

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: P317394

Luminaire Tested: **GAN-SA0A-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317394  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43763 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

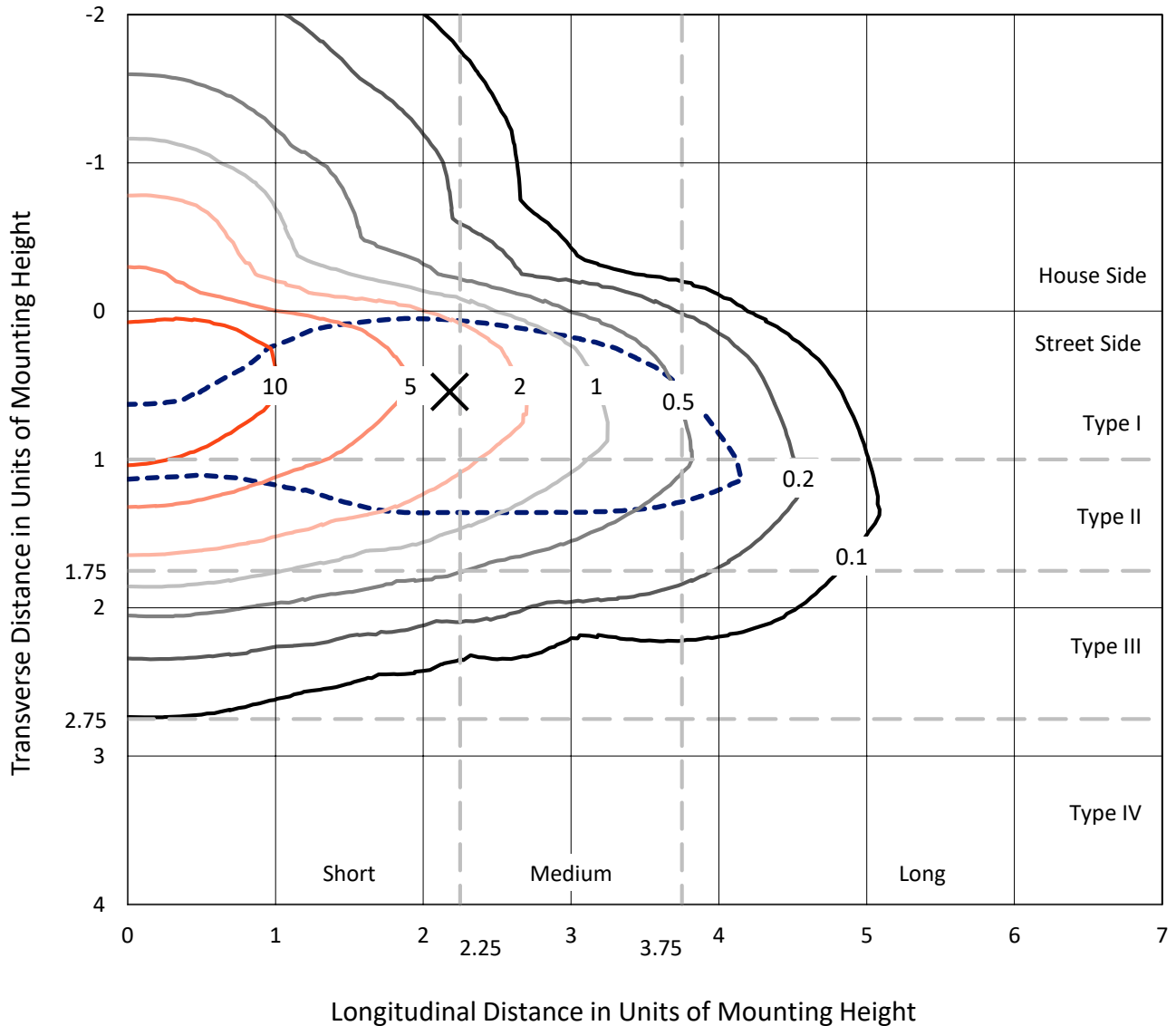
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

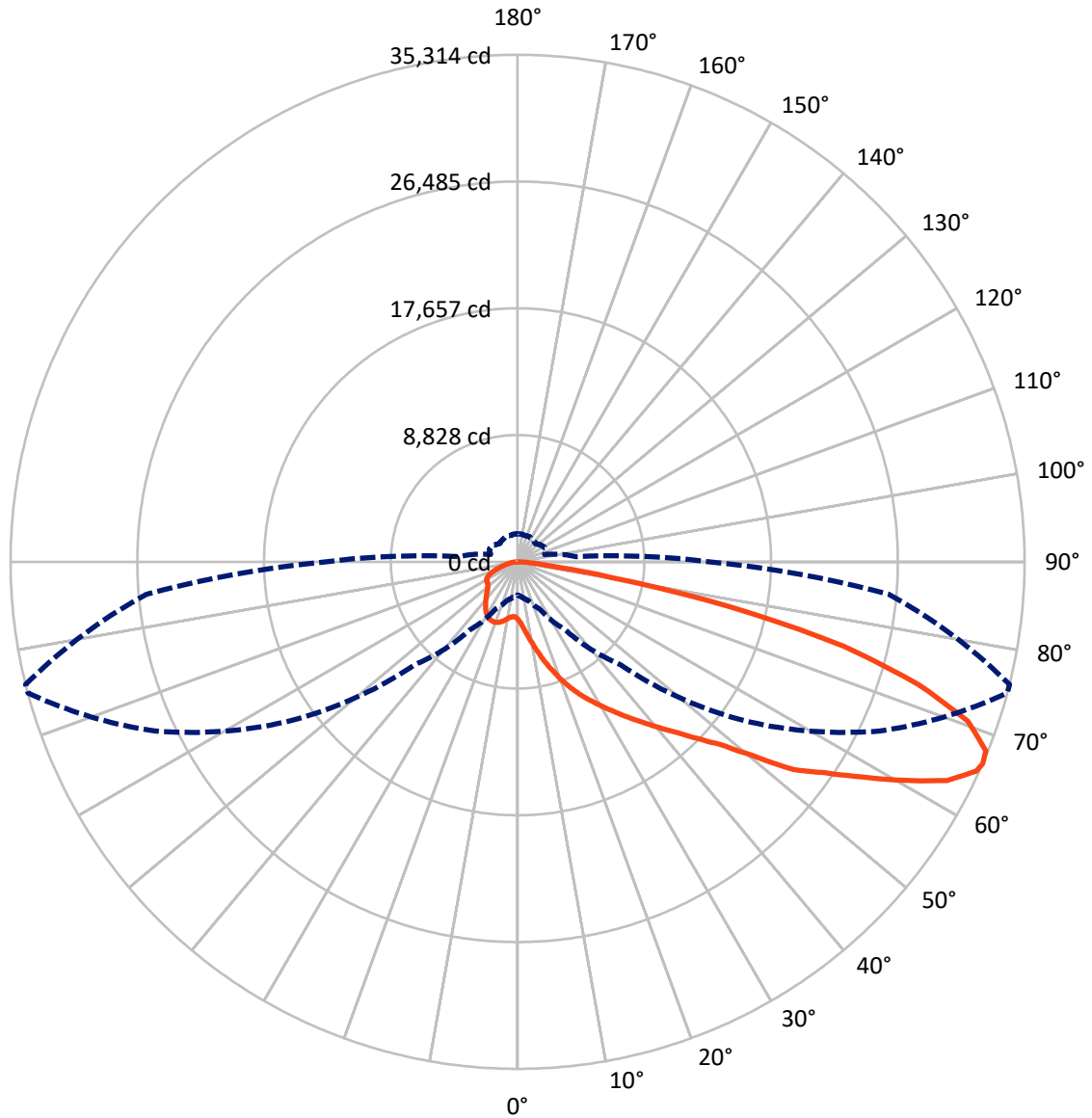
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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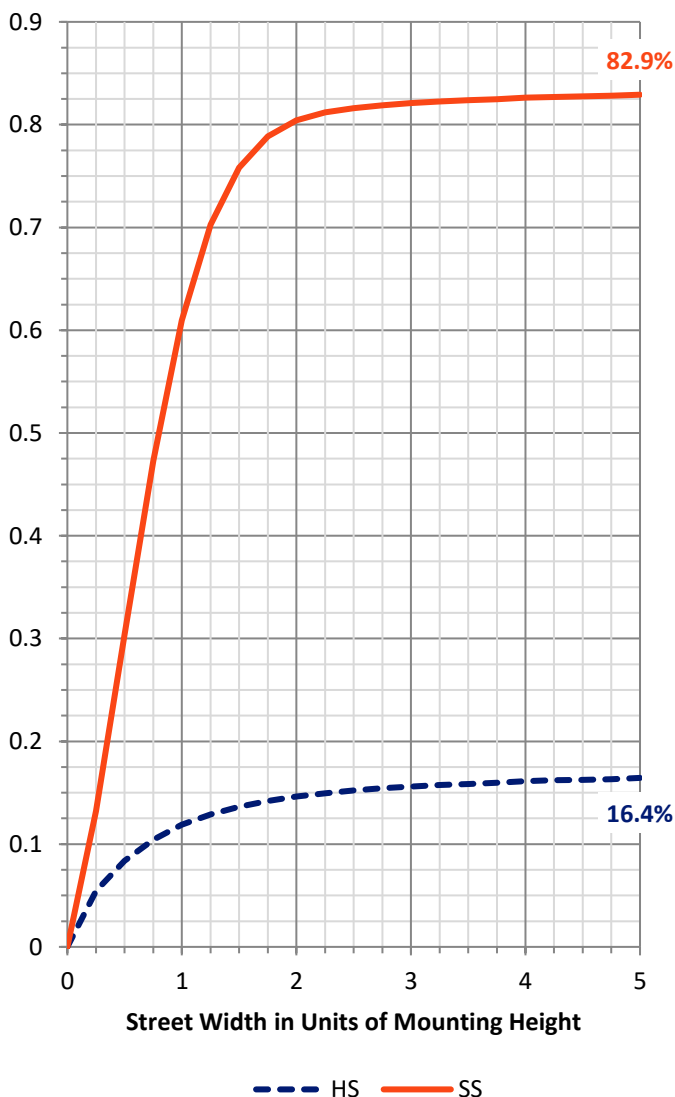
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7363.8	0.0	7363.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	36399.2	0.0	36399.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	43763.0	0.0	43763.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.3	1.1
10°-20°	1908.5	4.4
20°-30°	3708.6	8.5
30°-40°	6053.3	13.8
40°-50°	8270.3	18.9
50°-60°	9633.3	22.0
60°-70°	8636.4	19.7
70°-80°	4364.5	10.0
80°-90°	704.8	1.6
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°	43763.0	100.0
0°-180°	43763.0	100.0

**Coefficient of Utilization**



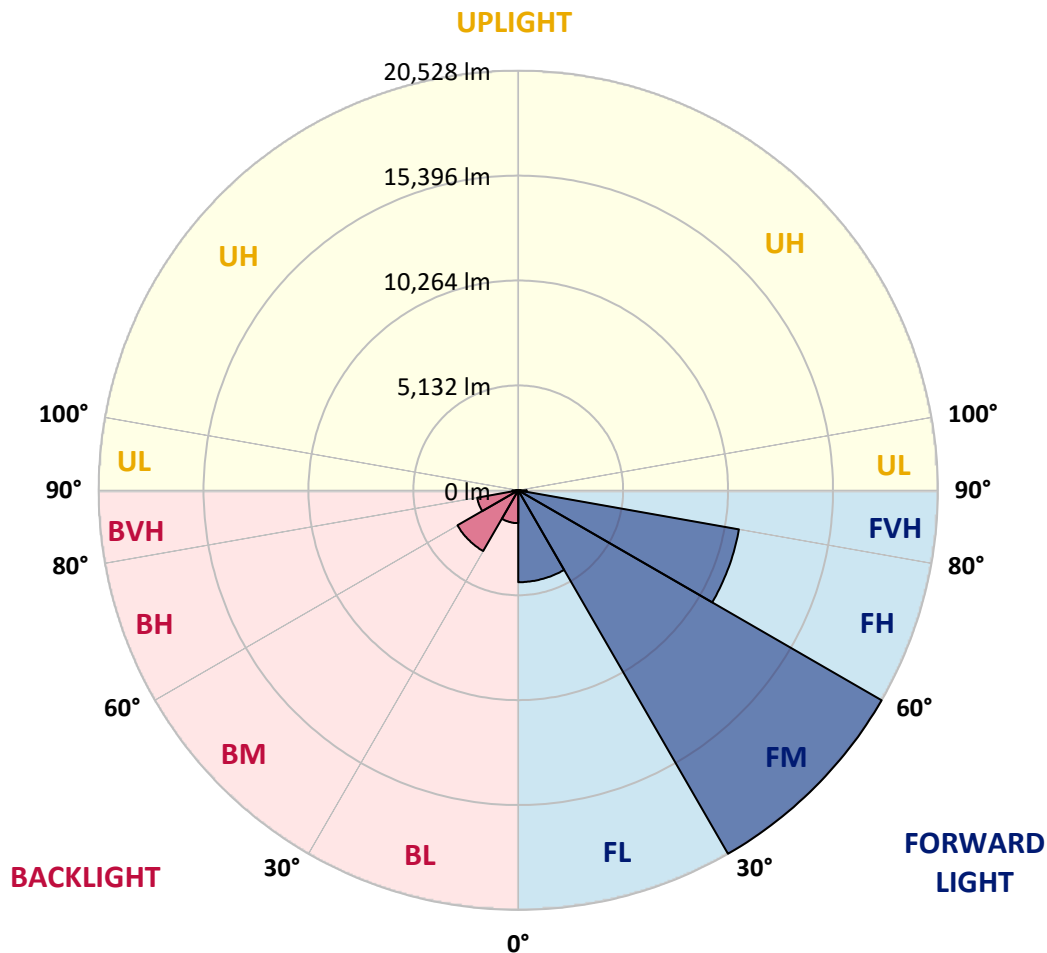
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4494.3	10.3			
FM (30°-60°)	20527.9	46.9			
FH (60°-80°)	10960.7	25.0			G4/12000
FVH (80°-90°)	416.2	1.0			G3/500
BL (0°-30°)	1606.1	3.7	B3/2500		
BM (30°-60°)	3429.0	7.8	B3/5000		
BH (60°-80°)	2040.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	288.6	0.7			G3/500
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5
2.5°	5305.5	5225.2	5217.8	5100.4	5073.7	4849.3	4684.4	4512.1	4316.0	4277.3	4122.8
5°	6814.9	6807.5	6705.0	6513.3	6363.3	5980.0	5601.1	5200.0	4760.2	4688.9	4341.2
7.5°	8172.9	8161.0	8082.2	7875.7	7658.8	7187.8	6647.0	6032.0	5318.8	5213.3	4636.9
10°	9203.9	9199.5	9172.7	9021.2	8837.0	8385.3	7788.1	6948.6	5968.1	5824.0	5006.8
12.5°	10000.3	10009.2	10027.0	9973.5	9885.9	9501.1	8889.0	7920.3	6660.4	6517.8	5418.4
15°	10539.6	10566.3	10658.5	10734.2	10780.3	10544.1	9951.3	8914.2	7436.0	7265.1	5874.5
17.5°	10811.5	10841.2	11000.2	11229.0	11439.9	11416.2	10945.2	9862.1	8180.3	8015.4	6364.8
20°	11046.2	11068.5	11246.8	11521.6	11894.6	12059.5	11795.0	10774.3	8995.9	8799.8	6884.8
22.5°	11726.7	11754.9	11808.4	11964.4	12294.2	12597.3	12469.5	11637.5	9743.3	9560.5	7378.0
25°	13040.0	13074.2	12958.3	12826.1	12888.5	13099.5	13123.2	12425.0	10501.0	10294.5	7908.4
27.5°	14622.3	14671.3	14473.7	14133.5	13836.4	13754.7	13726.4	13069.8	11224.5	10985.3	8432.9
30°	16171.9	16256.6	15999.6	15558.3	15013.1	14629.7	14346.0	13701.2	11937.6	11708.8	8927.6
32.5°	17685.8	17651.7	17278.8	16847.9	16209.1	15729.2	15042.8	14378.7	12739.9	12477.0	9419.4
35°	18722.9	18734.8	18388.6	17877.5	17268.4	16899.9	15975.8	15109.6	13558.6	13316.4	9978.0
37.5°	19605.4	19550.4	19158.2	18681.3	18156.8	17999.3	17067.8	15914.9	14445.5	14181.1	10572.3
40°	19899.5	19835.7	19578.6	19235.4	18815.0	18801.6	18272.7	16827.1	15448.4	15186.9	11242.3
42.5°	19721.3	19639.5	19534.1	19440.5	19311.2	19370.6	19404.8	17896.8	16550.8	16258.1	12017.9
45°	19063.1	18939.8	19014.1	19217.6	19498.4	19834.2	20427.0	19080.9	17785.4	17540.2	12928.6
47.5°	18051.3	17939.9	18171.7	18607.0	19370.6	20220.5	21394.2	20388.3	19259.2	19015.6	14225.6
50°	16628.0	16660.7	16992.0	17783.9	18938.3	20398.7	22585.7	22119.2	21401.6	21174.3	15995.1
52.5°	14292.5	14298.4	15231.5	16531.4	18171.7	20306.6	23246.8	24331.4	24326.9	24052.1	17679.9
55°	12123.4	12255.6	12994.0	14721.9	16929.6	19938.2	23708.9	25407.1	26248.0	25925.6	19250.3
57.5°	10004.7	10082.0	10781.8	12517.1	15157.2	18956.1	24182.8	26698.1	28461.7	28258.1	21202.5
60°	7594.9	7713.8	8437.3	10040.4	12890.0	17213.4	24227.4	28045.7	31107.7	30902.7	23382.0
62.5°	4929.6	5134.6	5812.1	7314.1	10147.4	14707.0	23193.4	28926.7	33615.6	33542.8	25316.4
65°	2833.2	2987.8	3458.7	4617.6	7000.6	11560.3	20734.5	28588.0	35159.2	35117.6	26040.0
66°	2314.7	2411.3	2772.3	3608.8	5776.4	10151.8	19305.3	27873.3	35312.3	35313.7	25956.8
67.5°	1851.2	1894.3	2056.2	2583.6	4262.5	8046.6	16751.3	26297.0	35122.1	35174.1	25420.4
70°	1531.8	1554.0	1604.6	1732.3	2326.6	4852.3	11890.1	22200.9	33213.0	33253.1	23327.1
72.5°	1374.3	1387.6	1407.0	1424.8	1641.7	2711.4	7262.1	17760.1	29119.8	29171.8	20137.3
75°	1245.0	1252.5	1249.5	1251.0	1377.2	1727.9	3752.9	13259.9	23545.5	23441.5	15426.1
77.5°	1093.5	1100.9	1086.1	1089.0	1218.3	1328.2	1867.5	9282.7	15889.6	15155.7	8691.4
80°	924.1	930.1	924.1	934.5	1060.8	1002.9	1086.1	5222.3	7025.9	6645.6	3090.3
82.5°	698.3	723.5	741.4	783.0	873.6	713.1	726.5	2033.9	2139.4	2036.9	947.9
85°	306.1	372.9	558.6	598.7	656.7	427.9	476.9	829.0	870.6	843.9	344.7
87.5°	80.2	87.7	276.3	347.7	364.0	193.1	248.1	377.4	398.2	377.4	114.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5	3996.5
2.5°	4041.1	3968.3	3837.6	3721.7	3634.0	3574.6	3515.2	3485.5	3467.6	3449.8	3452.8
5°	4170.4	4023.3	3799.0	3640.0	3550.8	3494.4	3464.7	3452.8	3445.4	3427.5	3427.5
7.5°	4365.0	4157.0	3848.0	3684.6	3614.7	3571.6	3553.8	3547.9	3539.0	3518.2	3521.1
10°	4610.1	4318.9	3950.5	3791.5	3727.6	3680.1	3654.8	3645.9	3629.6	3605.8	3608.8
12.5°	4898.4	4519.5	4085.7	3919.3	3842.0	3778.2	3736.6	3711.3	3683.1	3651.9	3653.4
15°	5213.3	4737.9	4231.3	4033.7	3928.2	3839.1	3772.2	3729.1	3684.6	3645.9	3644.4
17.5°	5532.8	4948.9	4342.7	4096.1	3953.5	3836.1	3745.5	3678.6	3623.6	3576.1	3571.6
20°	5877.5	5139.1	4405.1	4090.1	3905.9	3766.3	3645.9	3562.7	3501.8	3454.3	3446.8
22.5°	6228.1	5317.3	4415.5	4029.2	3800.4	3629.6	3503.3	3411.2	3348.8	3299.8	3281.9
25°	6549.0	5455.5	4372.4	3911.9	3653.4	3469.1	3345.8	3252.2	3201.7	3143.8	3125.9
27.5°	6841.7	5552.1	4286.3	3761.8	3488.4	3307.2	3191.3	3111.1	3056.1	3011.5	2996.7
30°	7104.6	5604.1	4145.1	3583.5	3319.1	3154.2	3056.1	3001.1	2953.6	2897.1	2886.7
32.5°	7354.2	5604.1	3963.9	3388.9	3151.2	3019.0	2961.0	2926.8	2873.4	2818.4	2803.5
35°	7603.8	5569.9	3749.9	3185.4	2996.7	2922.4	2919.4	2879.3	2797.6	2723.3	2704.0
37.5°	7866.8	5500.1	3509.2	2995.2	2870.4	2879.3	2904.6	2815.4	2699.5	2594.0	2565.8
40°	8164.0	5403.5	3259.6	2830.3	2764.9	2860.0	2864.4	2723.3	2497.5	2400.9	2375.6
42.5°	8513.1	5306.9	3027.9	2684.7	2681.7	2802.0	2788.7	2524.2	2389.0	2340.0	2326.6
45°	8972.2	5252.0	2808.0	2546.5	2616.3	2708.4	2659.4	2414.3	2357.8	2329.6	2317.7
47.5°	9695.7	5280.2	2605.9	2436.6	2551.0	2614.8	2418.7	2369.7	2329.6	2295.4	2283.5
50°	10602.0	5263.9	2442.5	2360.8	2476.7	2516.8	2310.3	2311.8	2291.0	2252.3	2234.5
52.5°	11283.9	5136.1	2337.0	2317.7	2411.3	2343.0	2241.9	2255.3	2244.9	2188.4	2169.1
55°	11942.1	5026.1	2283.5	2301.4	2363.8	2126.0	2161.7	2194.4	2184.0	2129.0	2120.1
57.5°	12760.7	5005.3	2250.8	2305.8	2323.6	2017.6	2084.4	2127.5	2120.1	2096.3	2091.9
60°	13763.6	5011.3	2221.1	2313.2	2279.1	1937.4	2011.6	2066.6	2071.1	2066.6	2063.6
62.5°	14314.8	4849.3	2146.8	2292.4	2200.3	1867.5	1935.9	2016.1	2017.6	2026.5	2025.0
65°	13846.8	4365.0	2008.7	2219.6	2068.1	1809.6	1870.5	1958.2	1935.9	1976.0	1976.0
66°	13392.2	4085.7	1940.3	2172.1	2011.6	1787.3	1849.7	1928.4	1900.2	1955.2	1955.2
67.5°	12463.6	3614.7	1817.0	2071.1	1931.4	1756.1	1825.9	1879.4	1840.8	1922.5	1916.6
70°	10766.9	2796.1	1568.9	1842.3	1799.2	1710.0	1793.2	1781.4	1724.9	1849.7	1825.9
72.5°	9077.7	2124.6	1259.9	1542.2	1598.6	1652.1	1747.2	1656.6	1585.2	1672.9	1620.9
75°	7043.7	1597.1	995.4	1199.0	1350.5	1561.5	1692.2	1512.4	1409.9	1401.0	1372.8
77.5°	3807.9	1096.5	788.9	915.2	1072.7	1448.6	1655.1	1357.9	1203.4	1167.8	1145.5
80°	1508.0	713.1	573.5	693.8	750.3	1285.1	1565.9	1178.2	992.5	956.8	922.6
82.5°	622.5	421.9	369.9	465.0	488.8	1099.4	1405.5	965.7	766.6	1060.8	1126.2
85°	267.4	231.8	219.9	240.7	276.3	771.1	1118.7	736.9	827.5	738.4	586.9
87.5°	80.2	98.1	93.6	92.1	101.0	184.2	595.8	410.1	607.7	230.3	172.3
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)