

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: P318058

Luminaire Tested: **GAN-SA4D-730-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4D-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27972 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

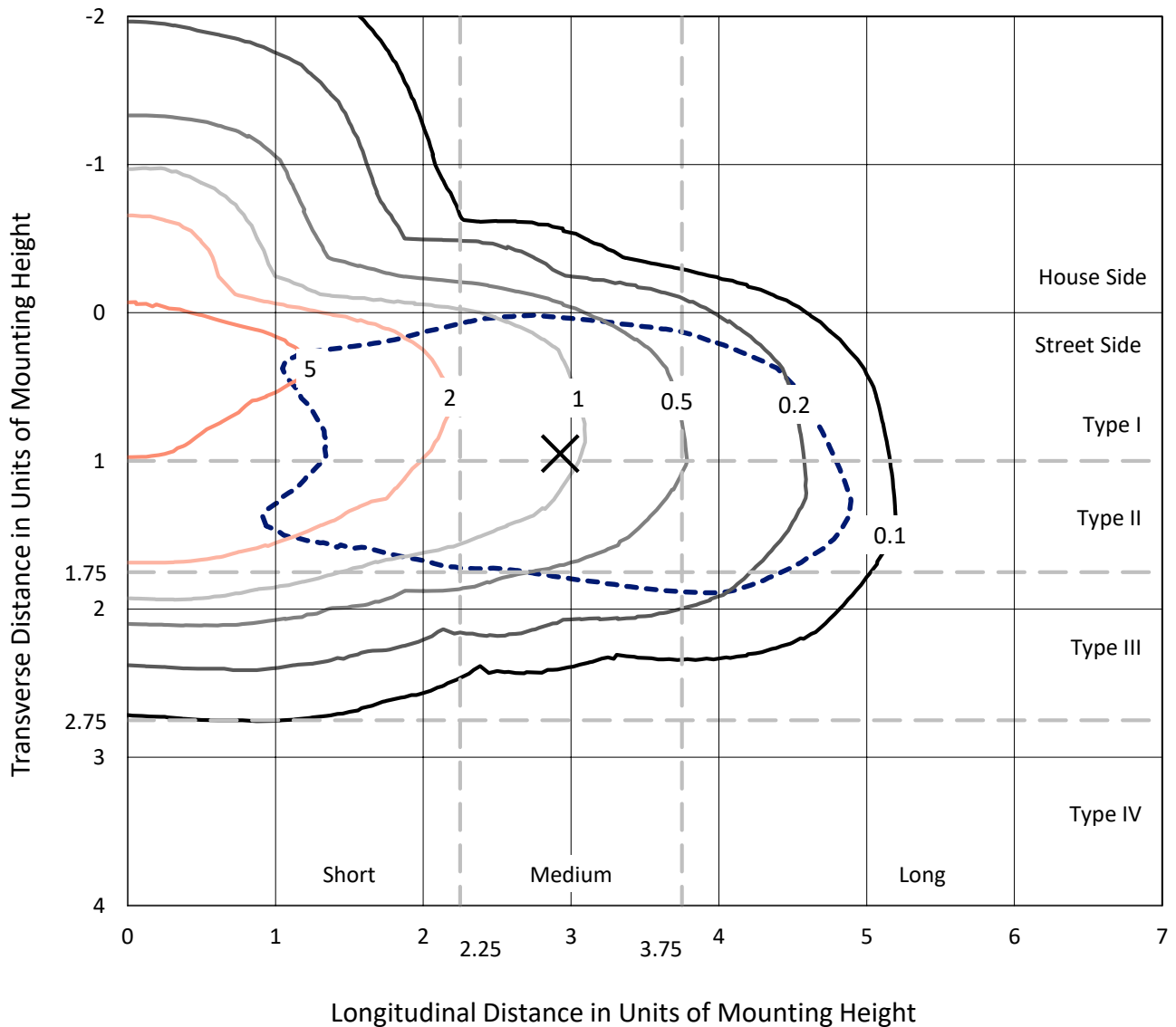
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P318058  
 CATALOG NUMBER: GAN-SA4D-730-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

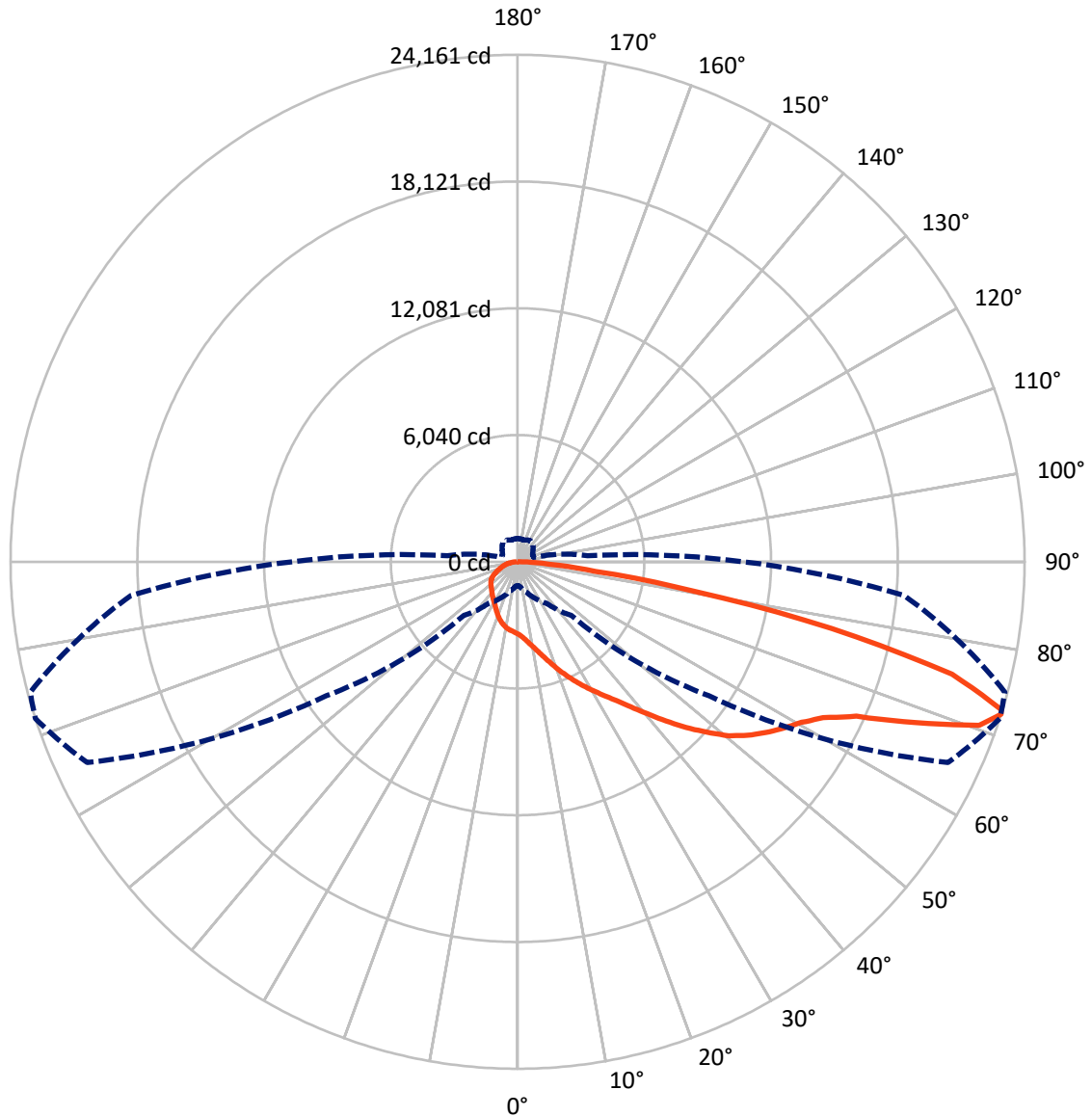
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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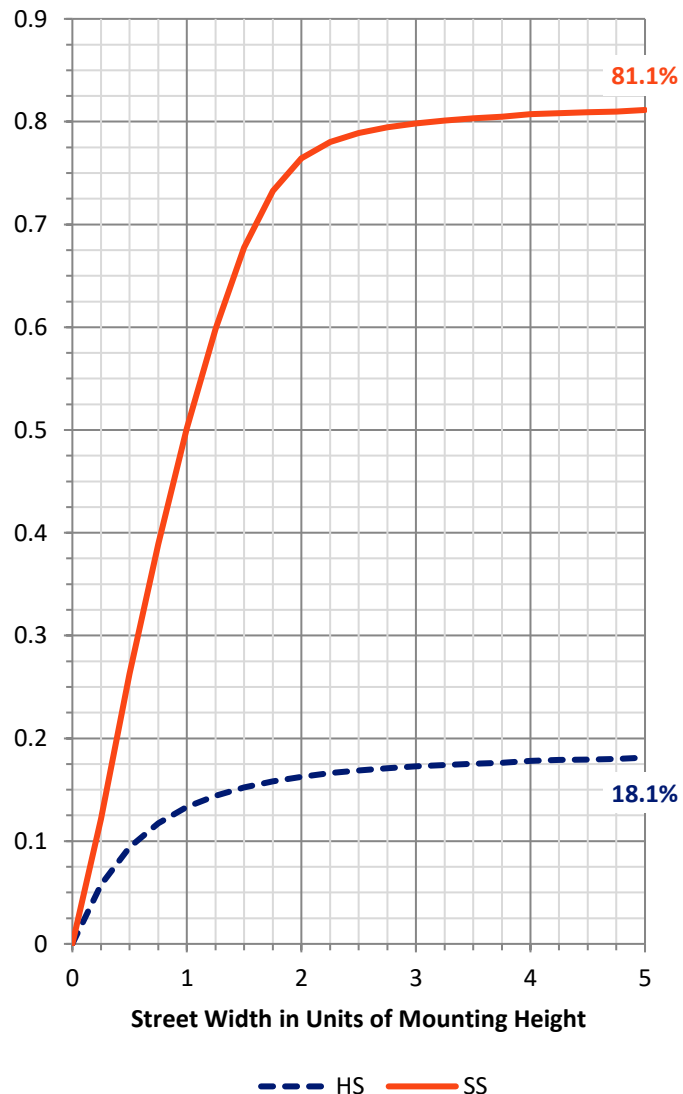
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5189.0	0.0	5189.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	22783.0	0.0	22783.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	27972.0	0.0	27972.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.8	1.2
10°-20°	1114.3	4.0
20°-30°	1952.6	7.0
30°-40°	2895.1	10.4
40°-50°	4234.4	15.1
50°-60°	5826.4	20.8
60°-70°	6486.6	23.2
70°-80°	4395.3	15.7
80°-90°	722.4	2.6
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°	27972.0	100.0
0°-180°	27972.0	100.0

**Coefficient of Utilization**

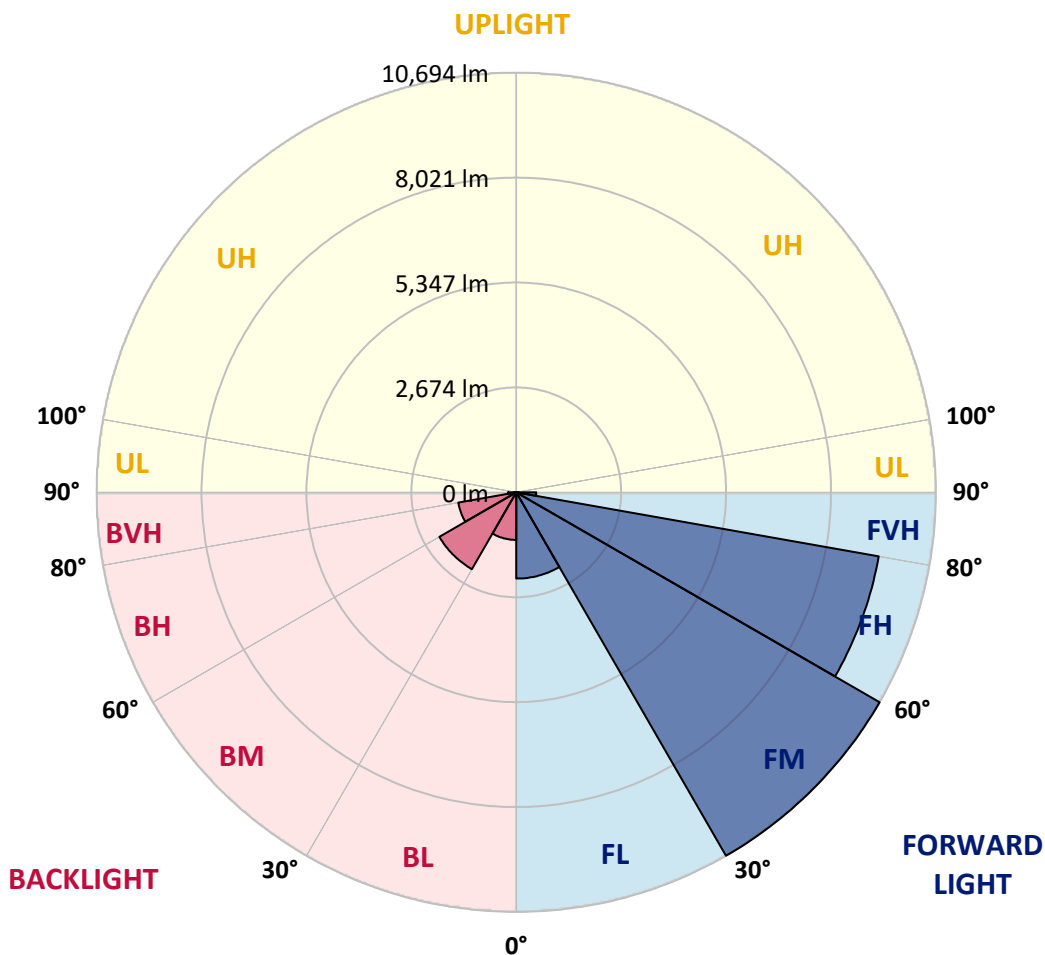


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 CATALOG NUMBER: GAN-SA4D-730-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2198.8	7.9			
FM (30°-60°)	10694.0	38.2			
FH (60°-80°)	9380.6	33.5			G4/12000
FVH (80°-90°)	509.6	1.8			G4/750
BL (0°-30°)	1213.0	4.3	B3/2500		
BM (30°-60°)	2261.9	8.1	B2/2500		
BH (60°-80°)	1501.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	212.8	0.8			G2/225
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3
2.5°	3801.5	3795.7	3775.5	3775.5	3737.0	3704.2	3642.6	3601.2	3552.0	3534.7	3476.9
5°	4169.4	4171.3	4146.3	4129.0	4072.1	4002.8	3897.8	3802.5	3707.1	3668.6	3550.1
7.5°	4478.6	4474.7	4468.0	4453.5	4400.6	4329.3	4187.7	4046.1	3905.5	3847.7	3643.5
10°	4677.0	4685.7	4691.4	4698.2	4676.0	4625.0	4491.1	4318.7	4134.7	4055.8	3755.3
12.5°	4777.2	4792.6	4819.5	4865.8	4902.4	4896.6	4799.3	4616.3	4397.7	4298.5	3894.9
15°	4835.9	4856.1	4898.5	4981.3	5084.4	5143.1	5117.1	4951.5	4707.8	4585.5	4065.4
17.5°	4872.5	4888.9	4954.4	5065.1	5218.3	5374.3	5442.7	5304.0	5058.4	4918.7	4260.9
20°	4897.5	4910.1	4991.9	5122.0	5320.4	5568.9	5759.6	5724.9	5444.6	5263.5	4465.1
22.5°	4953.4	4964.0	5042.0	5173.0	5392.6	5713.3	6064.9	6116.9	5852.0	5646.9	4683.7
25°	5109.4	5109.4	5174.9	5266.4	5472.5	5838.5	6323.0	6553.2	6268.1	6029.2	4886.0
27.5°	5407.0	5404.2	5428.2	5460.0	5616.0	5965.7	6553.2	6938.4	6699.6	6438.6	5082.5
30°	5759.6	5778.8	5781.7	5766.3	5839.5	6124.6	6766.0	7344.9	7134.0	6852.7	5283.8
32.5°	6213.2	6225.7	6211.3	6160.2	6149.6	6350.0	6975.0	7770.6	7604.0	7285.2	5467.7
35°	6789.1	6765.1	6719.8	6615.8	6516.6	6651.4	7213.9	8196.3	8131.8	7808.1	5721.0
37.5°	7406.5	7407.5	7351.6	7115.7	6978.9	7036.7	7543.3	8678.8	8770.3	8430.3	6045.6
40°	7901.6	7927.6	7962.2	7652.1	7474.9	7554.8	7962.2	9238.4	9525.4	9168.1	6468.4
42.5°	8247.3	8277.2	8375.4	8180.9	7996.9	8145.2	8455.4	9835.5	10373.0	10019.5	6963.5
45°	8613.3	8629.7	8699.0	8615.3	8497.8	8832.0	9011.1	10453.9	11269.7	10926.8	7517.3
47.5°	8998.6	9015.9	9087.2	9031.3	8969.7	9473.4	9590.9	11036.6	12128.8	11923.6	8108.6
50°	9474.4	9485.9	9553.3	9452.2	9471.5	9956.9	10109.1	11571.1	13029.3	12819.3	8701.9
52.5°	10123.5	10126.4	10219.8	10128.3	10037.8	10311.3	10555.0	12074.8	13735.3	13636.1	9295.2
55°	10632.1	10662.9	10969.2	10949.9	10897.9	10633.0	10927.7	12554.5	14365.2	14412.4	9925.1
57.5°	10307.5	10427.9	11048.1	11485.4	11911.1	11433.4	11431.5	13094.8	14950.8	15174.2	10617.6
60°	9027.5	9191.2	10105.2	11075.1	12407.1	12826.1	12477.4	13754.5	15542.1	15929.3	11485.4
62.5°	6447.2	6716.9	7955.5	9504.2	11727.1	13748.8	14606.0	14801.5	16346.3	16803.8	12613.2
65°	3259.3	3463.4	4501.7	6367.3	9369.4	13145.8	16919.4	17093.7	17743.9	18150.3	14349.8
67.5°	1980.2	2057.3	2563.9	3541.5	5744.1	10240.1	17674.5	20914.5	20448.3	20664.1	16826.0
70°	1459.2	1516.0	1831.9	2352.0	3303.6	6009.0	15357.2	23641.1	23334.9	23310.8	18655.9
72°	1136.5	1177.9	1457.2	1900.3	2415.5	3605.0	11131.0	22634.7	24161.2	24039.9	18488.4
72.5°	1077.7	1114.3	1368.6	1788.5	2282.6	3267.9	10007.9	21955.7	24101.5	24046.6	18271.7
75°	848.5	874.5	1013.2	1383.1	1786.6	1854.0	5484.1	17014.8	21380.7	22269.6	16434.0
77.5°	702.1	706.0	779.2	1006.5	1392.7	1310.8	2693.9	11805.2	15310.0	16287.6	11641.4
80°	572.1	576.9	611.6	706.0	1053.7	969.9	1279.0	6788.2	8571.9	8582.5	5536.1
82.5°	455.6	456.5	495.1	516.2	757.0	693.5	732.9	3187.0	3745.6	3603.1	1989.8
85°	320.7	314.0	483.5	423.8	495.1	445.0	404.5	1261.7	1548.7	1481.3	623.1
87.5°	106.9	110.8	214.8	274.5	288.9	252.3	180.1	483.5	584.6	579.8	197.4
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: P318058  
 CATALOG NUMBER: GAN-SA4D-730-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3	3441.3
2.5°	3458.6	3427.8	3382.5	3332.5	3293.0	3252.5	3222.7	3207.2	3189.9	3175.5	3192.8
5°	3495.2	3437.4	3341.1	3246.7	3177.4	3115.7	3071.4	3048.3	3027.1	3012.7	3014.6
7.5°	3554.9	3461.5	3299.7	3162.0	3065.7	2999.2	2953.9	2938.5	2925.0	2921.2	2926.0
10°	3618.5	3480.8	3244.8	3061.8	2952.0	2897.1	2876.9	2887.5	2897.1	2905.8	2915.4
12.5°	3690.7	3498.1	3164.9	2944.3	2850.9	2829.7	2849.9	2896.2	2929.9	2950.1	2962.6
15°	3785.1	3513.5	3072.4	2826.8	2764.2	2788.3	2856.7	2936.6	2995.4	3032.9	3038.7
17.5°	3871.8	3512.6	2953.9	2708.3	2693.9	2764.2	2867.3	2979.9	3058.9	3111.9	3122.5
20°	3961.4	3486.6	2816.2	2592.8	2622.6	2738.2	2872.1	3007.9	3103.2	3164.9	3179.3
22.5°	4045.2	3441.3	2665.0	2487.8	2562.9	2703.5	2853.8	2991.5	3086.9	3136.9	3152.3
25°	4102.0	3362.3	2511.9	2399.2	2509.9	2661.1	2794.1	2904.8	2976.1	3001.1	3005.0
27.5°	4130.9	3259.3	2367.4	2322.1	2455.0	2591.8	2683.3	2738.2	2758.4	2756.5	2752.6
30°	4134.7	3123.5	2243.1	2259.5	2391.5	2489.7	2533.0	2522.5	2496.4	2452.1	2456.0
32.5°	4122.2	2970.3	2139.1	2199.8	2310.6	2365.5	2367.4	2316.3	2247.0	2176.7	2157.4
35°	4126.1	2820.1	2047.6	2132.4	2212.3	2236.4	2214.3	2139.1	2044.7	1954.2	1934.9
37.5°	4168.5	2689.1	1968.7	2054.4	2103.5	2109.3	2077.5	1998.5	1929.2	1840.6	1832.8
40°	4269.6	2595.7	1893.5	1966.7	1994.7	1997.5	1952.3	1896.4	1902.2	1855.0	1854.0
42.5°	4451.6	2555.2	1827.1	1875.2	1892.6	1898.3	1863.7	1828.0	1878.1	1847.3	1836.7
45°	4686.6	2564.8	1771.2	1785.7	1817.4	1844.4	1823.2	1779.9	1799.1	1665.3	1621.0
47.5°	4958.2	2626.5	1726.9	1708.6	1763.5	1814.5	1781.8	1716.3	1647.9	1515.0	1490.0
50°	5276.1	2721.8	1686.5	1632.5	1704.8	1774.1	1741.4	1647.9	1544.9	1480.3	1471.7
52.5°	5607.4	2838.4	1646.0	1548.7	1630.6	1743.3	1726.9	1632.5	1505.4	1441.8	1430.3
55°	5983.0	2955.9	1595.0	1451.4	1550.6	1728.8	1720.2	1576.7	1475.5	1439.9	1431.2
57.5°	6450.1	3089.7	1527.5	1350.3	1475.5	1676.8	1649.9	1542.9	1444.7	1417.7	1414.8
60°	7058.8	3287.2	1430.3	1242.4	1384.0	1596.9	1591.1	1493.8	1395.6	1376.3	1372.5
62.5°	7971.9	3613.7	1296.4	1134.6	1281.9	1461.1	1514.1	1427.4	1343.6	1342.6	1344.5
65°	9387.7	4104.9	1150.9	1040.2	1178.9	1346.5	1424.5	1359.0	1290.6	1309.9	1312.8
67.5°	11028.9	4512.3	1008.4	947.7	1073.9	1237.6	1343.6	1290.6	1220.3	1270.4	1271.3
70°	11575.0	4148.2	883.2	856.2	965.1	1132.6	1255.9	1215.5	1144.2	1194.3	1189.5
72°	10771.7	3348.8	802.3	786.9	883.2	1046.0	1177.9	1145.2	1074.9	1108.6	1096.0
72.5°	10518.4	3192.8	782.1	769.5	861.0	1023.8	1157.7	1127.8	1057.5	1086.4	1074.9
75°	9382.9	2772.9	672.3	675.2	751.2	915.9	1044.0	1034.4	962.2	965.1	961.2
77.5°	6805.5	2033.2	566.3	585.6	639.5	805.2	929.4	923.6	844.7	830.2	827.3
80°	3158.1	1037.3	461.3	470.0	525.9	673.2	792.7	785.0	721.4	703.1	692.5
82.5°	1081.6	493.1	346.7	352.5	407.4	542.2	687.7	682.9	629.9	594.3	572.1
85°	386.2	245.6	242.7	236.9	290.9	426.7	599.1	573.1	495.1	421.9	419.9
87.5°	125.2	105.0	125.2	124.2	169.5	288.9	435.3	370.8	359.2	298.6	292.8
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)