

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: P317483

Luminaire Tested: **GAN-SA9B-750-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317483  
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-SA9B-750-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53223 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

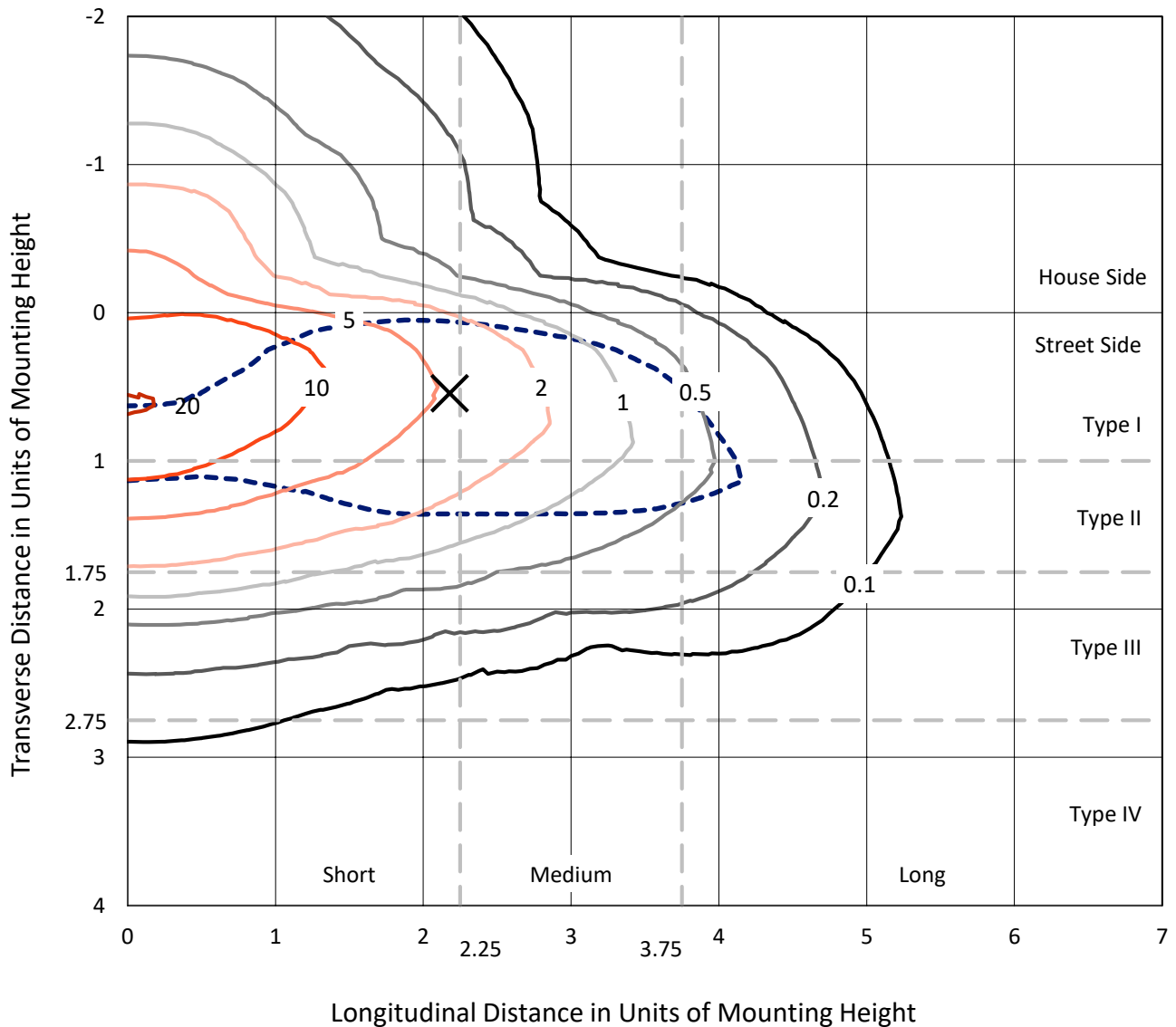
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

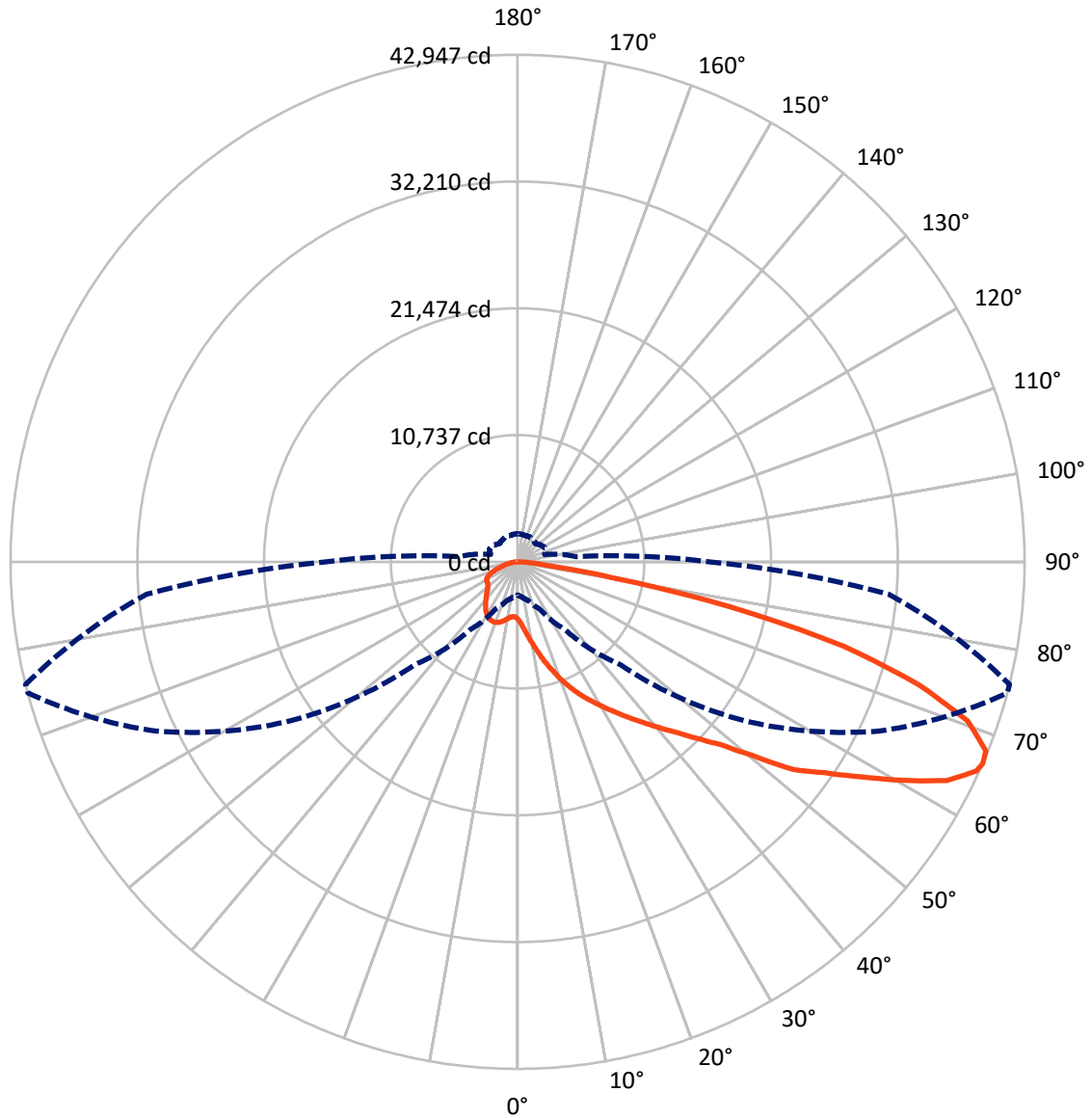
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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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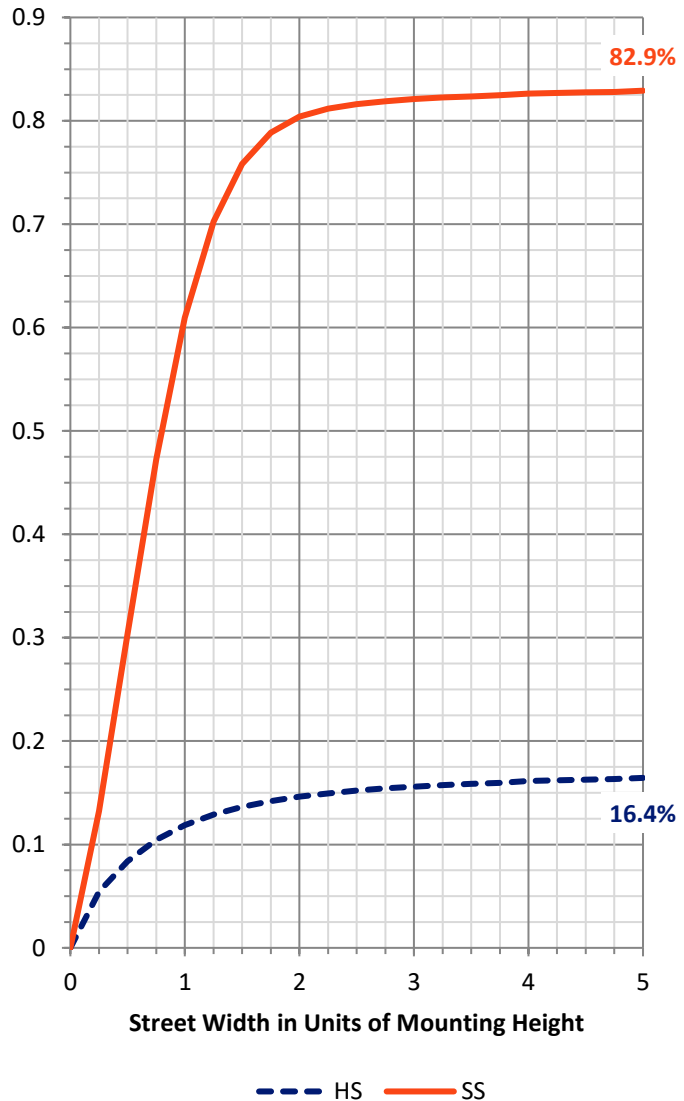
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8955.6	0.0	8955.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	44267.4	0.0	44267.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	53223.0	0.0	53223.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	587.8	1.1
10°-20°	2321.0	4.4
20°-30°	4510.3	8.5
30°-40°	7361.9	13.8
40°-50°	10058.1	18.9
50°-60°	11715.6	22.0
60°-70°	10503.3	19.7
70°-80°	5307.9	10.0
80°-90°	857.2	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°	53223.0	100.0
0°-180°	53223.0	100.0

**Coefficient of Utilization**

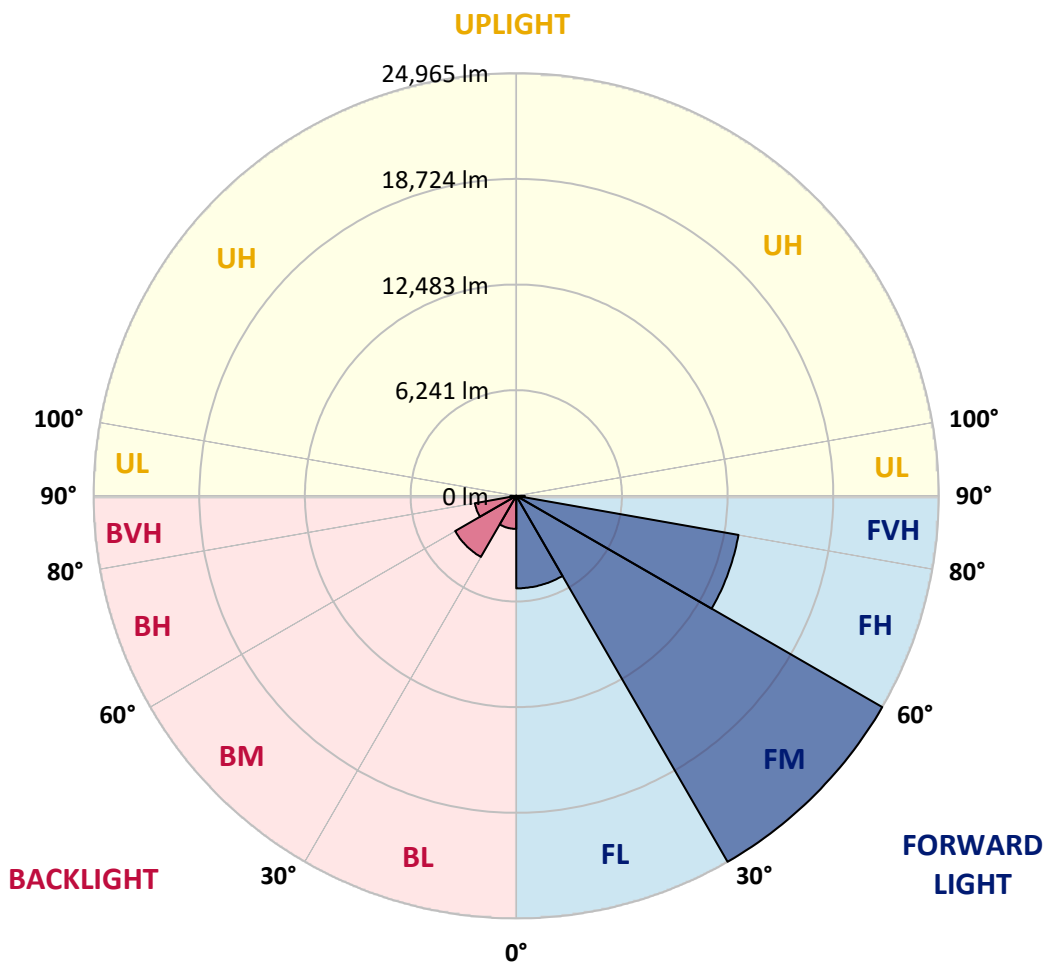


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5465.9	10.3			
FM (30°-60°)	24965.3	46.9			
FH (60°-80°)	13330.1	25.0			G5
FVH (80°-90°)	506.2	1.0			G4/750
BL (0°-30°)	1953.3	3.7	B3/2500		
BM (30°-60°)	4170.3	7.8	B3/5000		
BH (60°-80°)	2481.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	351.0	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-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5
2.5°	6452.3	6354.7	6345.7	6203.0	6170.4	5897.6	5697.0	5487.4	5248.9	5202.0	5014.0
5°	8288.1	8279.0	8154.4	7921.3	7738.8	7272.6	6811.9	6324.0	5789.2	5702.5	5279.7
7.5°	9939.6	9925.1	9829.3	9578.2	9314.4	8741.6	8083.9	7335.9	6468.6	6340.3	5639.2
10°	11193.5	11188.1	11155.6	10971.3	10747.2	10197.9	9471.6	8450.7	7258.2	7082.9	6089.1
12.5°	12162.0	12172.8	12194.5	12129.5	12022.9	11554.9	10810.5	9632.4	8100.2	7926.7	6589.6
15°	12817.9	12850.4	12962.4	13054.6	13110.6	12823.3	12102.4	10841.2	9043.3	8835.6	7144.3
17.5°	13148.5	13184.7	13378.0	13656.3	13912.8	13883.9	13311.2	11994.0	9948.6	9748.0	7740.6
20°	13434.0	13461.1	13677.9	14012.2	14465.7	14666.3	14344.7	13103.4	10940.6	10702.0	8373.0
22.5°	14261.6	14295.9	14360.9	14550.7	14951.8	15320.4	15165.0	14153.2	11849.4	11627.2	8972.9
25°	15858.8	15900.4	15759.5	15598.6	15674.5	15931.1	15960.0	15110.8	12770.9	12519.8	9617.9
27.5°	17783.1	17842.8	17602.5	17188.7	16827.3	16727.9	16693.6	15895.0	13650.8	13359.9	10255.8
30°	19667.7	19770.7	19458.1	18921.5	18258.3	17792.2	17447.1	16662.9	14518.1	14239.9	10857.4
32.5°	21508.9	21467.3	21013.8	20489.8	19712.9	19129.3	18294.5	17486.8	15493.8	15174.0	11455.5
35°	22770.1	22784.5	22363.5	21742.0	21001.2	20553.1	19429.2	18375.8	16489.4	16194.9	12134.9
37.5°	23843.4	23776.5	23299.5	22719.5	22081.7	21890.1	20757.2	19355.1	17568.1	17246.5	12857.6
40°	24201.1	24123.4	23810.8	23393.4	22882.1	22865.8	22222.6	20464.5	18787.8	18469.7	13672.5
42.5°	23984.3	23884.9	23756.6	23642.8	23485.6	23557.9	23599.4	21765.5	20128.4	19772.5	14615.7
45°	23183.9	23033.9	23124.2	23371.8	23713.3	24121.6	24842.6	23205.5	21630.0	21331.8	15723.3
47.5°	21953.4	21817.9	22099.7	22629.1	23557.9	24591.4	26018.8	24795.6	23422.4	23126.0	17300.7
50°	20222.4	20262.2	20665.1	21628.1	23032.1	24808.2	27467.9	26900.6	26027.9	25751.4	19452.7
52.5°	17382.0	17389.2	18524.0	20105.0	22099.7	24696.2	28272.0	29591.0	29585.6	29251.3	21501.7
55°	14744.0	14904.8	15802.8	17904.2	20589.2	24248.1	28833.9	30899.2	31921.8	31529.8	23411.5
57.5°	12167.4	12261.4	13112.4	15222.8	18433.6	23053.8	29410.3	32469.3	34614.1	34366.5	25785.7
60°	9236.7	9381.2	10261.2	12210.8	15676.3	20934.3	29464.5	34108.1	37832.1	37582.7	28436.4
62.5°	5995.2	6244.5	7068.4	8895.2	12340.9	17886.1	28206.9	35179.6	40882.1	40793.5	30788.9
65°	3445.7	3633.6	4206.4	5615.7	8513.9	14059.2	25216.6	34767.6	42759.4	42708.8	31668.9
66°	2815.1	2932.5	3371.6	4388.9	7025.1	12346.3	23478.4	33898.5	42945.5	42947.3	31567.7
67.5°	2251.4	2303.7	2500.7	3142.1	5183.9	9786.0	20372.4	31981.5	42714.2	42777.5	30915.4
70°	1862.9	1890.0	1951.4	2106.8	2829.5	5901.2	14460.3	26999.9	40392.4	40441.2	28369.5
72.5°	1671.3	1687.6	1711.1	1732.8	1996.6	3297.5	8831.9	21599.2	35414.5	35477.7	24490.2
75°	1514.2	1523.2	1519.6	1521.4	1675.0	2101.4	4564.1	16126.2	28635.2	28508.7	18760.7
77.5°	1329.9	1338.9	1320.8	1324.4	1481.6	1615.3	2271.2	11289.3	19324.4	18431.8	10570.1
80°	1123.9	1131.1	1123.9	1136.5	1290.1	1219.6	1320.8	6351.1	8544.7	8082.1	3758.3
82.5°	849.2	879.9	901.6	952.2	1062.4	867.3	883.6	2473.6	2601.9	2477.2	1152.8
85°	372.2	453.5	679.4	728.2	798.6	520.4	580.0	1008.2	1058.8	1026.3	419.2
87.5°	97.6	106.6	336.1	422.8	442.7	234.9	301.7	458.9	484.2	458.9	139.1
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°	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5	4860.5
2.5°	4914.7	4826.1	4667.1	4526.2	4419.6	4347.3	4275.0	4238.9	4217.2	4195.5	4199.1
5°	5071.9	4893.0	4620.1	4426.8	4318.4	4249.7	4213.6	4199.1	4190.1	4168.4	4168.4
7.5°	5308.6	5055.6	4679.8	4481.0	4396.1	4343.7	4322.0	4314.8	4303.9	4278.7	4282.3
10°	5606.7	5252.5	4804.4	4611.1	4533.4	4475.6	4444.9	4434.0	4414.2	4385.3	4388.9
12.5°	5957.2	5496.5	4968.9	4766.5	4672.5	4594.9	4544.3	4513.5	4479.2	4441.3	4443.1
15°	6340.3	5762.1	5145.9	4905.6	4777.3	4668.9	4587.6	4535.2	4481.0	4434.0	4432.2
17.5°	6728.8	6018.7	5281.5	4981.5	4808.1	4665.3	4555.1	4473.8	4406.9	4349.1	4343.7
20°	7147.9	6249.9	5357.3	4974.3	4750.2	4580.4	4434.0	4332.9	4258.8	4201.0	4191.9
22.5°	7574.4	6466.8	5370.0	4900.2	4622.0	4414.2	4260.6	4148.6	4072.7	4013.0	3991.4
25°	7964.7	6634.8	5317.6	4757.5	4443.1	4219.0	4069.1	3955.2	3893.8	3823.3	3801.6
27.5°	8320.6	6752.2	5212.8	4575.0	4242.5	4022.1	3881.1	3783.6	3716.7	3662.5	3644.4
30°	8640.4	6815.5	5041.1	4358.2	4036.5	3836.0	3716.7	3649.9	3592.0	3523.4	3510.7
32.5°	8944.0	6815.5	4820.7	4121.5	3832.4	3671.5	3601.1	3559.5	3494.5	3427.6	3409.5
35°	9247.5	6773.9	4560.5	3873.9	3644.4	3554.1	3550.5	3501.7	3402.3	3312.0	3288.5
37.5°	9567.3	6689.0	4267.8	3642.6	3490.9	3501.7	3532.4	3424.0	3283.1	3154.8	3120.5
40°	9928.7	6571.6	3964.3	3442.1	3362.6	3478.2	3483.6	3312.0	3037.3	2919.9	2889.2
42.5°	10353.3	6454.1	3682.4	3265.0	3261.4	3407.7	3391.5	3069.9	2905.4	2845.8	2829.5
45°	10911.6	6387.3	3415.0	3097.0	3181.9	3293.9	3234.3	2936.2	2867.5	2833.2	2818.7
47.5°	11791.6	6421.6	3169.2	2963.3	3102.4	3180.1	2941.6	2881.9	2833.2	2791.6	2777.1
50°	12893.8	6401.7	2970.5	2871.1	3012.0	3060.8	2809.7	2811.5	2786.2	2739.2	2717.5
52.5°	13723.1	6246.3	2842.2	2818.7	2932.5	2849.4	2726.6	2742.8	2730.2	2661.5	2638.0
55°	14523.6	6112.6	2777.1	2798.8	2874.7	2585.6	2629.0	2668.7	2656.1	2589.2	2578.4
57.5°	15519.1	6087.3	2737.4	2804.3	2825.9	2453.7	2535.0	2587.4	2578.4	2549.5	2544.1
60°	16738.8	6094.5	2701.3	2813.3	2771.7	2356.1	2446.5	2513.3	2518.8	2513.3	2509.7
62.5°	17409.1	5897.6	2610.9	2788.0	2676.0	2271.2	2354.3	2451.9	2453.7	2464.6	2462.8
65°	16840.0	5308.6	2442.9	2699.5	2515.2	2200.8	2274.8	2381.4	2354.3	2403.1	2403.1
66°	16287.1	4968.9	2359.8	2641.6	2446.5	2173.7	2249.5	2345.3	2311.0	2377.8	2377.8
67.5°	15157.8	4396.1	2209.8	2518.8	2348.9	2135.7	2220.6	2285.7	2238.7	2338.1	2330.9
70°	13094.3	3400.5	1908.0	2240.5	2188.1	2079.7	2180.9	2166.4	2097.8	2249.5	2220.6
72.5°	11039.9	2583.8	1532.2	1875.5	1944.2	2009.2	2124.9	2014.7	1927.9	2034.5	1971.3
75°	8566.3	1942.4	1210.6	1458.1	1642.4	1899.0	2058.0	1839.4	1714.7	1703.9	1669.5
77.5°	4631.0	1333.5	959.4	1113.0	1304.6	1761.7	2012.8	1651.5	1463.6	1420.2	1393.1
80°	1834.0	867.3	697.4	843.8	912.5	1562.9	1904.4	1432.8	1207.0	1163.6	1122.1
82.5°	757.1	513.1	449.9	565.5	594.5	1337.1	1709.3	1174.5	932.3	1290.1	1369.6
85°	325.2	281.9	267.4	292.7	336.1	937.8	1360.6	896.2	1006.4	898.0	713.7
87.5°	97.6	119.3	113.8	112.0	122.9	224.1	724.6	498.7	739.0	280.1	209.6
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)