

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: P317412

Luminaire Tested: **GAN-SA8C-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317412  
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-SA8C-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53783 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

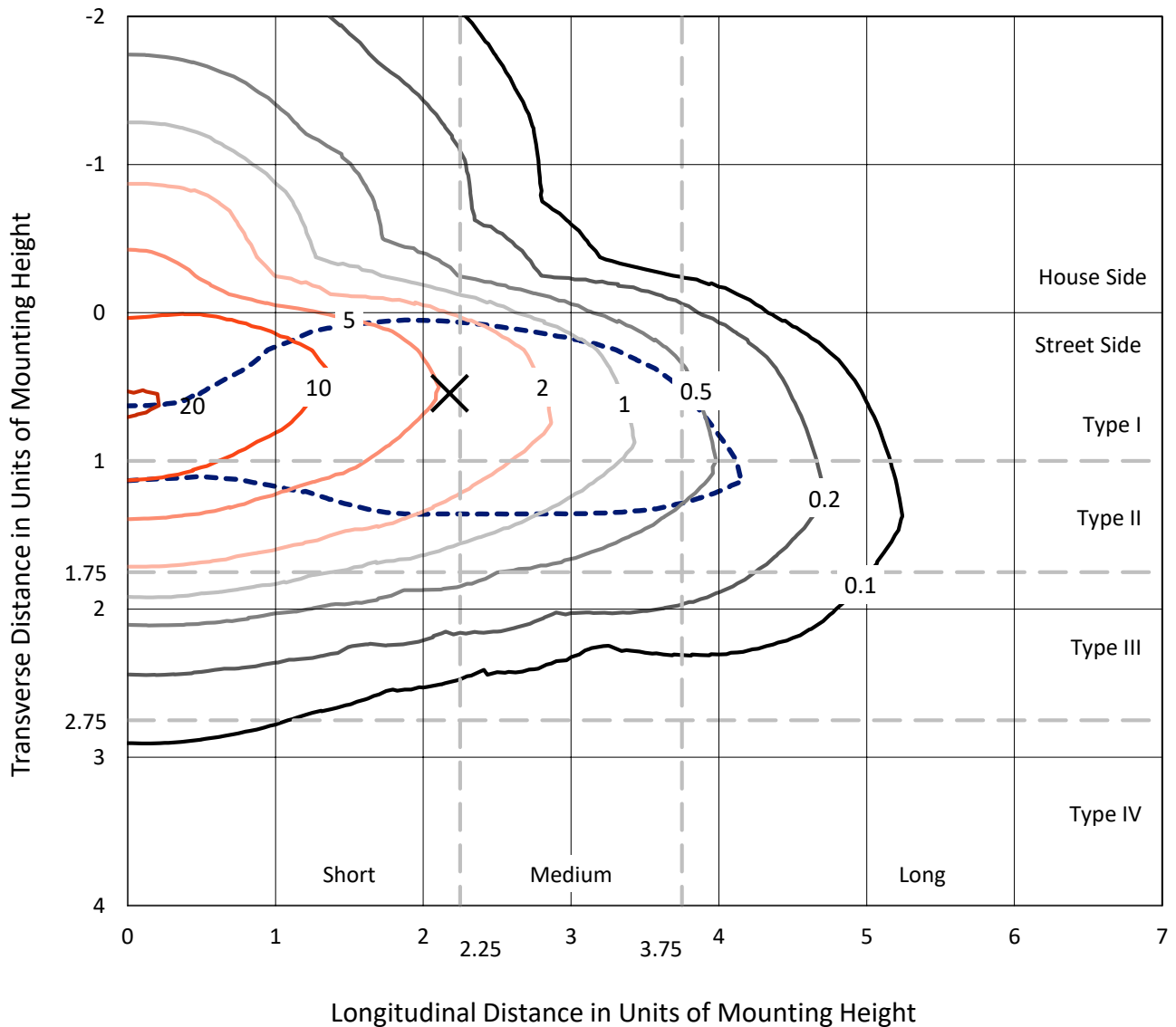
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

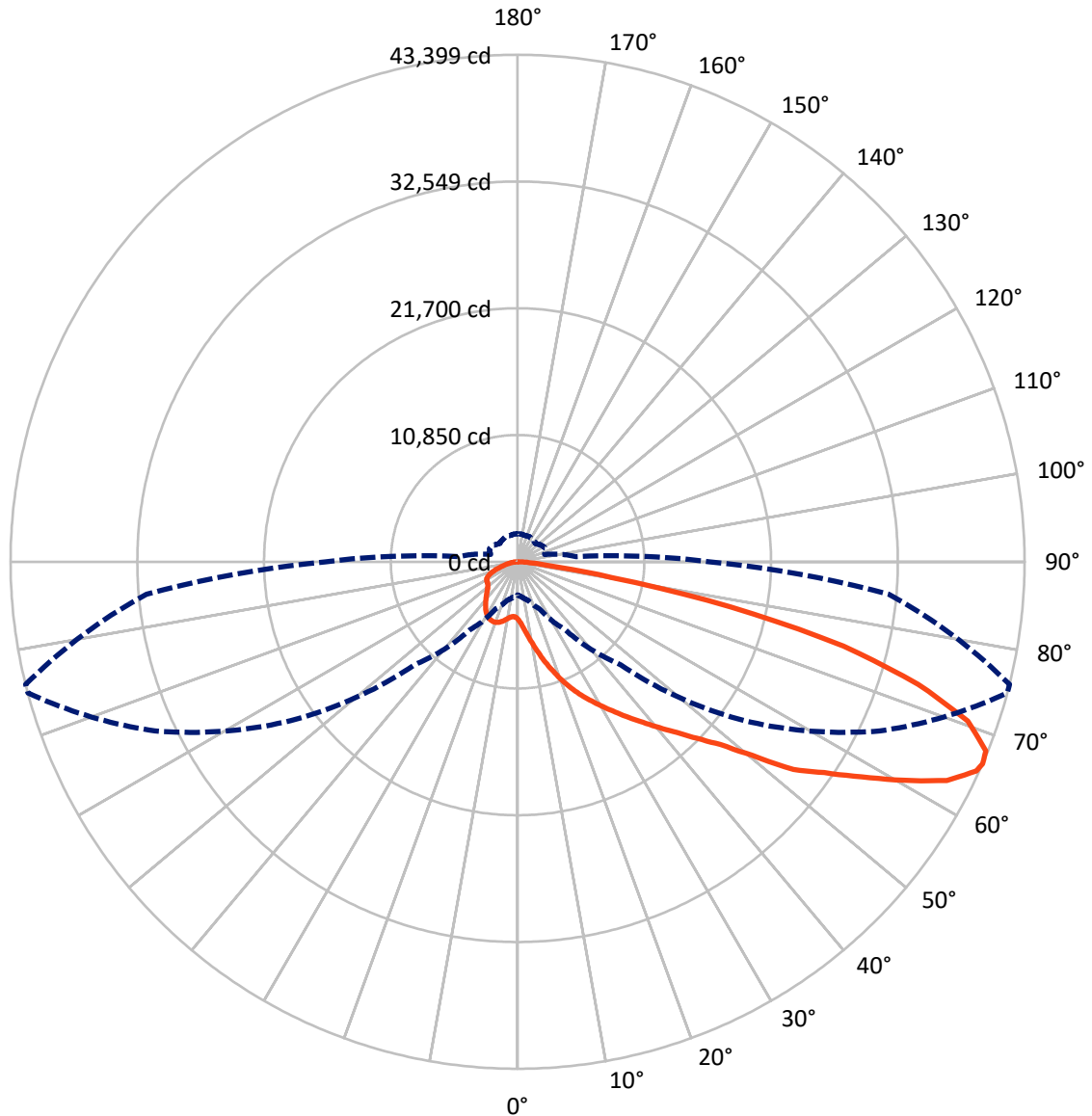
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 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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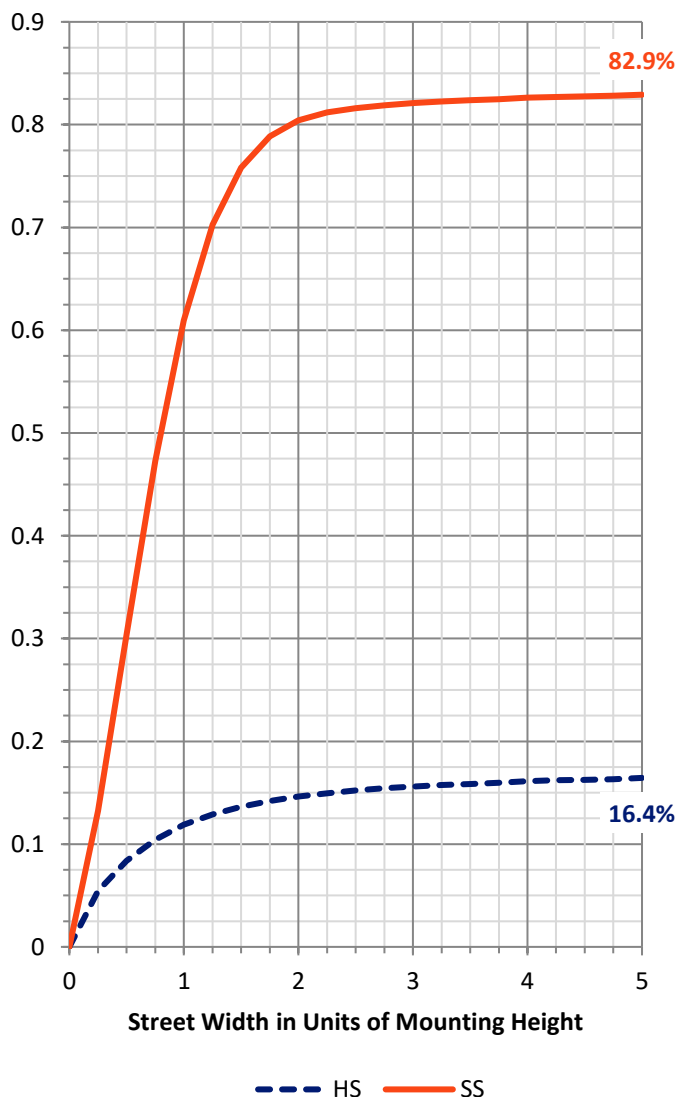
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9049.8	0.0	9049.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	44733.2	0.0	44733.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	53783.0	0.0	53783.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.9	1.1
10°-20°	2345.5	4.4
20°-30°	4557.8	8.5
30°-40°	7439.3	13.8
40°-50°	10163.9	18.9
50°-60°	11838.9	22.0
60°-70°	10613.8	19.7
70°-80°	5363.8	10.0
80°-90°	866.2	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°	53783.0	100.0
0°-180°	53783.0	100.0

**Coefficient of Utilization**

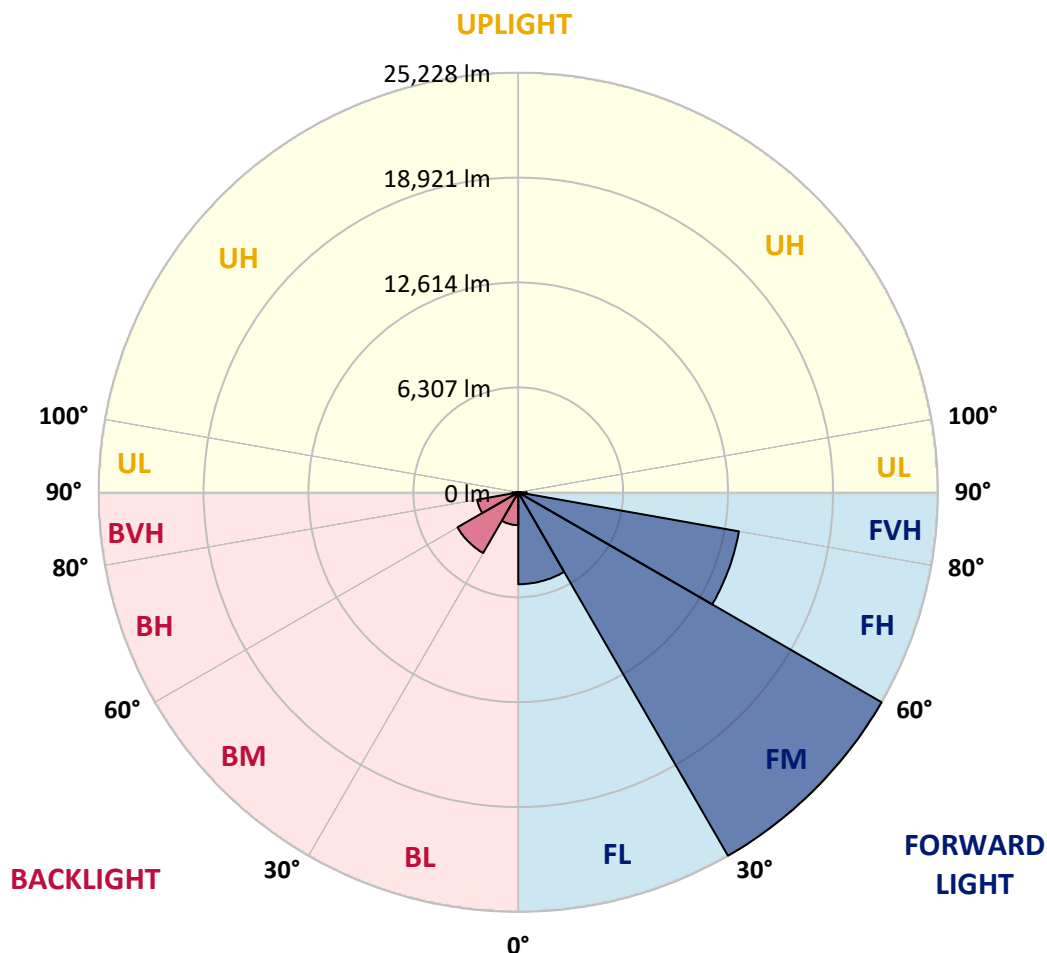


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5523.4	10.3			
FM (30°-60°)	25228.0	46.9			
FH (60°-80°)	13470.3	25.0			G5
FVH (80°-90°)	511.5	1.0			G4/750
BL (0°-30°)	1973.8	3.7	B3/2500		
BM (30°-60°)	4214.2	7.8	B3/5000		
BH (60°-80°)	2507.2	4.7	B4/5000		G4/5000
BVH (80°-90°)	354.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6
2.5°	6520.2	6421.6	6412.5	6268.2	6235.4	5959.7	5757.0	5545.2	5304.2	5256.7	5066.8
5°	8375.3	8366.2	8240.2	8004.6	7820.2	7349.1	6883.5	6390.6	5850.1	5762.5	5335.2
7.5°	10044.1	10029.5	9932.8	9679.0	9412.4	8833.6	8169.0	7413.0	6536.6	6407.0	5698.6
10°	11311.3	11305.8	11272.9	11086.7	10860.3	10305.2	9571.2	8539.6	7334.5	7157.4	6153.2
12.5°	12290.0	12300.9	12322.8	12257.1	12149.4	11676.5	10924.2	9733.7	8185.4	8010.1	6659.0
15°	12952.7	12985.6	13098.8	13191.9	13248.5	12958.2	12229.7	10955.2	9138.5	8928.5	7219.5
17.5°	13286.9	13323.4	13518.8	13800.0	14059.2	14030.0	13451.2	12120.2	10053.3	9850.6	7822.0
20°	13575.4	13602.8	13821.9	14159.7	14617.9	14820.6	14495.6	13241.2	11055.7	10814.7	8461.1
22.5°	14411.6	14446.3	14512.0	14703.8	15109.1	15481.6	15324.6	14302.1	11974.1	11749.5	9067.3
25°	16025.7	16067.7	15925.3	15762.8	15839.5	16098.7	16127.9	15269.8	12905.3	12651.5	9719.1
27.5°	17970.3	18030.5	17787.7	17369.5	17004.4	16903.9	16869.2	16062.2	13794.5	13500.5	10363.7
30°	19874.6	19978.7	19662.8	19120.6	18450.5	17979.4	17630.6	16838.2	14670.9	14389.7	10971.7
32.5°	21735.2	21693.2	21234.9	20705.4	19920.3	19330.5	18487.0	17670.8	15656.9	15333.7	11576.0
35°	23009.7	23024.3	22598.8	21970.7	21222.1	20769.3	19633.6	18569.1	16662.9	16365.3	12262.6
37.5°	24094.2	24026.7	23544.6	22958.5	22314.0	22120.5	20975.6	19558.8	17753.0	17428.0	12992.9
40°	24455.8	24377.2	24061.4	23639.6	23122.9	23106.4	22456.4	20679.8	18985.4	18664.1	13816.4
42.5°	24236.7	24136.2	24006.6	23891.6	23732.7	23805.7	23847.7	21994.5	20340.2	19980.5	14769.5
45°	23427.8	23276.2	23367.5	23617.7	23962.8	24375.4	25103.9	23449.7	21857.5	21556.3	15888.8
47.5°	22184.4	22047.4	22332.3	22867.2	23805.7	24850.1	26292.6	25056.5	23668.8	23369.4	17482.7
50°	20435.2	20475.4	20882.5	21855.7	23274.4	25069.2	27756.9	27183.6	26301.7	26022.4	19657.4
52.5°	17564.9	17572.2	18718.9	20316.5	22332.3	24956.0	28569.4	29902.3	29896.9	29559.1	21727.9
55°	14899.1	15061.6	15969.1	18092.6	20805.8	24503.2	29137.3	31224.3	32257.7	31861.5	23657.8
57.5°	12295.4	12390.4	13250.4	15383.0	18627.6	23296.3	29719.8	32811.0	34978.3	34728.1	26057.0
60°	9333.9	9479.9	10369.1	12339.3	15841.3	21154.6	29774.5	34467.0	38230.1	37978.2	28735.6
62.5°	6058.2	6310.2	7142.8	8988.8	12470.7	18074.3	28503.7	35549.8	41312.2	41222.8	31112.9
65°	3481.9	3671.8	4250.6	5674.8	8603.5	14207.1	25481.9	35133.5	43209.3	43158.2	32002.1
66°	2844.7	2963.4	3407.1	4435.0	7099.0	12476.2	23725.4	34255.2	43397.4	43399.2	31899.8
67.5°	2275.0	2328.0	2527.0	3175.2	5238.4	9888.9	20586.7	32318.0	43163.7	43227.6	31240.7
70°	1882.5	1909.9	1971.9	2129.0	2859.3	5963.3	14612.5	27284.0	40817.4	40866.7	28668.0
72.5°	1688.9	1705.4	1729.1	1751.0	2017.6	3332.2	8924.9	21826.5	35787.1	35851.0	24747.9
75°	1530.1	1539.2	1535.6	1537.4	1692.6	2123.5	4612.2	16295.9	28936.5	28808.6	18958.0
77.5°	1343.8	1353.0	1334.7	1338.4	1497.2	1632.3	2295.1	11408.1	19527.7	18625.7	10681.4
80°	1135.7	1143.0	1135.7	1148.5	1303.7	1232.5	1334.7	6417.9	8634.6	8167.1	3797.8
82.5°	858.2	889.2	911.1	962.2	1073.6	876.4	892.9	2499.6	2629.3	2503.3	1164.9
85°	376.1	458.3	686.5	735.8	807.0	525.9	586.1	1018.8	1070.0	1037.1	423.6
87.5°	98.6	107.7	339.6	427.3	447.3	237.4	304.9	463.8	489.3	463.8	140.6
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°	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6
2.5°	4966.4	4876.9	4716.2	4573.8	4466.1	4393.1	4320.0	4283.5	4261.6	4239.7	4243.3
5°	5125.2	4944.5	4668.8	4473.4	4363.8	4294.5	4257.9	4243.3	4234.2	4212.3	4212.3
7.5°	5364.4	5108.8	4729.0	4528.2	4442.4	4389.4	4367.5	4360.2	4349.2	4323.7	4327.3
10°	5665.7	5307.8	4855.0	4659.6	4581.1	4522.7	4491.6	4480.7	4460.6	4431.4	4435.0
12.5°	6019.9	5554.3	5021.2	4816.7	4721.7	4643.2	4592.1	4561.0	4526.3	4488.0	4489.8
15°	6407.0	5822.7	5200.1	4957.2	4827.6	4718.1	4635.9	4582.9	4528.2	4480.7	4478.9
17.5°	6799.6	6082.0	5337.0	5033.9	4858.7	4714.4	4603.0	4520.9	4453.3	4394.9	4389.4
20°	7223.2	6315.7	5413.7	5026.6	4800.2	4628.6	4480.7	4378.4	4303.6	4245.2	4236.0
22.5°	7654.1	6534.8	5426.5	4951.8	4670.6	4460.6	4305.4	4192.2	4115.5	4055.3	4033.4
25°	8048.5	6704.6	5373.5	4807.5	4489.8	4263.4	4111.9	3996.8	3934.8	3863.5	3841.6
27.5°	8408.1	6823.3	5267.6	4623.1	4287.2	4064.4	3922.0	3823.4	3755.8	3701.0	3682.8
30°	8731.3	6887.2	5094.2	4404.0	4079.0	3876.3	3755.8	3688.3	3629.8	3560.5	3547.7
32.5°	9038.1	6887.2	4871.4	4164.8	3872.7	3710.2	3639.0	3597.0	3531.2	3463.7	3445.4
35°	9344.8	6845.2	4608.5	3914.7	3682.8	3591.5	3587.8	3538.5	3438.1	3346.8	3323.1
37.5°	9668.0	6759.4	4312.7	3681.0	3527.6	3538.5	3569.6	3460.0	3317.6	3188.0	3153.3
40°	10033.2	6640.7	4006.0	3478.3	3398.0	3514.8	3520.3	3346.8	3069.3	2950.6	2919.6
42.5°	10462.3	6522.0	3721.1	3299.4	3295.7	3443.6	3427.2	3102.2	2936.0	2875.8	2859.3
45°	11026.5	6454.5	3450.9	3129.5	3215.4	3328.6	3268.3	2967.0	2897.7	2863.0	2848.4
47.5°	11915.7	6489.2	3202.6	2994.4	3135.0	3213.5	2972.5	2912.3	2863.0	2821.0	2806.4
50°	13029.4	6469.1	3001.7	2901.3	3043.7	3093.0	2839.2	2841.1	2815.5	2768.0	2746.1
52.5°	13867.5	6312.0	2872.1	2848.4	2963.4	2879.4	2755.2	2771.7	2758.9	2689.5	2665.8
55°	14676.4	6176.9	2806.4	2828.3	2905.0	2612.8	2656.6	2696.8	2684.0	2616.5	2605.5
57.5°	15682.4	6151.4	2766.2	2833.8	2855.7	2479.5	2561.7	2614.7	2605.5	2576.3	2570.8
60°	16914.9	6158.7	2729.7	2842.9	2800.9	2380.9	2472.2	2539.8	2545.3	2539.8	2536.1
62.5°	17592.3	5959.7	2638.4	2817.3	2704.1	2295.1	2379.1	2477.7	2479.5	2490.5	2488.7
65°	17017.1	5364.4	2468.6	2727.9	2541.6	2223.9	2298.8	2406.5	2379.1	2428.4	2428.4
66°	16458.4	5021.2	2384.6	2669.4	2472.2	2196.5	2273.2	2370.0	2335.3	2402.9	2402.9
67.5°	15317.3	4442.4	2233.0	2545.3	2373.6	2158.2	2244.0	2309.7	2262.3	2362.7	2355.4
70°	13232.1	3436.3	1928.1	2264.1	2211.1	2101.6	2203.8	2189.2	2119.8	2273.2	2244.0
72.5°	11156.1	2611.0	1548.3	1895.3	1964.6	2030.4	2147.2	2035.8	1948.2	2055.9	1992.0
75°	8656.5	1962.8	1223.3	1473.5	1659.7	1919.0	2079.7	1858.7	1732.8	1721.8	1687.1
77.5°	4679.7	1347.5	969.5	1124.7	1318.3	1780.2	2034.0	1668.8	1479.0	1435.1	1407.7
80°	1853.3	876.4	704.8	852.7	922.1	1579.4	1924.5	1447.9	1219.7	1175.9	1133.9
82.5°	765.0	518.5	454.6	571.5	600.7	1351.1	1727.3	1186.8	942.2	1303.7	1384.0
85°	328.7	284.8	270.2	295.8	339.6	947.6	1374.9	905.6	1017.0	907.5	721.2
87.5°	98.6	120.5	115.0	113.2	124.2	226.4	732.2	503.9	746.8	283.0	211.8
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)