

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: P322856

Luminaire Tested: **GAN-SA2D-730-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10479 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

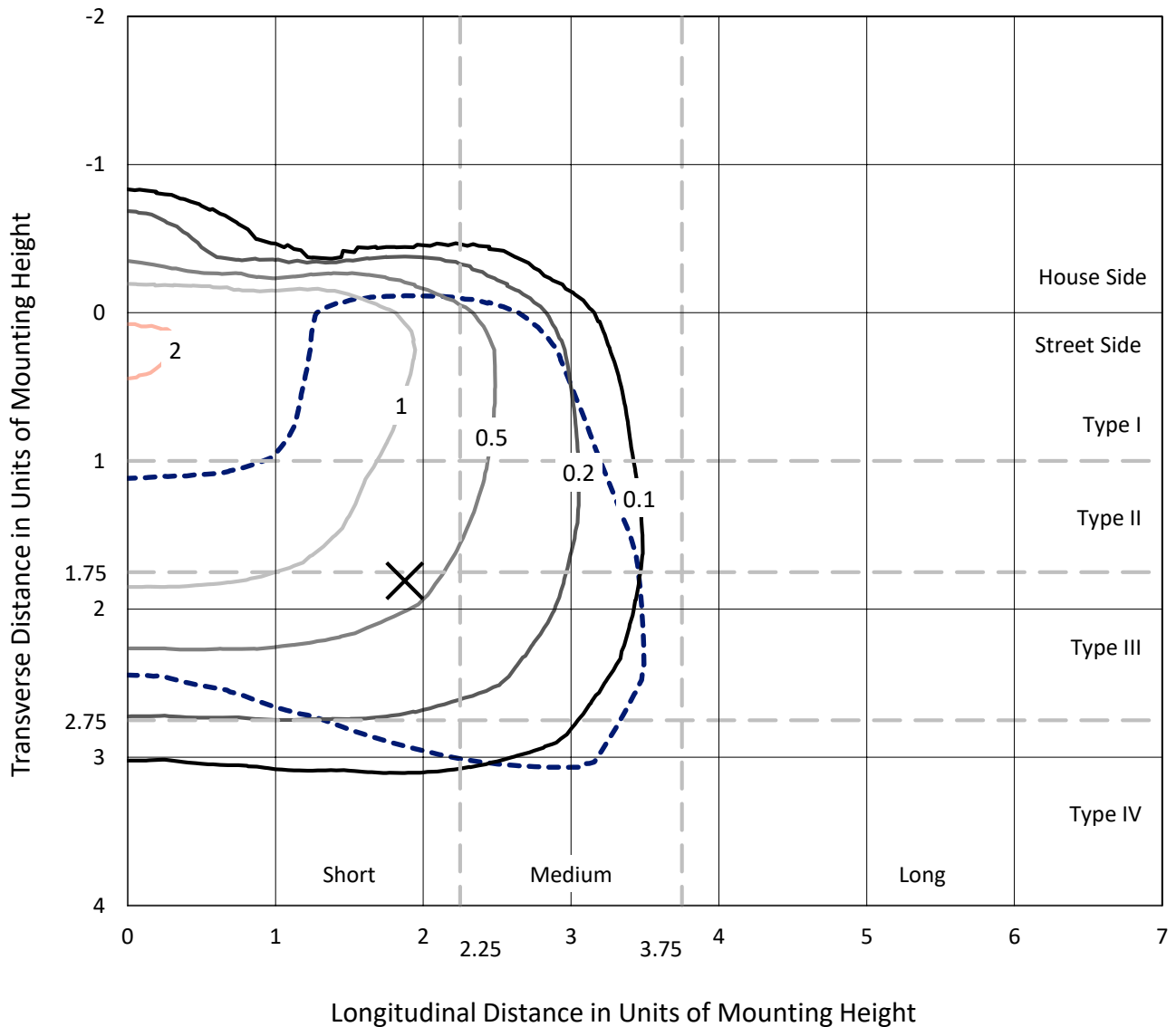
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P322856  
 CATALOG NUMBER: GAN-SA2D-730-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

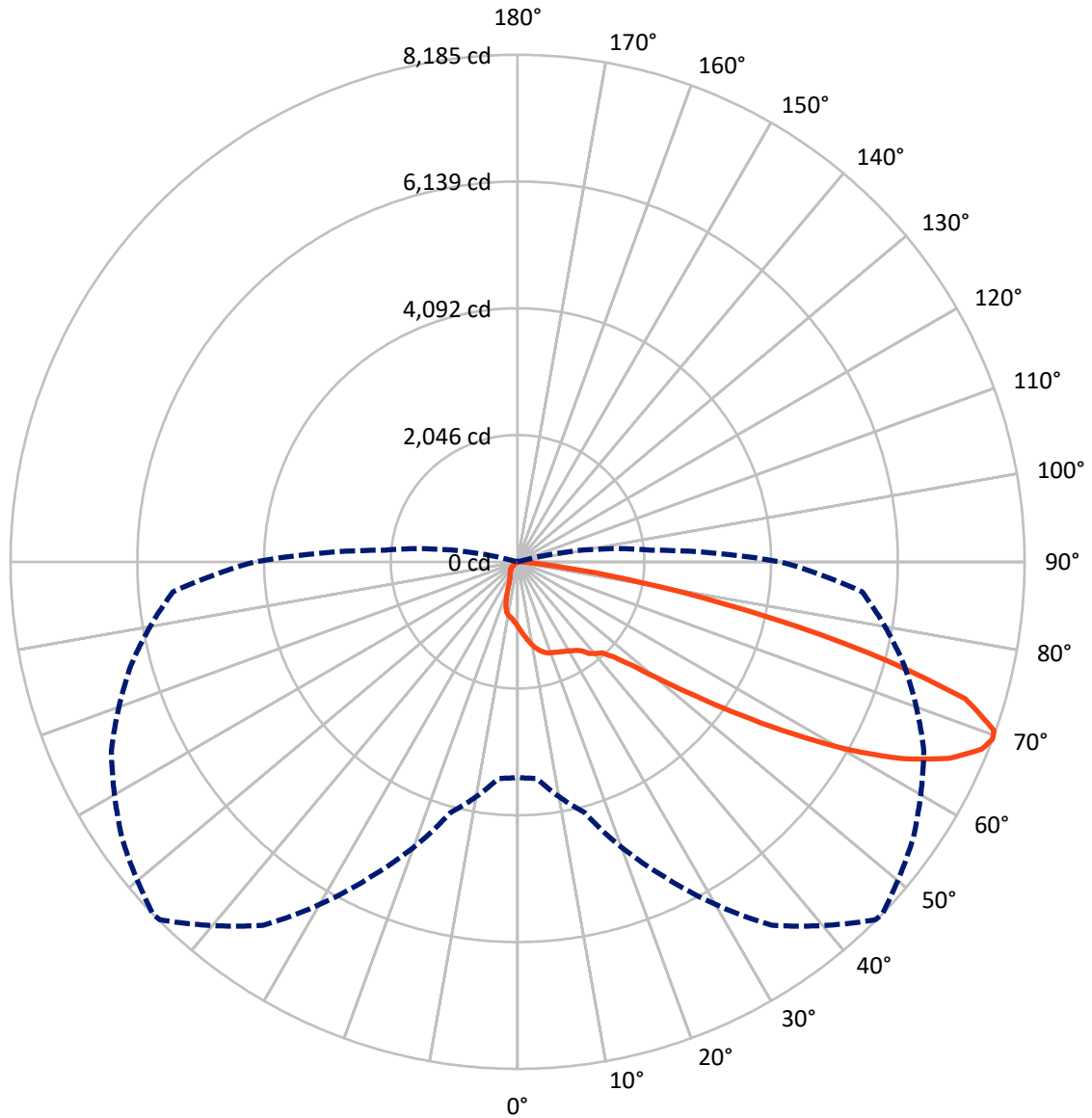
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P322856  
CATALOG NUMBER: GAN-SA2D-730-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P322856  
 CATALOG NUMBER: GAN-SA2D-730-U-T4W-HSS

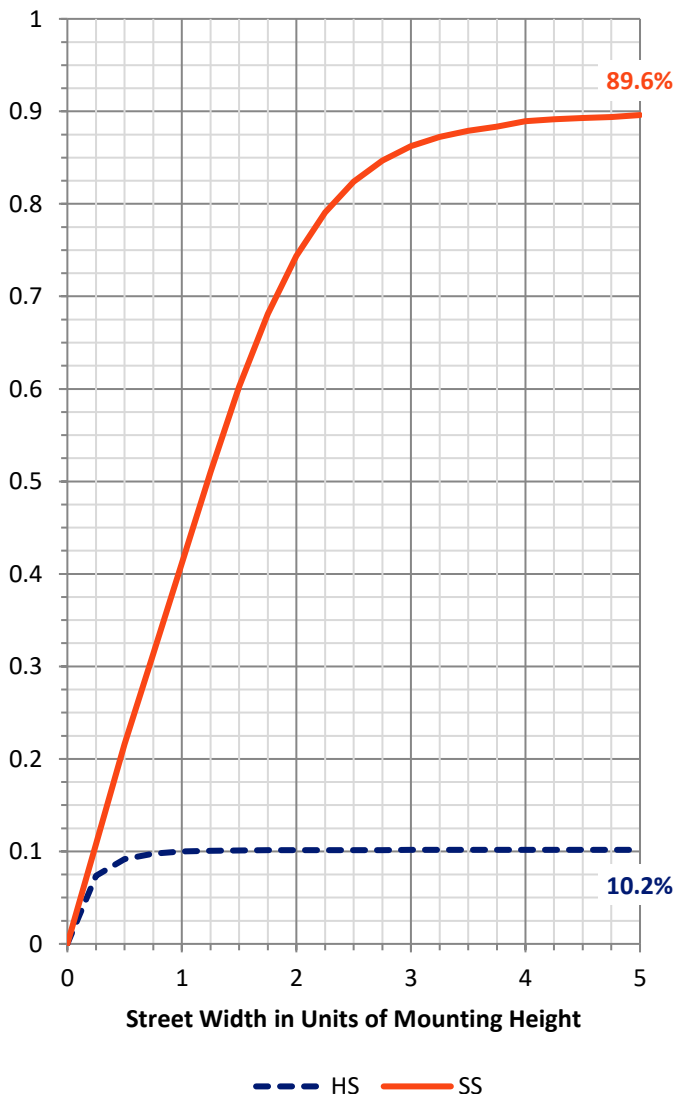
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1075.4	0.0	1075.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	9403.6	0.0	9403.6
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	10479.0	0.0	10479.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	1.0
10°-20°	317.0	3.0
20°-30°	498.6	4.8
30°-40°	715.0	6.8
40°-50°	1235.8	11.8
50°-60°	2441.5	23.3
60°-70°	3412.2	32.6
70°-80°	1648.4	15.7
80°-90°	106.0	1.0
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°	10479.0	100.0
0°-180°	10479.0	100.0

**Coefficient of Utilization**

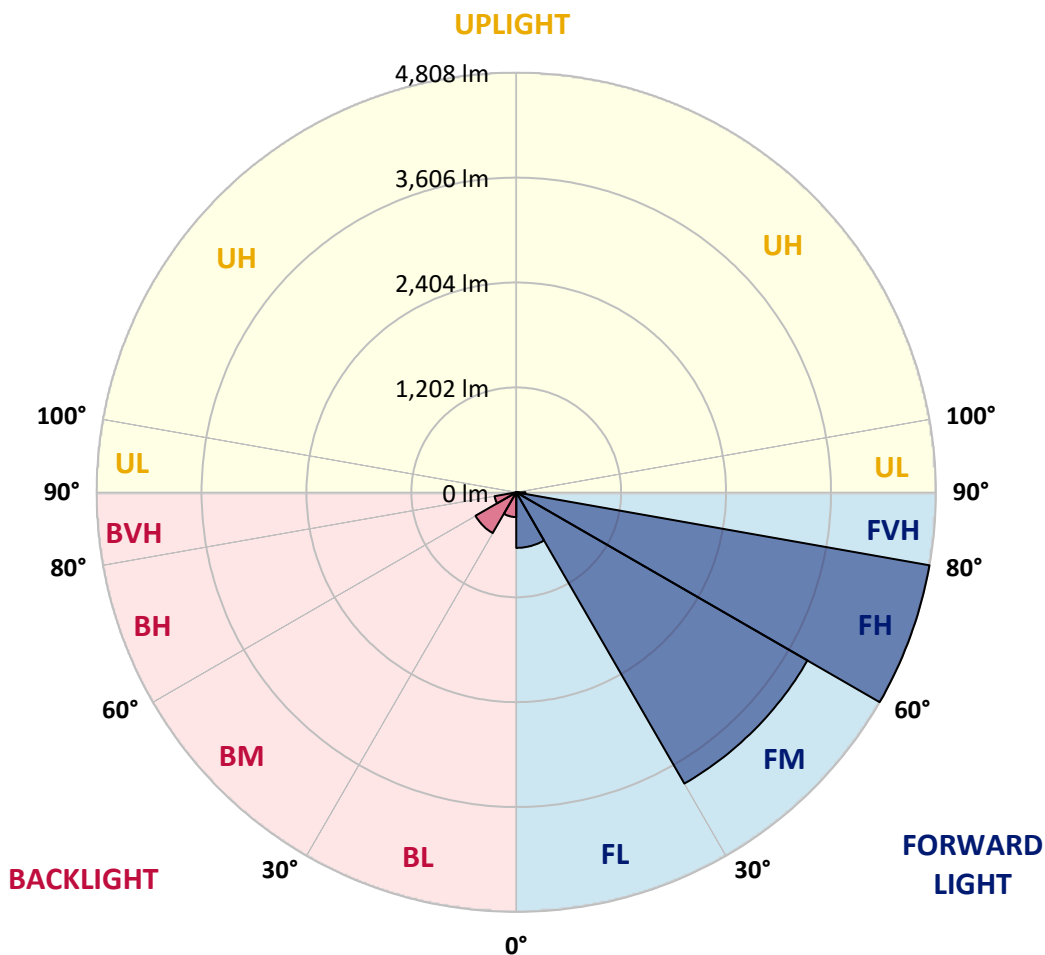


REPORT NUMBER: P322856  
 CATALOG NUMBER: GAN-SA2D-730-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.7	6.1			
FM (30°-60°)	3853.4	36.8			
FH (60°-80°)	4808.4	45.9			G2/5000
FVH (80°-90°)	105.1	1.0			G2/225
BL (0°-30°)	283.4	2.7	B1/500		
BM (30°-60°)	538.9	5.1	B1/1000		
BH (60°-80°)	252.2	2.4	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





REPORT NUMBER: P322856

CATALOG NUMBER: GAN-SA2D-730-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0
2.5°	1166.4	1164.9	1158.0	1155.1	1138.4	1128.6	1124.6	1112.4	1094.7	1077.0	1057.3
5°	1299.1	1298.6	1285.8	1273.5	1242.1	1212.6	1207.2	1178.7	1138.9	1101.5	1064.2
7.5°	1434.7	1428.3	1415.5	1391.9	1346.2	1299.1	1294.6	1254.3	1197.8	1143.8	1090.2
10°	1549.6	1545.7	1529.0	1493.1	1439.6	1386.0	1380.6	1331.0	1267.1	1200.8	1132.5
12.5°	1639.1	1636.1	1614.0	1569.3	1512.3	1456.8	1449.4	1405.2	1336.9	1262.7	1182.1
15°	1693.6	1692.1	1665.1	1617.4	1561.4	1513.3	1506.9	1468.1	1404.7	1327.1	1236.2
17.5°	1706.4	1706.9	1678.8	1630.7	1584.5	1550.1	1545.2	1515.7	1462.7	1385.5	1290.2
20°	1677.9	1683.8	1658.7	1616.9	1588.4	1570.3	1566.3	1548.6	1503.9	1431.2	1333.4
22.5°	1637.6	1640.5	1623.3	1595.3	1583.5	1587.0	1585.0	1575.2	1537.3	1470.5	1376.2
25°	1613.0	1613.0	1602.7	1579.1	1587.0	1608.1	1608.6	1606.6	1576.7	1518.7	1428.3
27.5°	1612.0	1609.1	1597.3	1579.6	1601.2	1633.6	1635.6	1648.9	1630.2	1577.1	1493.1
30°	1651.3	1647.9	1622.8	1599.7	1627.3	1662.1	1667.1	1696.0	1686.7	1640.5	1565.4
32.5°	1743.2	1730.9	1675.4	1637.6	1658.2	1700.0	1706.4	1752.5	1767.3	1718.6	1635.1
35°	1869.0	1830.2	1750.1	1709.3	1711.3	1755.0	1760.9	1828.7	1872.4	1790.4	1689.2
37.5°	2042.4	2023.3	1893.1	1784.0	1792.8	1859.2	1876.4	1950.1	1937.8	1829.7	1750.6
40°	2422.7	2392.7	2254.2	1993.3	1871.0	1943.7	1949.1	1988.4	1989.4	1918.6	1878.3
42.5°	2940.6	2928.3	2782.4	2373.1	2024.7	2000.2	2010.0	2076.3	2150.5	2106.3	2104.3
45°	3513.9	3507.6	3352.8	2877.2	2335.7	2185.4	2197.7	2286.6	2428.6	2438.4	2500.8
47.5°	3975.3	3972.3	3883.4	3439.8	2811.8	2499.4	2503.3	2597.6	2847.2	2970.5	3070.3
50°	4395.9	4410.1	4339.9	4048.5	3460.4	2991.2	2981.8	3044.7	3445.6	3647.6	3771.4
52.5°	4980.5	5000.7	4803.7	4616.5	4140.9	3601.4	3594.0	3659.9	4164.9	4316.3	4338.4
55°	5496.9	5462.5	5306.8	5252.7	4970.7	4355.1	4353.1	4411.1	4860.7	4925.0	4965.8
57.5°	5724.9	5711.6	5786.8	5910.6	5839.9	5245.9	5241.4	5197.2	5483.2	5490.0	5615.3
60°	5868.8	5885.1	6115.5	6497.3	6673.6	6204.4	6175.9	5906.2	6077.7	6062.4	6196.6
62.5°	5760.8	5792.7	6207.4	6843.6	7297.6	7041.1	7000.9	6555.7	6585.7	6533.1	6657.9
65°	5186.9	5236.5	5916.0	6778.3	7607.1	7695.1	7654.3	7129.1	6989.1	6902.6	6833.3
67.5°	4211.6	4241.1	4950.6	6209.8	7467.6	8085.2	8076.9	7631.7	7293.7	6840.2	6302.7
69°	3480.5	3509.5	4192.5	5611.4	7160.5	8168.7	8184.9	7792.9	7235.7	6460.9	5584.4
70°	2947.9	2978.9	3615.2	5098.5	6804.3	8129.9	8158.9	7777.6	7069.6	6021.7	4954.0
72.5°	1546.2	1572.7	2225.7	3512.5	5547.0	7465.2	7553.1	7120.2	5992.7	4373.3	2929.3
75°	485.9	501.1	869.1	1836.1	3797.9	5804.5	5824.6	5585.4	4255.3	2405.5	1220.0
77.5°	185.2	180.8	289.4	676.6	1920.1	3654.9	3778.3	3490.4	2233.1	850.5	281.5
80°	99.7	100.2	150.3	280.1	821.5	1878.3	1982.5	1691.6	793.5	265.3	64.9
82.5°	43.2	45.2	84.5	148.4	377.3	692.8	744.8	620.0	303.1	178.4	24.1
85°	9.3	10.3	40.8	80.6	153.8	194.6	203.9	201.0	193.1	138.6	9.3
87.5°	0.0	0.0	18.2	29.0	38.8	44.2	38.8	50.6	106.6	93.4	4.9
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: P322856

CATALOG NUMBER: GAN-SA2D-730-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0
2.5°	1050.9	1042.1	1026.9	1010.2	998.4	986.1	976.3	971.8	966.9	963.5	967.9
5°	1049.0	1031.8	1002.3	973.8	953.2	936.5	922.7	917.3	911.9	908.0	907.5
7.5°	1066.2	1042.1	996.9	955.1	923.2	900.6	881.9	874.1	867.7	864.7	862.3
10°	1099.1	1068.1	1007.7	953.2	911.9	873.6	833.3	802.3	782.2	772.9	769.4
12.5°	1141.8	1103.0	1028.3	963.5	903.5	829.8	744.4	670.7	623.0	607.3	597.9
15°	1191.9	1143.8	1055.4	976.7	873.1	738.5	593.5	497.2	453.0	444.2	434.3
17.5°	1240.1	1187.0	1087.8	979.2	806.3	590.1	434.8	369.5	352.3	358.2	359.6
20°	1282.4	1229.8	1119.7	957.6	684.9	442.7	336.6	320.3	326.7	338.0	340.0
22.5°	1325.1	1271.1	1149.2	900.6	529.6	336.1	303.1	307.1	313.5	324.8	326.7
25°	1377.2	1321.2	1176.7	795.9	397.5	285.9	287.9	293.8	300.2	310.5	311.5
27.5°	1437.1	1384.5	1194.9	659.8	294.8	262.9	269.2	278.1	284.5	294.3	296.3
30°	1516.7	1468.1	1200.8	518.8	247.1	242.2	245.2	256.0	265.3	274.2	275.6
32.5°	1591.4	1550.6	1181.1	391.6	229.0	223.1	223.1	229.4	240.3	248.6	250.6
35°	1660.2	1633.6	1118.3	286.4	215.2	205.4	200.5	200.5	207.3	214.2	216.2
37.5°	1751.1	1750.1	1016.5	228.5	201.9	190.6	180.3	172.5	170.0	171.5	172.5
40°	1906.8	1908.3	883.9	204.9	190.6	175.4	159.7	145.4	132.2	127.7	127.3
42.5°	2150.0	2127.9	744.8	193.6	180.8	159.7	136.1	116.9	96.3	89.9	89.4
45°	2536.2	2405.0	597.4	183.3	170.5	142.0	112.5	86.5	69.8	64.9	64.9
47.5°	3098.8	2769.1	462.8	172.0	156.7	121.8	85.0	62.4	51.1	48.6	49.1
50°	3680.5	3125.8	354.7	157.7	140.0	100.7	62.9	45.2	38.8	38.8	39.3
52.5°	4196.4	3387.2	276.6	142.5	119.4	79.1	47.7	35.4	32.4	31.9	32.4
55°	4679.4	3555.7	211.8	124.8	94.8	59.0	36.4	29.0	27.0	26.0	25.5
57.5°	5145.1	3639.2	158.7	100.7	68.8	42.7	29.0	24.6	22.6	21.1	20.6
60°	5455.2	3571.4	109.1	74.2	47.7	31.0	24.1	21.1	18.7	17.2	16.7
62.5°	5630.1	3386.2	70.3	53.6	33.9	23.1	19.2	17.7	14.2	12.8	12.8
65°	5559.3	3080.6	49.1	38.3	24.6	17.2	14.2	14.2	10.3	8.4	7.9
67.5°	4926.5	2602.5	37.3	28.5	17.7	12.8	10.8	12.3	6.4	3.9	3.9
69°	4238.6	2156.9	31.9	23.6	14.7	10.3	9.3	11.3	4.4	2.9	2.5
70°	3683.9	1860.6	29.0	20.6	12.3	8.8	8.4	10.8	4.4	2.5	2.0
72.5°	2204.1	1037.7	22.1	14.7	7.9	6.9	6.9	12.3	4.4	2.5	2.0
75°	890.8	365.5	16.2	10.3	5.9	5.9	8.4	15.7	3.9	2.0	1.5
77.5°	201.9	80.1	9.3	6.4	3.9	5.9	9.8	12.3	2.5	1.0	0.0
80°	49.1	19.7	5.9	3.9	2.5	4.4	7.4	6.9	0.5	0.0	0.0
82.5°	16.2	6.9	2.5	2.0	0.5	1.5	3.4	2.0	0.0	0.0	0.0
85°	6.9	3.9	1.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.4	1.5	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)