

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: P318396

Luminaire Tested: **GAN-SA2B-740-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11695 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

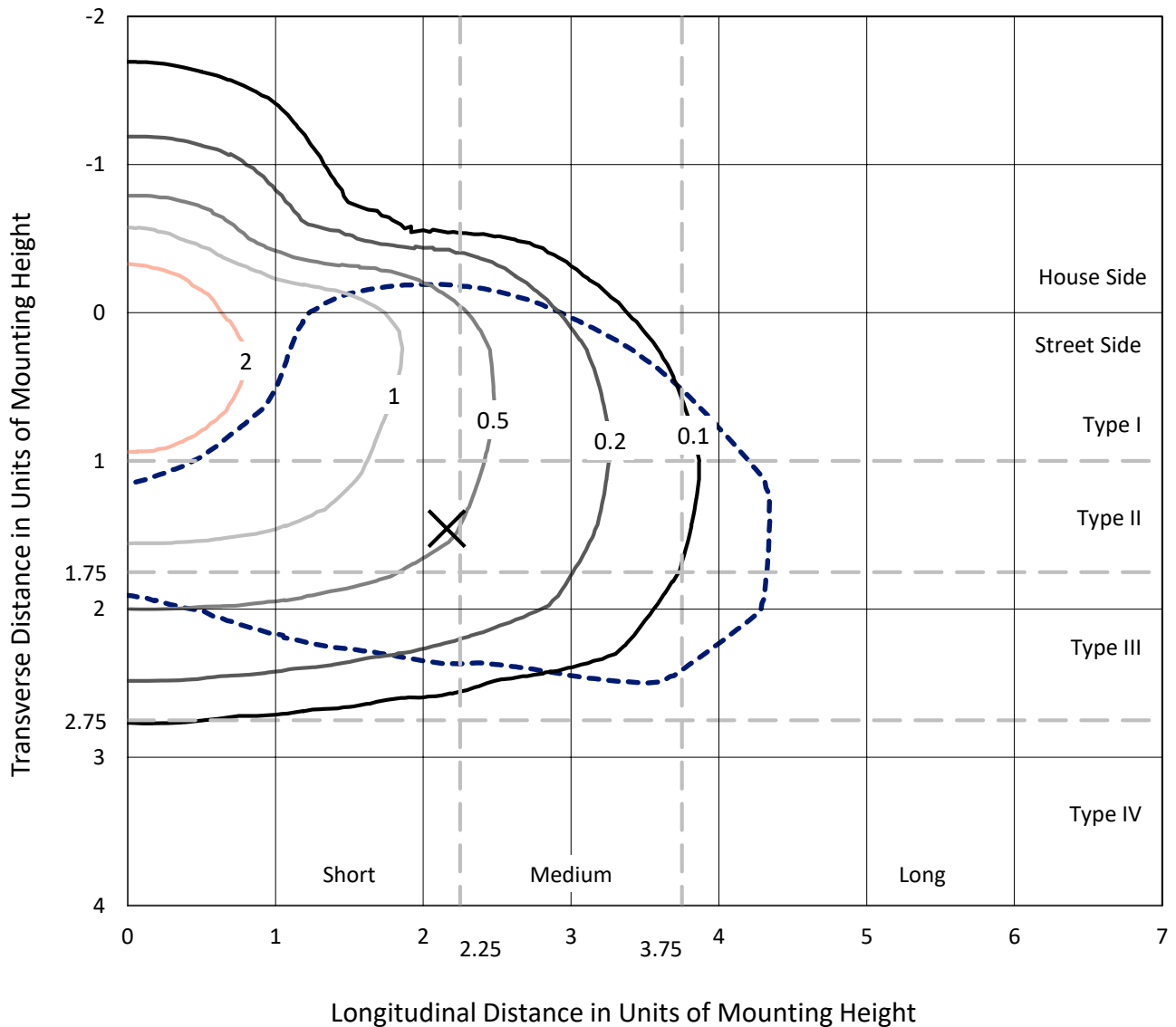
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P318396  
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### Iso-Footcandle Lines of Horizontal Illumination

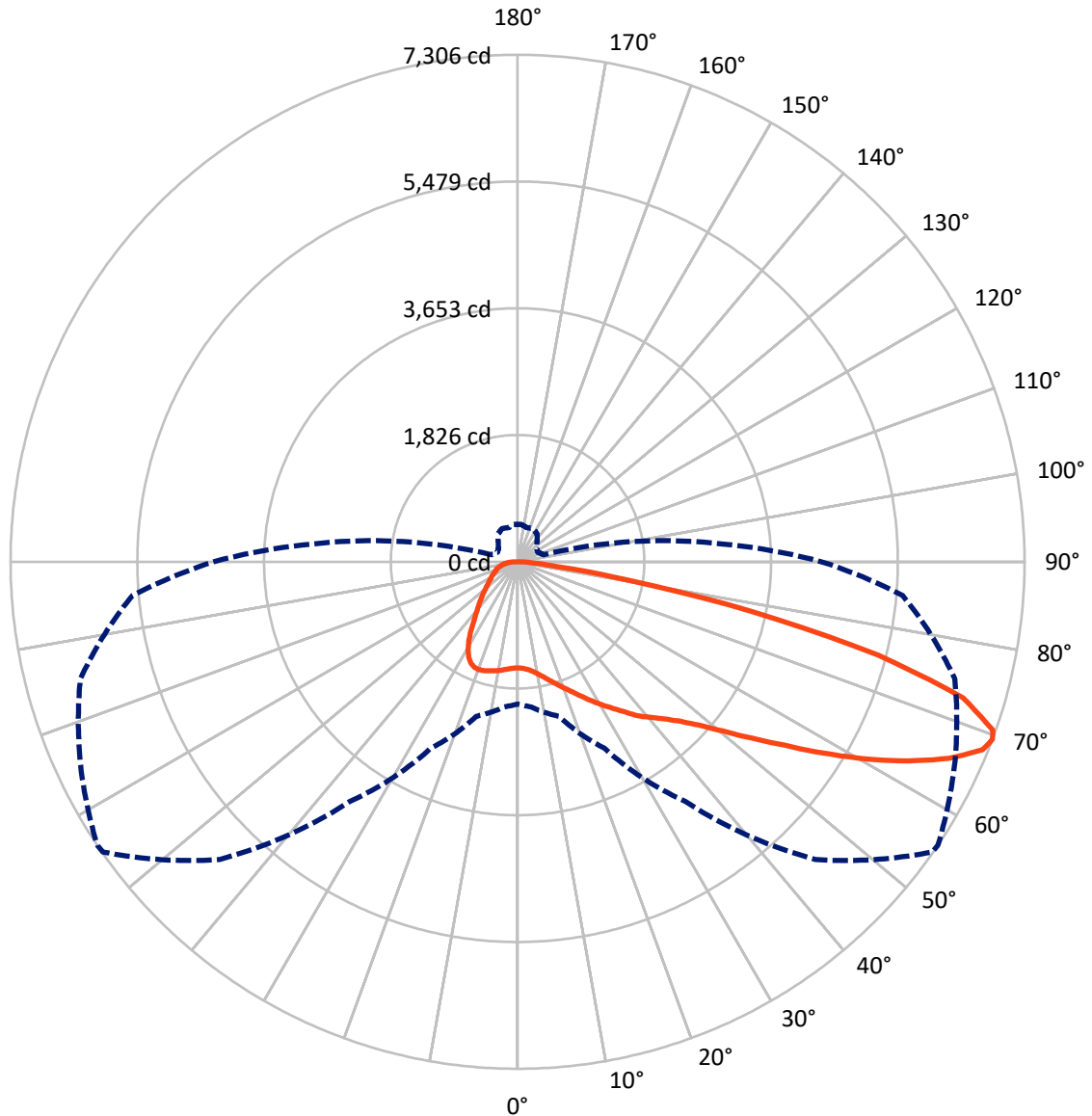
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P318396  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA2B-740-U-T3

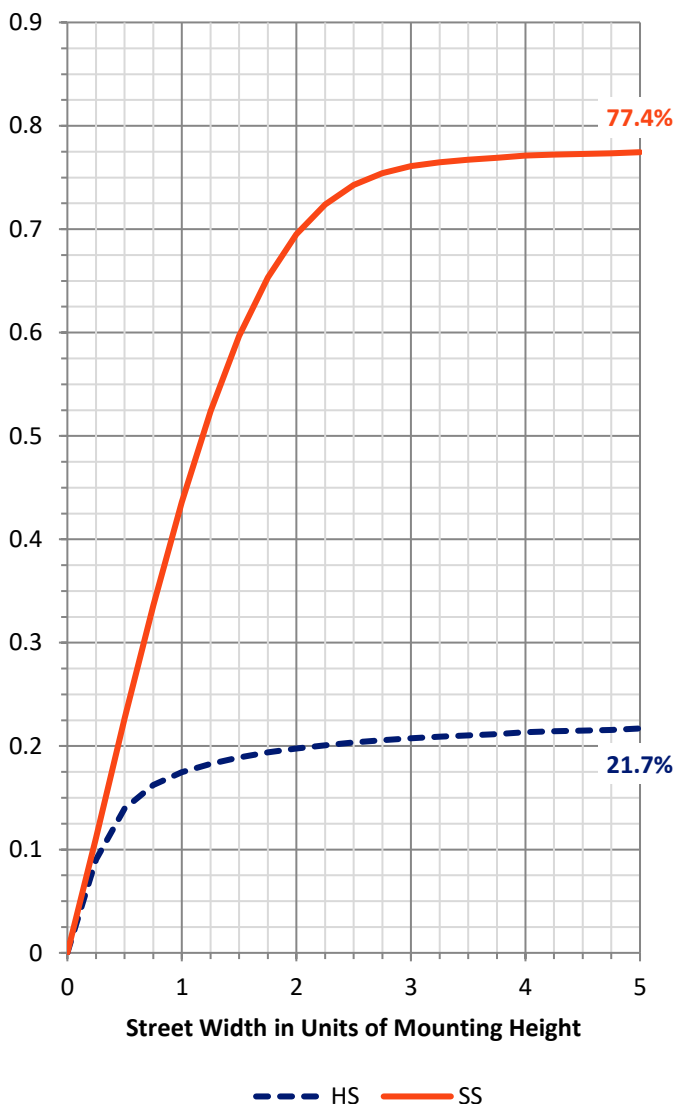
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2604.5	0.0	2604.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	9090.5	0.0	9090.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	11695.0	0.0	11695.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	1.3
10°-20°	482.9	4.1
20°-30°	842.9	7.2
30°-40°	1210.8	10.4
40°-50°	1675.7	14.3
50°-60°	2455.1	21.0
60°-70°	2993.3	25.6
70°-80°	1654.9	14.2
80°-90°	229.2	2.0
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°	11695.0	100.0
0°-180°	11695.0	100.0



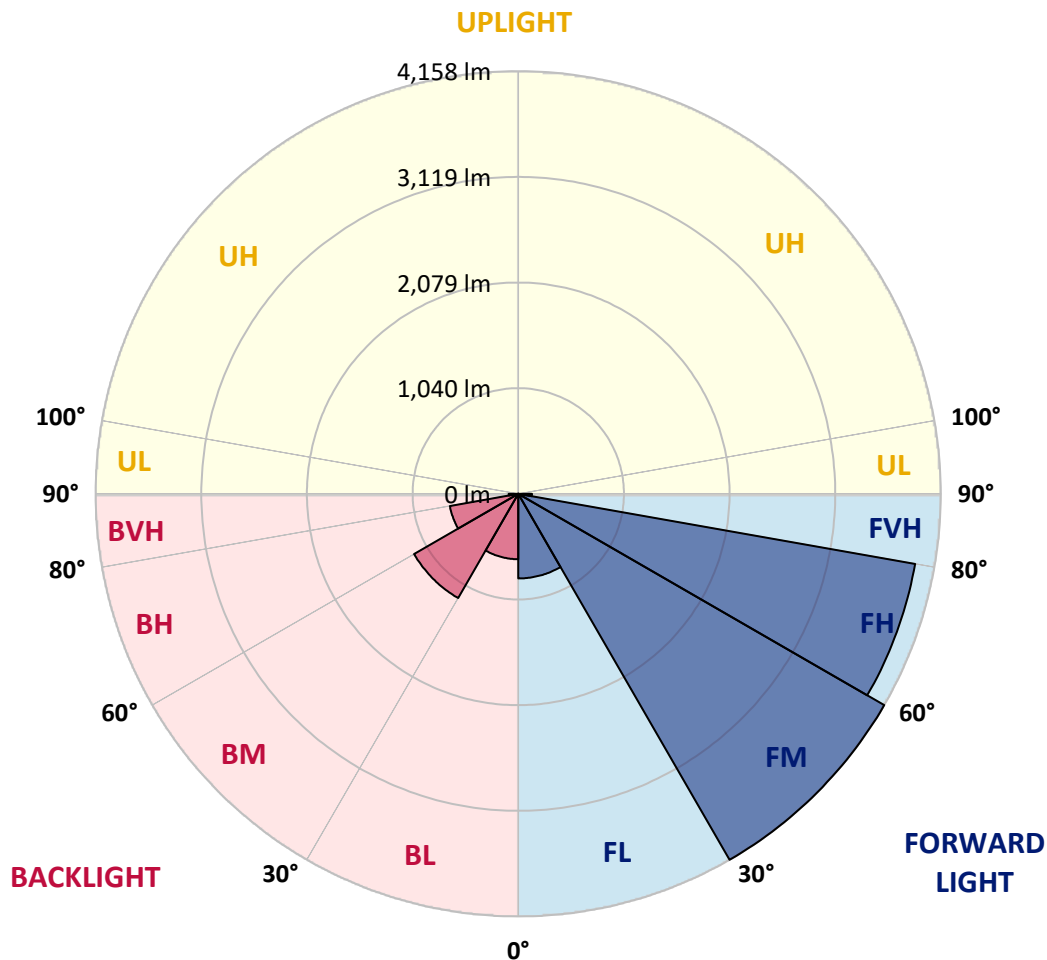
REPORT NUMBER: P318396  
 CATALOG NUMBER: GAN-SA2B-740-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.3	7.1			
FM (30°-60°)	4158.0	35.6			
FH (60°-80°)	3965.2	33.9			G2/5000
FVH (80°-90°)	135.0	1.2			G2/225
BL (0°-30°)	643.6	5.5	B2/1000		
BM (30°-60°)	1183.7	10.1	B2/2500		
BH (60°-80°)	683.0	5.8	B2/1000		G2/1000
BVH (80°-90°)	94.2	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1538.6	1540.2	1539.0	1542.2	1538.6	1541.0	1539.0	1539.0	1537.8	1534.2	1530.2
5°	1562.8	1566.0	1564.0	1567.2	1562.8	1563.6	1560.0	1560.0	1556.3	1548.7	1540.6
7.5°	1600.7	1604.3	1602.7	1605.9	1599.9	1599.9	1595.0	1594.6	1587.4	1574.9	1565.6
10°	1645.8	1650.6	1649.0	1653.8	1649.0	1650.6	1645.8	1645.8	1636.1	1618.4	1606.7
12.5°	1711.5	1717.5	1713.1	1712.7	1710.6	1713.9	1709.8	1709.0	1700.2	1676.0	1659.9
15°	1799.3	1805.7	1796.5	1795.7	1784.4	1783.2	1783.2	1782.0	1776.3	1747.3	1720.7
17.5°	1900.4	1902.4	1894.4	1881.5	1867.0	1857.7	1856.5	1859.7	1859.7	1825.9	1783.6
20°	1999.5	2003.1	1996.7	1982.2	1963.7	1950.0	1940.3	1946.7	1946.3	1906.0	1846.0
22.5°	2107.5	2115.9	2106.3	2087.7	2066.0	2050.7	2033.8	2039.4	2039.8	1990.2	1907.3
25°	2247.3	2239.6	2233.6	2207.4	2176.4	2160.7	2145.0	2150.6	2149.0	2080.9	1970.5
27.5°	2371.0	2372.6	2364.5	2336.7	2300.9	2266.2	2265.4	2269.0	2263.0	2175.2	2030.1
30°	2514.8	2515.6	2504.3	2479.3	2440.3	2395.5	2385.1	2391.1	2378.2	2264.6	2093.0
32.5°	2657.8	2661.9	2649.4	2619.1	2587.7	2533.3	2512.4	2516.4	2484.2	2356.1	2157.8
35°	2783.1	2788.8	2784.7	2764.6	2730.3	2683.6	2658.6	2656.2	2616.3	2468.1	2243.7
37.5°	2910.8	2916.1	2911.6	2894.7	2881.0	2831.5	2818.2	2818.2	2748.9	2582.5	2352.8
40°	3042.2	3050.2	3045.0	3021.6	3009.9	2987.4	2955.6	2947.9	2873.0	2719.9	2530.9
42.5°	3164.3	3174.7	3195.7	3182.0	3158.2	3161.4	3097.4	3093.3	3038.6	2922.9	2754.5
45°	3337.5	3352.8	3388.3	3377.8	3372.9	3355.2	3279.1	3275.4	3254.5	3196.1	3032.1
47.5°	3526.4	3547.4	3611.5	3613.5	3665.4	3632.0	3528.5	3516.0	3520.8	3523.2	3370.9
50°	3700.5	3723.5	3828.6	3878.2	4000.6	4007.9	3842.3	3831.0	3850.0	3905.6	3765.8
52.5°	3839.5	3868.5	3999.8	4152.9	4362.8	4422.5	4228.7	4220.2	4234.3	4330.2	4212.2
55°	3941.4	3972.8	4115.9	4394.7	4729.9	4835.0	4673.5	4665.4	4674.3	4796.3	4697.6
57.5°	3965.2	3972.8	4180.3	4557.4	5039.7	5292.3	5217.8	5201.6	5158.1	5264.5	5233.5
60°	3853.6	3884.2	4127.1	4614.6	5279.4	5743.1	5786.6	5766.5	5644.4	5731.4	5706.5
62.5°	3627.2	3682.0	3928.5	4527.6	5373.3	6111.3	6344.6	6320.4	6110.1	6166.5	6046.5
65°	3257.3	3280.7	3539.7	4227.5	5254.0	6347.0	6842.2	6830.1	6565.4	6477.2	6109.3
67.5°	2595.8	2639.7	2859.7	3600.2	4766.1	6319.2	7226.9	7225.7	6862.7	6592.4	5886.5
69°	2050.7	2096.2	2305.7	2965.6	4217.4	6065.0	7291.4	7305.5	6946.5	6522.3	5568.3
70°	1634.9	1687.7	1831.5	2497.9	3730.3	5729.8	7237.8	7263.2	6930.4	6406.7	5274.6
72.5°	695.8	738.5	840.8	1287.6	2273.5	4278.6	6617.8	6713.7	6556.9	5863.6	4359.2
75°	303.8	317.1	363.4	525.0	1009.2	2328.7	5184.3	5361.6	5606.5	4956.3	3247.2
77.5°	222.4	228.0	253.4	308.2	452.8	879.5	3333.9	3437.0	4043.3	3606.6	1991.9
80°	172.0	176.1	195.8	226.4	295.7	355.7	1520.5	1609.1	2273.5	1852.5	829.5
82.5°	137.0	139.8	153.5	166.8	204.3	215.5	504.8	560.0	839.2	511.7	219.6
85°	127.3	130.5	135.4	121.7	130.9	126.5	218.4	228.4	253.4	201.0	91.9
87.5°	57.6	68.1	134.2	94.7	69.7	55.6	89.4	93.5	105.2	105.6	40.7
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: P318396  
 CATALOG NUMBER: GAN-SA2B-740-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1532.6	1531.4	1533.4	1528.5	1534.6	1534.2	1532.2	1533.0	1537.0	1536.6	1537.0
5°	1541.8	1541.0	1543.4	1539.8	1547.1	1549.5	1549.9	1553.5	1558.0	1559.2	1559.2
7.5°	1565.2	1565.2	1566.4	1561.6	1566.4	1566.0	1564.0	1567.6	1572.1	1572.5	1572.1
10°	1605.5	1605.9	1603.9	1591.4	1587.4	1576.5	1566.4	1566.8	1572.5	1576.9	1578.1
12.5°	1656.3	1654.6	1645.8	1622.8	1605.9	1583.7	1573.3	1572.9	1578.5	1582.1	1583.3
15°	1714.3	1709.8	1686.9	1649.4	1619.6	1597.8	1580.9	1576.9	1573.7	1569.6	1570.0
17.5°	1769.1	1759.0	1720.7	1668.7	1637.3	1608.3	1575.7	1549.5	1531.4	1520.9	1517.7
20°	1824.7	1804.9	1749.7	1686.9	1647.0	1594.2	1531.4	1478.2	1445.1	1429.8	1427.0
22.5°	1875.4	1843.6	1776.7	1705.8	1639.3	1546.7	1448.0	1370.6	1324.7	1304.1	1305.7
25°	1925.0	1880.7	1804.9	1719.1	1600.7	1462.9	1331.9	1236.9	1183.7	1160.7	1159.9
27.5°	1968.5	1918.1	1835.5	1708.2	1528.5	1343.6	1194.6	1101.9	1057.6	1037.8	1034.6
30°	2018.4	1965.3	1876.2	1666.7	1423.0	1205.8	1060.4	995.1	963.7	944.0	940.3
32.5°	2079.3	2029.3	1909.7	1591.4	1288.0	1062.0	955.6	910.1	881.5	859.4	855.3
35°	2167.9	2113.9	1918.1	1483.4	1139.8	948.4	878.7	832.0	793.3	764.7	761.9
37.5°	2279.1	2219.9	1898.8	1343.6	995.9	874.7	814.6	757.0	706.7	666.4	659.9
40°	2439.5	2350.0	1845.2	1182.5	890.0	817.9	752.2	686.5	624.1	576.9	567.7
42.5°	2632.0	2502.7	1763.0	1022.1	812.2	760.2	690.1	608.8	549.1	515.7	510.9
45°	2877.0	2661.5	1649.0	881.9	735.7	702.6	623.3	548.3	511.3	486.7	482.7
47.5°	3156.6	2839.5	1529.3	767.9	670.8	648.6	569.7	521.3	491.9	472.6	469.0
50°	3500.3	3040.6	1402.4	674.4	605.5	583.8	544.3	506.4	483.1	468.2	464.5
52.5°	3887.8	3267.4	1311.0	600.7	551.5	535.8	531.0	498.4	479.4	468.2	464.5
55°	4305.2	3498.2	1212.3	538.7	504.8	509.2	522.1	499.2	486.3	472.6	467.3
57.5°	4723.0	3736.8	1102.3	486.3	467.7	489.5	516.1	500.8	489.9	476.6	471.8
60°	5053.4	3887.8	931.9	442.4	438.3	467.7	501.6	488.7	474.6	475.0	474.2
62.5°	5207.7	3879.8	743.7	403.3	408.9	438.3	478.2	469.8	458.1	473.8	475.0
65°	5121.1	3686.4	578.9	367.8	377.5	407.7	454.1	460.5	464.5	494.7	498.8
67.5°	4757.7	3310.1	448.4	336.8	348.9	386.8	456.5	501.6	506.8	538.7	538.3
69°	4381.8	2957.2	389.6	320.7	334.8	392.0	487.9	527.8	508.0	541.9	537.0
70°	4066.7	2678.0	358.2	309.8	328.4	401.3	508.8	527.4	502.0	531.0	522.9
72.5°	3132.0	1926.6	303.8	289.7	306.6	383.9	514.9	515.7	487.9	493.5	479.8
75°	2148.2	1217.5	265.1	262.3	273.6	346.1	495.5	492.7	451.2	443.2	431.9
77.5°	1184.5	618.4	225.2	236.1	243.7	306.6	450.4	446.4	412.2	395.2	391.2
80°	456.9	270.7	190.2	209.9	214.7	265.5	394.8	391.2	362.6	340.8	334.8
82.5°	172.4	141.8	157.1	181.7	180.1	219.2	334.4	332.4	304.6	272.8	263.1
85°	79.8	85.0	124.5	149.9	138.2	162.4	267.5	271.1	237.3	199.4	199.4
87.5°	33.8	47.5	88.2	113.2	93.1	109.6	196.2	187.3	172.0	119.3	112.0
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)