

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: P320914

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43095 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

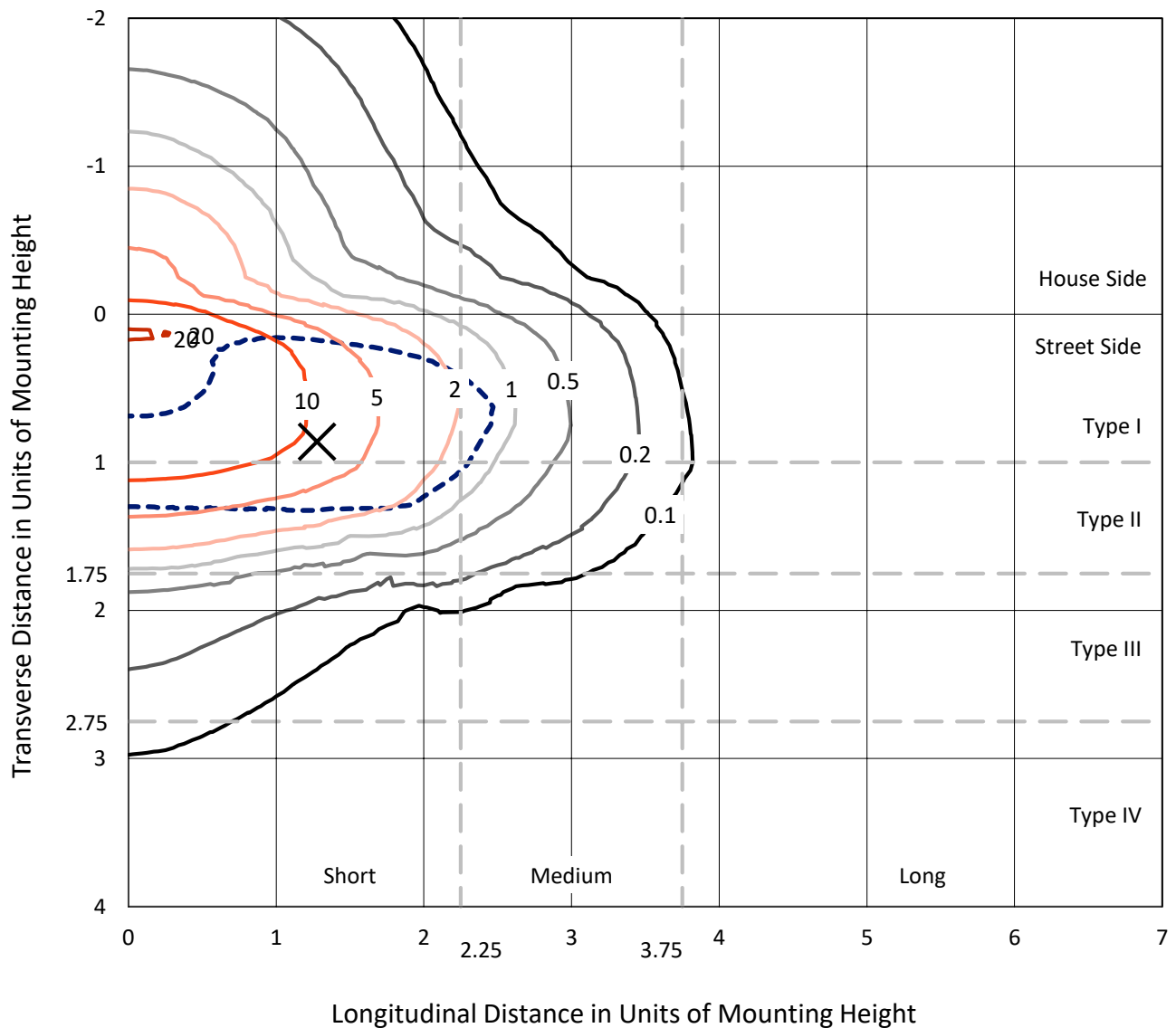
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

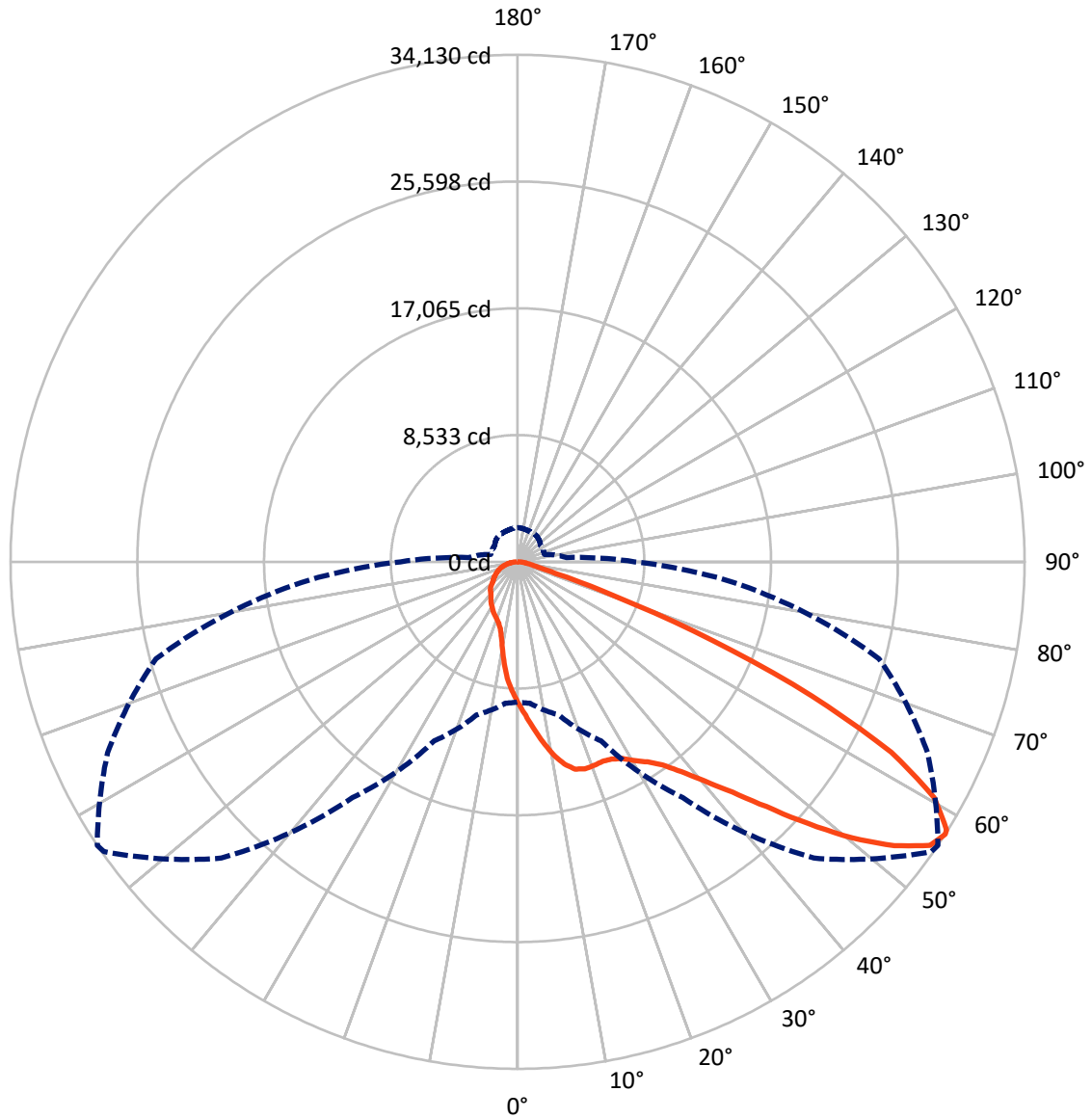
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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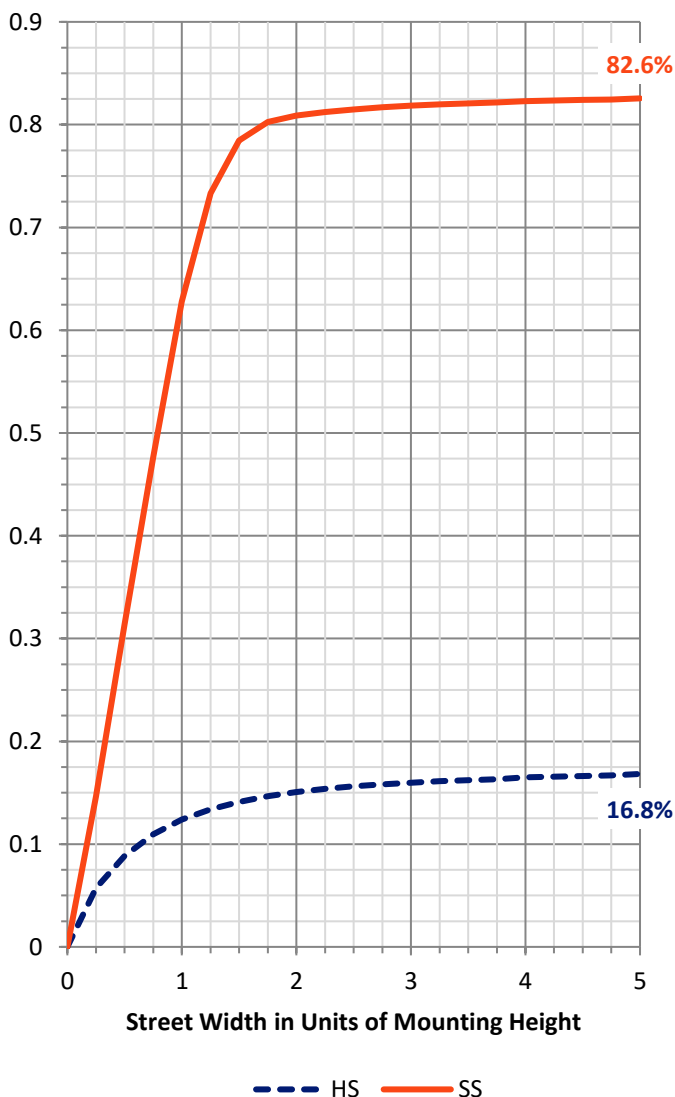
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7428.7	0.0	7428.7
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	35666.3	0.0	35666.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	43095.0	0.0	43095.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	913.1	2.1
10°-20°	2581.5	6.0
20°-30°	4204.7	9.8
30°-40°	6285.6	14.6
40°-50°	9533.9	22.1
50°-60°	10685.9	24.8
60°-70°	6311.5	14.6
70°-80°	2067.9	4.8
80°-90°	510.9	1.2
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°	43095.0	100.0
0°-180°	43095.0	100.0

**Coefficient of Utilization**

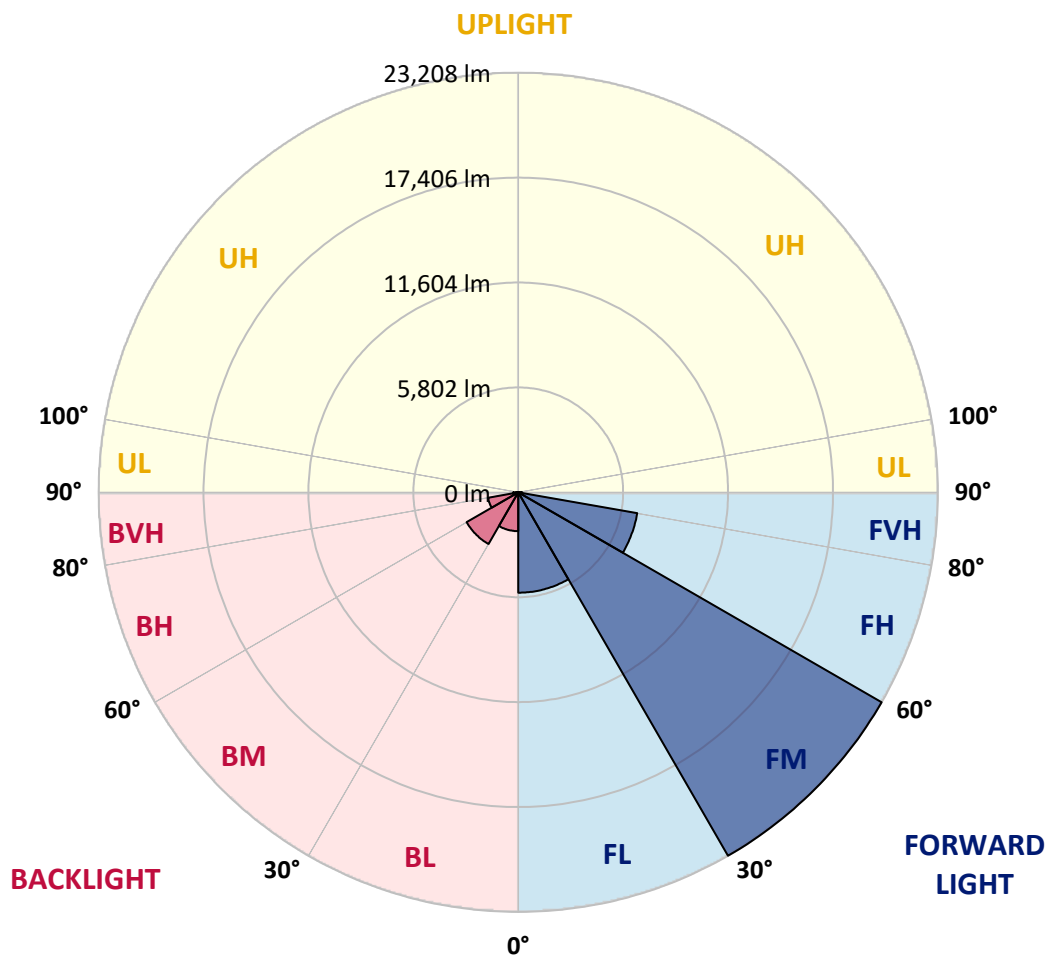


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5551.3	12.9			
FM (30°-60°)	23208.1	53.9			
FH (60°-80°)	6682.0	15.5			G3/7500
FVH (80°-90°)	225.0	0.5			G2/225
BL (0°-30°)	2148.0	5.0	B3/2500		
BM (30°-60°)	3297.3	7.7	B3/5000		
BH (60°-80°)	1697.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	285.9	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5
2.5°	10975.8	11076.6	11032.1	10878.1	10759.6	10592.3	10405.7	10349.4	10152.4	9931.7	9666.6
5°	12713.1	12662.7	12590.2	12350.2	12097.0	11802.3	11334.3	11260.2	10821.8	10322.7	9795.5
7.5°	13702.4	13698.0	13655.0	13514.3	13283.3	12898.2	12333.9	12246.6	11584.5	10781.8	9964.3
10°	13558.7	13548.4	13619.5	13766.1	13835.7	13755.7	13280.3	13192.9	12379.9	11289.8	10159.8
12.5°	12742.7	12748.6	12862.7	13170.7	13589.8	14093.4	14016.4	13973.4	13204.8	11864.5	10396.8
15°	12107.3	12120.7	12211.0	12479.1	12973.7	13887.5	14463.7	14478.5	14003.1	12498.3	10673.7
17.5°	11828.9	11857.1	11898.5	12086.6	12539.8	13477.3	14570.3	14650.3	14702.1	13155.9	10940.3
20°	11917.8	11944.4	11956.3	12076.2	12448.0	13228.5	14496.2	14639.9	15238.2	13775.0	11206.9
22.5°	12316.2	12332.5	12339.9	12371.0	12659.8	13299.6	14447.4	14598.4	15626.3	14330.4	11408.3
25°	12976.7	12964.9	12917.5	12877.5	13071.5	13581.0	14559.9	14703.6	15941.7	14833.9	11540.1
27.5°	13767.6	13752.8	13660.9	13551.3	13662.4	14019.3	14884.3	14998.3	16224.6	15304.9	11606.8
30°	14716.9	14678.4	14505.1	14374.8	14417.7	14676.9	15418.9	15522.6	16661.5	15839.5	11671.9
32.5°	15814.3	15772.9	15522.6	15306.4	15306.4	15522.6	15969.9	16055.7	17031.7	16443.8	11777.1
35°	17188.7	17136.9	16811.1	16448.2	16346.0	16455.6	16720.7	16781.5	17698.2	17205.0	11968.1
37.5°	18809.0	18739.4	18317.3	17831.5	17607.9	17601.9	17793.0	17917.4	18763.1	18204.7	12292.5
40°	20433.6	20384.8	20016.0	19633.9	19195.5	19054.8	19349.5	19388.0	20155.2	19445.8	12707.2
42.5°	21689.6	21680.7	21612.5	21662.9	21214.1	20929.8	21160.8	21191.9	21855.4	20789.1	13148.5
45°	22353.1	22367.9	22698.1	23429.8	23595.6	23388.3	23502.3	23511.2	23798.5	22144.2	13552.8
47.5°	21821.4	21898.4	22733.7	24370.2	25728.3	26417.0	26227.4	26337.0	25682.4	23308.3	13869.8
50°	19749.4	19844.2	21266.0	23951.1	26723.5	29347.9	29248.7	29223.5	27201.9	24161.4	14041.6
52.5°	17182.8	17256.9	18429.8	21772.5	25993.4	30968.2	31879.0	31748.6	28552.6	24799.7	14074.1
55°	13274.4	13389.9	14514.0	17424.2	23040.2	30349.1	33813.2	33696.2	29783.3	25134.4	14035.6
57°	9437.1	9558.5	10675.2	13298.1	19382.1	28206.0	34005.7	34130.1	30448.3	25190.7	14078.6
57.5°	8421.1	8545.5	9651.8	12199.2	18241.7	27431.5	33839.9	34047.2	30568.3	25181.8	14102.3
60°	4240.2	4287.6	4992.5	6809.7	11531.2	22176.8	31676.1	32210.7	30676.4	24746.4	14204.5
62.5°	2636.2	2602.2	2579.9	3136.8	5610.1	14706.5	27210.8	28240.1	28607.4	23691.9	13957.1
65°	2317.8	2254.1	2009.7	1965.3	2477.7	7143.0	20491.4	21772.5	24186.6	22030.2	13367.7
67.5°	2177.1	2114.9	1839.4	1673.6	1675.0	2831.7	12722.0	14164.5	18841.6	19220.7	11977.0
70°	2032.0	1975.7	1718.0	1522.5	1426.2	1568.4	5853.0	6947.5	12282.1	15107.9	10010.2
72.5°	1845.4	1806.8	1562.5	1361.1	1258.9	1174.4	2240.8	2646.6	7110.4	10146.5	6951.9
75°	1649.9	1614.3	1405.5	1213.0	1088.6	924.2	1261.8	1359.6	3612.2	5191.0	3422.6
77.5°	1435.1	1414.4	1250.0	1072.3	973.0	765.7	893.1	940.4	1549.1	2226.0	1716.5
80°	1141.9	1181.9	1093.0	955.3	863.4	613.1	632.4	663.5	901.9	1087.1	974.5
82.5°	743.5	813.1	856.0	776.1	710.9	482.8	454.7	468.0	588.0	663.5	423.6
85°	309.5	348.0	562.8	508.0	472.4	352.5	305.1	311.0	364.3	377.7	173.3
87.5°	137.7	146.6	247.3	232.5	199.9	121.4	130.3	142.2	194.0	183.6	66.6
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°	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5	9558.5
2.5°	9567.4	9443.0	9229.7	8994.2	8801.7	8647.7	8492.2	8385.5	8261.1	8194.5	8160.4
5°	9574.8	9330.4	8881.7	8421.1	8009.4	7633.2	7274.8	6999.3	6741.6	6602.4	6563.9
7.5°	9605.9	9238.6	8512.9	7754.6	7023.0	6355.1	5839.7	5516.8	5284.3	5180.6	5151.0
10°	9631.1	9130.5	8056.8	6934.1	5938.9	5262.1	4862.2	4681.5	4601.5	4588.2	4574.9
12.5°	9690.3	9019.4	7576.9	6078.1	5096.2	4628.2	4489.0	4477.1	4499.3	4531.9	4531.9
15°	9783.6	8909.8	7028.9	5343.5	4560.1	4395.7	4423.8	4489.0	4549.7	4600.1	4607.5
17.5°	9851.8	8775.1	6439.5	4755.6	4274.2	4318.7	4419.4	4511.2	4573.4	4622.3	4626.7
20°	9900.6	8566.2	5810.0	4306.8	4109.8	4247.6	4373.5	4454.9	4497.9	4546.7	4554.1
22.5°	9875.4	8286.3	5251.7	3985.4	3976.5	4143.9	4263.9	4361.6	4329.0	4281.6	4312.7
25°	9754.0	7901.2	4677.1	3745.5	3835.8	4004.7	4152.8	4087.6	3978.0	3957.3	3969.1
27.5°	9537.8	7409.5	4145.4	3523.3	3672.9	3875.8	3866.9	3801.8	3763.3	3736.6	3752.9
30°	9305.3	6876.4	3680.3	3329.3	3492.2	3659.6	3625.5	3624.1	3585.6	3542.6	3563.3
32.5°	9075.7	6340.3	3311.6	3169.4	3356.0	3378.2	3452.3	3474.5	3398.9	3308.6	3302.7
35°	8875.8	5833.7	3031.7	3024.2	3191.6	3194.6	3302.7	3271.6	3083.5	2990.2	2990.2
37.5°	8726.2	5328.7	2818.4	2893.9	2975.4	3052.4	3107.2	2978.3	2947.2	2895.4	2893.9
40°	8661.0	4884.4	2685.1	2794.7	2822.8	2920.6	2779.9	2830.2	2845.0	2818.4	2818.4
42.5°	8592.9	4497.9	2569.6	2719.2	2714.7	2701.4	2630.3	2695.5	2754.7	2756.2	2751.7
45°	8524.8	4164.6	2467.4	2557.7	2619.9	2476.3	2489.6	2559.2	2642.1	2671.8	2671.8
47.5°	8449.2	3901.0	2374.1	2387.4	2483.7	2387.4	2377.0	2430.4	2528.1	2575.5	2585.9
50°	8283.4	3664.0	2267.4	2237.8	2264.5	2297.1	2305.9	2331.1	2439.2	2514.8	2532.5
52.5°	8053.8	3452.3	2131.2	2100.1	2100.1	2223.0	2264.5	2271.9	2363.7	2454.1	2471.8
55°	7862.7	3317.5	1990.5	1984.6	1978.6	2144.5	2215.6	2227.5	2291.1	2362.2	2371.1
57°	7876.1	3307.1	1882.4	1888.3	1886.8	2064.5	2169.7	2194.9	2227.5	2288.2	2298.5
57.5°	7883.5	3314.5	1858.7	1861.6	1860.2	2042.3	2156.4	2184.5	2209.7	2273.4	2283.7
60°	7994.6	3333.8	1762.4	1729.8	1737.2	1923.8	2080.8	2116.4	2132.7	2217.1	2230.4
62.5°	7830.2	3247.9	1685.4	1606.9	1606.9	1799.4	1975.7	2032.0	2057.1	2171.2	2193.4
65°	7353.3	3006.5	1595.1	1467.7	1482.5	1675.0	1849.8	1941.6	1980.1	2122.3	2146.0
67.5°	6617.2	2726.6	1498.8	1343.3	1358.1	1544.7	1719.5	1818.7	1879.4	2069.0	2088.2
70°	5659.0	2384.4	1368.5	1211.5	1229.2	1402.5	1565.4	1678.0	1768.3	2018.6	2024.6
72.5°	4172.0	1954.9	1186.3	1066.3	1085.6	1236.7	1409.9	1540.3	1661.7	1892.7	1889.8
75°	2480.7	1528.4	984.9	919.7	933.0	1073.7	1269.2	1427.7	1609.9	1843.9	1872.0
77.5°	1504.7	1150.8	802.7	770.1	786.4	930.1	1168.5	1337.4	1587.7	1738.7	1729.8
80°	909.3	822.0	641.3	620.5	636.8	795.3	1081.1	1269.2	1387.7	1485.5	1485.5
82.5°	475.4	502.1	471.0	454.7	476.9	645.7	983.4	1107.8	1226.3	1053.0	983.4
85°	194.0	262.1	285.8	284.4	297.7	447.3	848.6	947.9	790.9	750.9	768.6
87.5°	65.2	111.1	139.2	120.0	125.9	281.4	588.0	457.6	543.5	379.1	359.9
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)