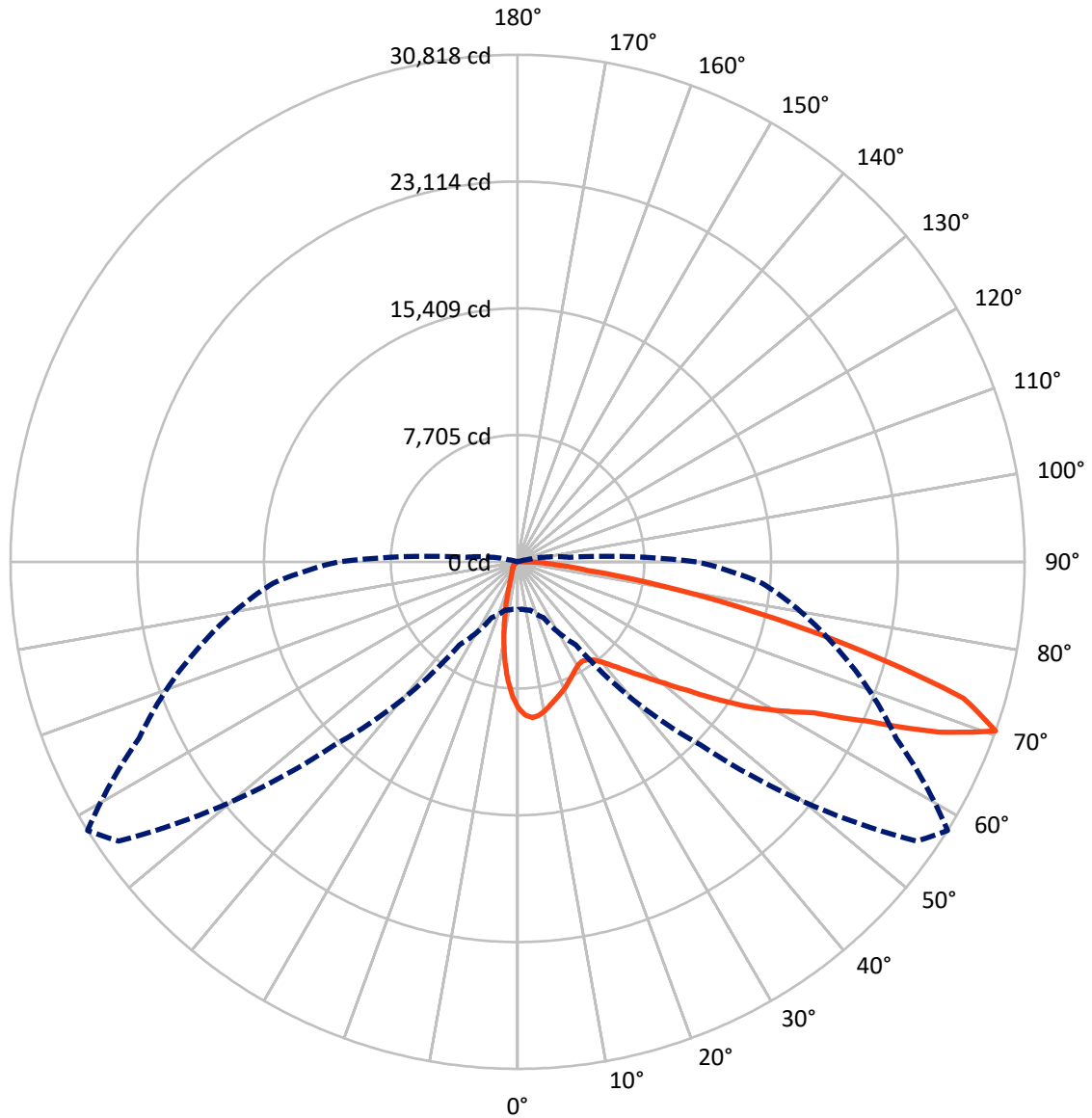
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P323499  
CATALOG NUMBER: GAN-SA5D-730-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P323499  
 CATALOG NUMBER: GAN-SA5D-730-U-SL3-HSS

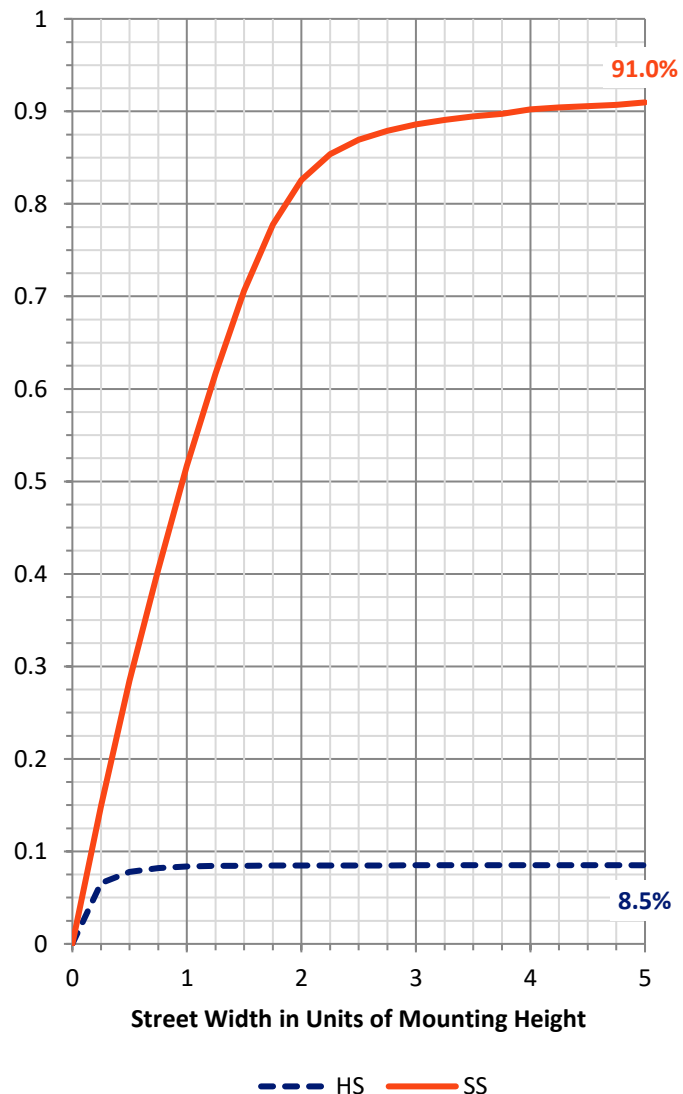
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2582.0	0.0	2582.0
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	27589.0	0.0	27589.0
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	30171.0	0.0	30171.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	728.8	2.4
10°-20°	1529.6	5.1
20°-30°	2010.9	6.7
30°-40°	2663.2	8.8
40°-50°	3980.6	13.2
50°-60°	6376.8	21.1
60°-70°	8037.9	26.6
70°-80°	4335.6	14.4
80°-90°	507.5	1.7
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°	30171.0	100.0
0°-180°	30171.0	100.0

**Coefficient of Utilization**

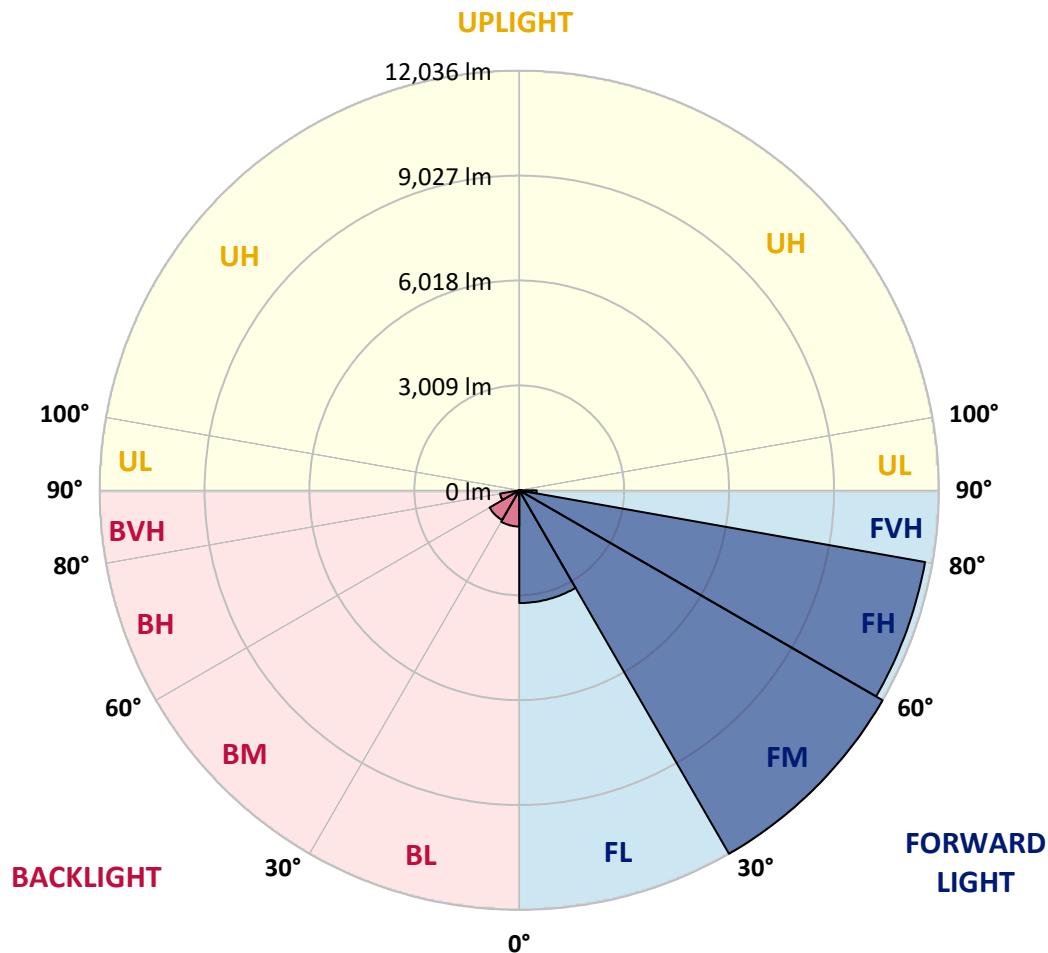


REPORT NUMBER: P323499  
 CATALOG NUMBER: GAN-SA5D-730-U-SL3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3231.9	10.7			
FM (30°-60°)	12035.7	39.9			
FH (60°-80°)	11818.3	39.2			G4/12000
FVH (80°-90°)	503.1	1.7			G4/750
BL (0°-30°)	1037.3	3.4	B3/2500		
BM (30°-60°)	985.0	3.3	B1/1000		
BH (60°-80°)	555.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.4	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-G4**  
 Type III Medium





REPORT NUMBER: P323499  
 CATALOG NUMBER: GAN-SA5D-730-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4
2.5°	9651.3	9627.5	9618.7	9603.6	9545.9	9489.5	9377.8	9346.4	9276.2	9109.3	8932.4
5°	9658.8	9657.6	9683.9	9677.7	9657.6	9631.2	9550.9	9509.5	9390.4	9152.0	8828.3
7.5°	9193.4	9217.2	9276.2	9323.9	9379.1	9450.6	9460.6	9420.5	9322.6	9065.4	8636.4
10°	8568.6	8606.3	8689.1	8783.2	8927.4	9070.4	9198.4	9193.4	9159.5	8906.1	8405.5
12.5°	7942.6	7986.5	8081.9	8221.1	8425.6	8659.0	8887.3	8918.6	8975.1	8763.1	8192.3
15°	7394.4	7432.0	7526.1	7696.7	7950.1	8263.8	8598.7	8656.4	8802.0	8651.4	8014.1
17.5°	6928.9	6952.8	7021.8	7211.2	7504.8	7884.9	8320.2	8433.1	8650.2	8563.6	7859.8
20°	6604.0	6607.7	6652.9	6785.9	7079.5	7504.8	8031.7	8193.5	8489.6	8488.3	7700.5
22.5°	6443.4	6430.9	6439.6	6516.2	6732.0	7142.2	7743.1	7935.1	8345.3	8424.3	7538.6
25°	6413.3	6403.3	6378.2	6388.2	6518.7	6824.8	7452.1	7674.1	8218.6	8385.5	7398.1
27.5°	6507.4	6517.4	6474.8	6429.6	6439.6	6619.0	7193.6	7450.8	8115.7	8385.5	7299.0
30°	6696.8	6701.8	6670.5	6611.5	6532.5	6561.3	7014.2	7271.4	8064.3	8443.2	7236.3
32.5°	6906.3	6933.9	6930.2	6882.5	6769.6	6652.9	6971.6	7206.2	8060.5	8571.1	7230.0
35°	7166.0	7197.4	7250.1	7240.0	7122.1	6930.2	7117.1	7301.5	8134.5	8781.9	7297.8
37.5°	7442.0	7489.7	7602.6	7656.6	7580.0	7363.0	7443.3	7575.0	8332.8	9123.1	7469.6
40°	7709.3	7763.2	7968.9	8181.0	8123.3	7899.9	7937.6	8043.0	8685.3	9613.7	7795.8
42.5°	7971.5	8051.7	8354.1	8702.9	8771.9	8593.7	8613.8	8697.8	9208.4	10288.6	8329.0
45°	8285.1	8375.4	8823.3	9253.6	9438.0	9360.2	9445.6	9500.8	9892.2	11180.6	9047.9
47.5°	8745.5	8849.6	9399.1	9889.7	10213.3	10263.5	10435.4	10471.8	10756.6	12219.4	9985.0
50°	9643.8	9672.6	10169.4	10614.8	11081.5	11382.6	11578.3	11605.9	11802.9	13354.8	11155.5
52.5°	10774.1	10793.0	11074.0	11372.6	11903.2	12518.0	12975.9	13014.8	13056.2	14461.3	12311.0
55°	11897.0	11894.5	12080.1	12255.8	12863.0	13756.2	14749.8	14773.7	14476.3	15511.3	13194.2
57.5°	12598.3	12666.0	12948.3	13174.1	14022.2	15167.6	16546.3	16634.2	15968.0	16289.2	14067.3
60°	12374.9	12407.6	13033.6	13869.1	15466.2	17173.6	18364.2	18386.8	17089.6	17065.7	15171.4
62.5°	10543.3	10560.9	11544.4	13266.9	16197.6	19775.6	20557.2	20189.6	18379.3	18143.4	16492.4
65°	7226.2	7340.4	8162.1	10291.1	14854.0	21407.8	23952.0	23343.5	20345.1	19696.5	17686.7
67.5°	4255.5	4231.6	4638.1	6206.3	10909.6	20323.8	28246.3	27641.6	23026.1	20736.6	17336.7
70°	2906.8	2890.5	3046.1	3757.4	6158.6	15766.0	29597.5	30818.2	25393.5	20036.5	14920.4
72.5°	2075.0	2083.8	2313.4	2919.4	3866.5	9185.9	25452.4	28341.7	24652.0	17467.2	11341.2
75°	1408.9	1432.7	1761.4	2394.9	3389.8	4673.2	18061.9	21544.5	20074.2	12694.9	6518.7
77.5°	757.8	784.1	1171.8	1929.5	3064.9	3246.8	11618.4	14827.6	12609.5	5707.0	1889.4
80°	316.1	331.2	548.2	1402.6	2648.4	2851.6	6836.1	8991.4	5373.3	1125.3	421.5
82.5°	136.7	144.3	228.3	836.8	1979.7	2407.5	3619.4	4325.7	1628.4	247.1	212.0
85°	26.3	27.6	94.1	442.9	1263.3	1358.7	2346.0	2299.6	731.4	106.6	154.3
87.5°	0.0	0.0	22.6	139.3	371.3	740.2	1431.4	1413.9	248.4	51.4	57.7
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: P323499

CATALOG NUMBER: GAN-SA5D-730-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4	8912.4
2.5°	8842.1	8755.6	8573.6	8349.1	8177.2	7987.8	7837.2	7646.5	7563.7	7567.5	7522.3
5°	8643.9	8465.7	8063.0	7554.9	7163.5	6759.6	6412.0	6065.8	5861.3	5794.8	5732.1
7.5°	8360.4	8078.1	7435.8	6652.9	5990.5	5343.2	4779.9	4284.3	3970.7	3817.6	3761.2
10°	8040.5	7644.0	6714.4	5683.1	4737.2	3861.5	3131.4	2496.6	2243.1	2071.3	2027.4
12.5°	7759.4	7222.5	6009.3	4688.3	3565.5	2509.1	1812.8	1417.6	1245.8	1178.0	1166.7
15°	7494.7	6828.6	5330.6	3787.5	2469.0	1544.4	1152.9	1018.7	978.6	967.3	967.3
17.5°	7245.1	6453.4	4667.0	2900.5	1633.4	1082.7	954.7	924.6	912.1	910.8	912.1
20°	6984.1	6078.3	4014.6	2125.2	1140.4	917.1	882.0	865.6	861.9	861.9	861.9
22.5°	6734.5	5703.2	3379.8	1518.0	914.6	836.8	819.2	807.9	804.2	802.9	800.4
25°	6494.8	5346.9	2760.0	1072.6	802.9	766.5	751.5	736.4	725.1	718.9	715.1
27.5°	6297.9	5029.5	2182.9	860.6	725.1	693.8	675.0	652.4	624.8	612.2	607.2
30°	6141.1	4739.7	1682.4	726.4	652.4	621.0	592.2	553.3	513.1	491.8	490.5
32.5°	6018.1	4454.9	1277.1	642.3	587.1	548.2	506.8	457.9	411.5	387.7	386.4
35°	5957.9	4204.0	976.0	580.9	529.4	480.5	429.1	375.1	329.9	307.4	304.9
37.5°	5998.0	3992.0	761.5	529.4	480.5	424.0	363.8	307.4	267.2	247.1	245.9
40°	6144.8	3856.5	618.5	485.5	439.1	370.1	304.9	252.2	218.3	202.0	200.7
42.5°	6457.2	3806.3	528.2	449.1	398.9	319.9	253.4	208.3	176.9	165.6	163.1
45°	6979.1	3880.3	466.7	414.0	357.5	272.2	209.5	170.6	143.0	134.2	133.0
47.5°	7674.1	4074.8	422.8	380.1	319.9	229.6	174.4	138.0	116.7	107.9	106.6
50°	8569.9	4383.4	386.4	346.3	284.8	194.5	144.3	109.1	90.3	84.1	84.1
52.5°	9544.7	4751.0	353.8	314.9	249.7	161.8	116.7	84.1	71.5	64.0	64.0
55°	10350.1	5072.2	318.7	291.1	207.0	134.2	89.1	64.0	52.7	48.9	48.9
57.5°	11154.3	5414.7	278.5	249.7	165.6	109.1	67.7	47.7	38.9	36.4	36.4
60°	12196.8	5833.7	239.6	203.2	130.5	82.8	50.2	33.9	28.9	27.6	27.6
62.5°	13343.5	6079.6	204.5	163.1	101.6	61.5	36.4	22.6	21.3	21.3	20.1
65°	14044.8	5732.1	171.9	130.5	79.0	46.4	23.8	16.3	18.8	17.6	15.1
67.5°	13150.3	4487.5	140.5	101.6	61.5	35.1	15.1	11.3	20.1	16.3	12.5
70°	10888.3	3141.4	109.1	71.5	48.9	30.1	10.0	7.5	21.3	16.3	10.0
72.5°	8148.3	2102.6	86.6	47.7	36.4	26.3	8.8	3.8	18.8	13.8	8.8
75°	4452.4	846.8	69.0	30.1	22.6	18.8	6.3	2.5	12.5	10.0	6.3
77.5°	1171.8	223.3	50.2	20.1	12.5	7.5	3.8	1.3	6.3	5.0	2.5
80°	298.6	86.6	32.6	13.8	8.8	3.8	0.0	0.0	1.3	0.0	0.0
82.5°	159.3	36.4	20.1	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	120.4	23.8	11.3	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.4	7.5	3.8	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	0.0

(END OF REPORT)