

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: P383454

Luminaire Tested: **GAN-SA7C-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33154.7 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

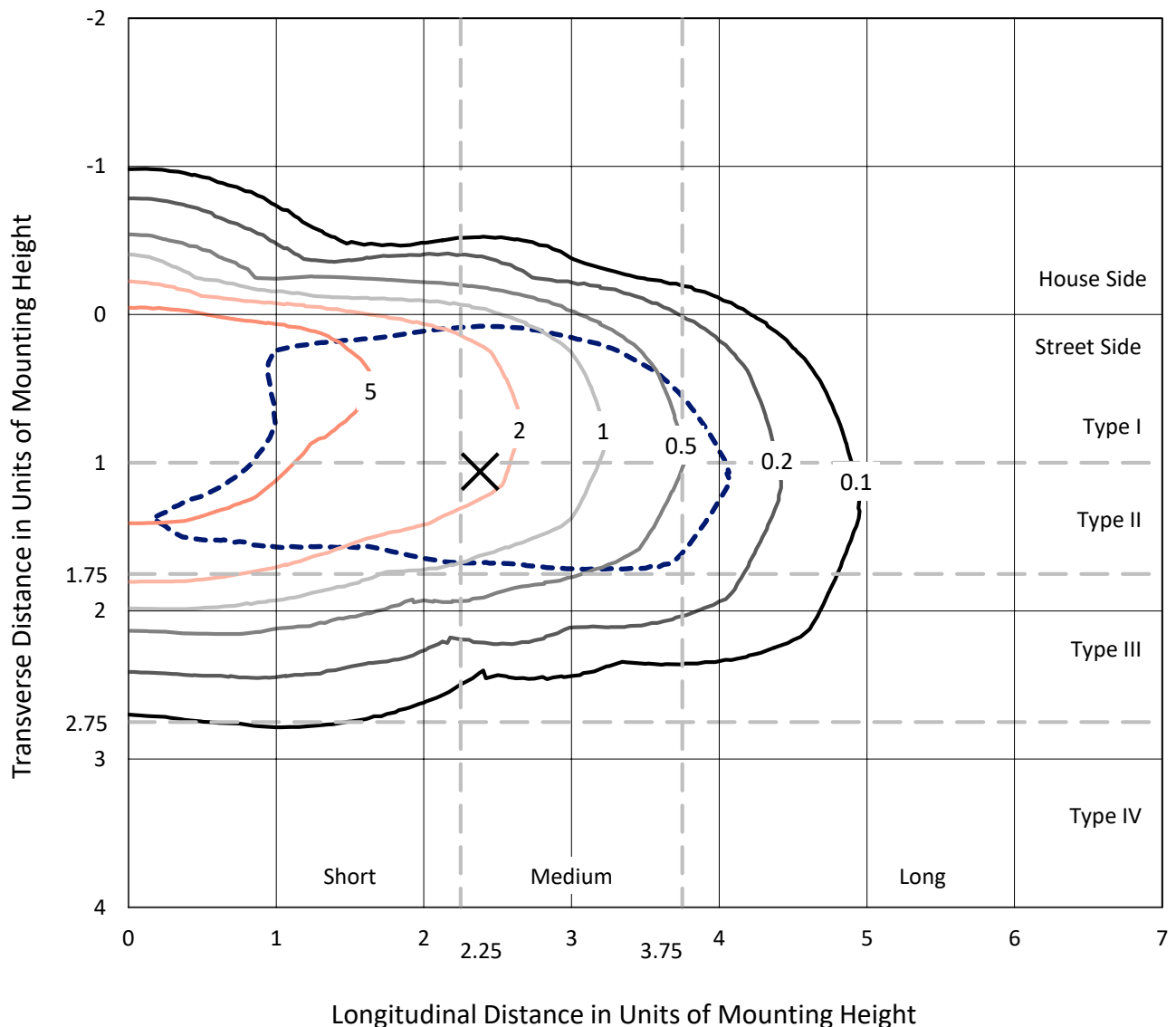
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

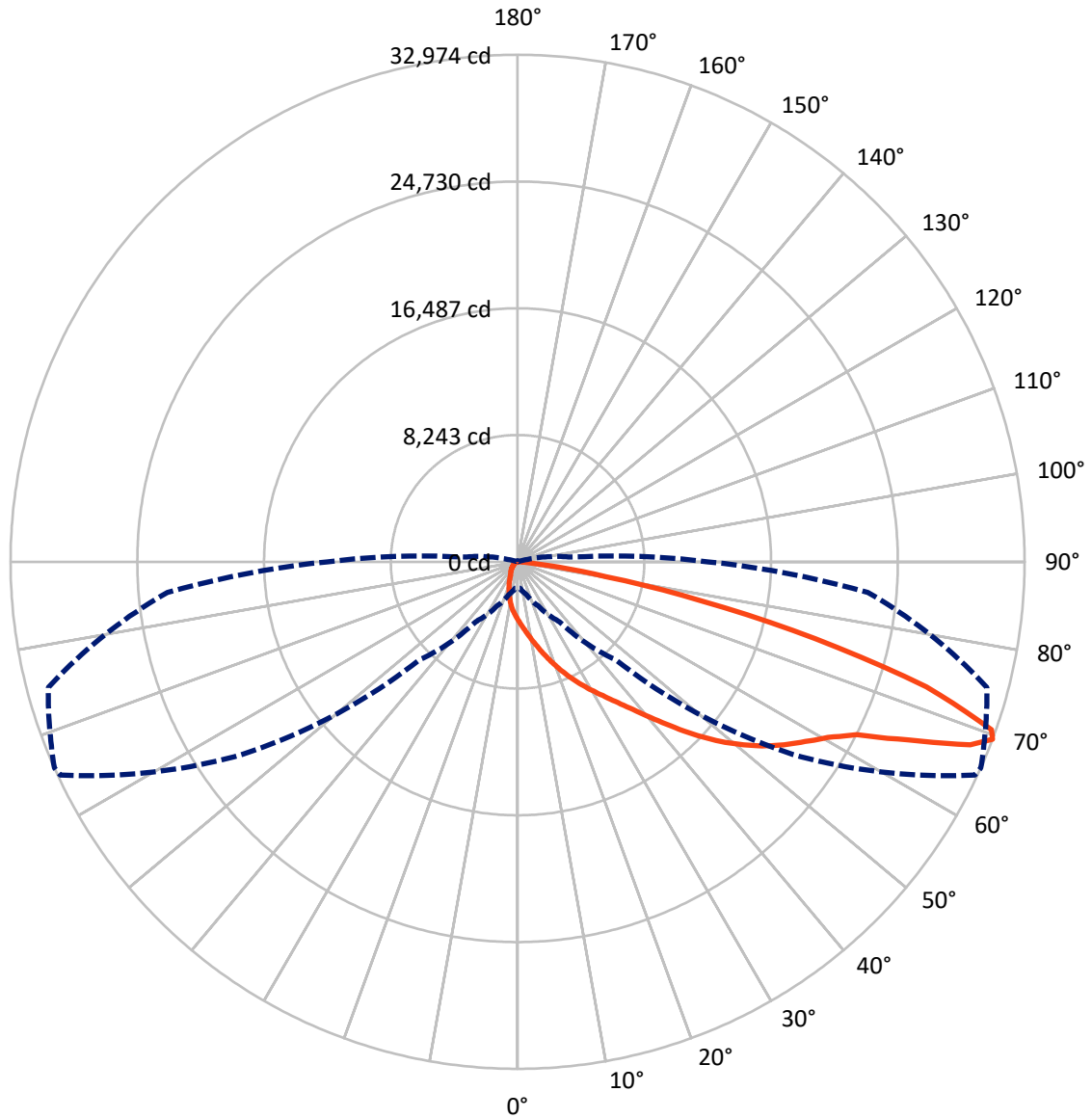
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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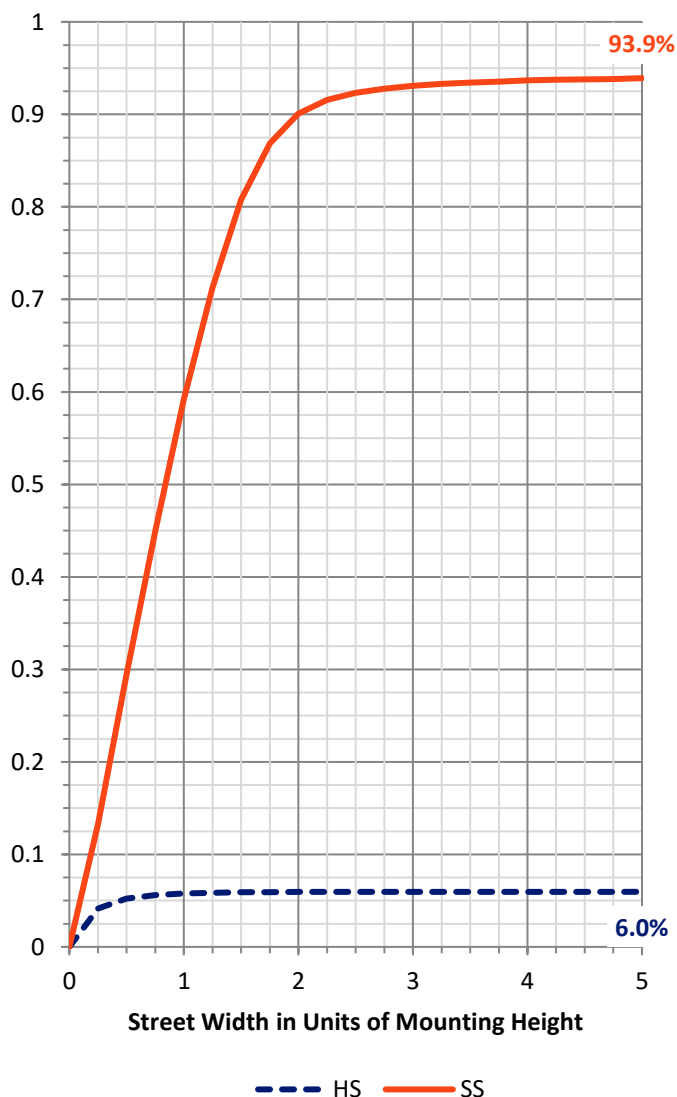
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1988.8	0.0	1988.8
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	31165.9	0.0	31165.9
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	33154.7	0.0	33154.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.7	1.1
10°-20°	1085.5	3.3
20°-30°	1890.2	5.7
30°-40°	3316.4	10.0
40°-50°	5551.1	16.7
50°-60°	8159.6	24.6
60°-70°	8377.9	25.3
70°-80°	4135.9	12.5
80°-90°	273.5	0.8
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°	33154.7	100.0
0°-180°	33154.7	100.0

**Coefficient of Utilization**

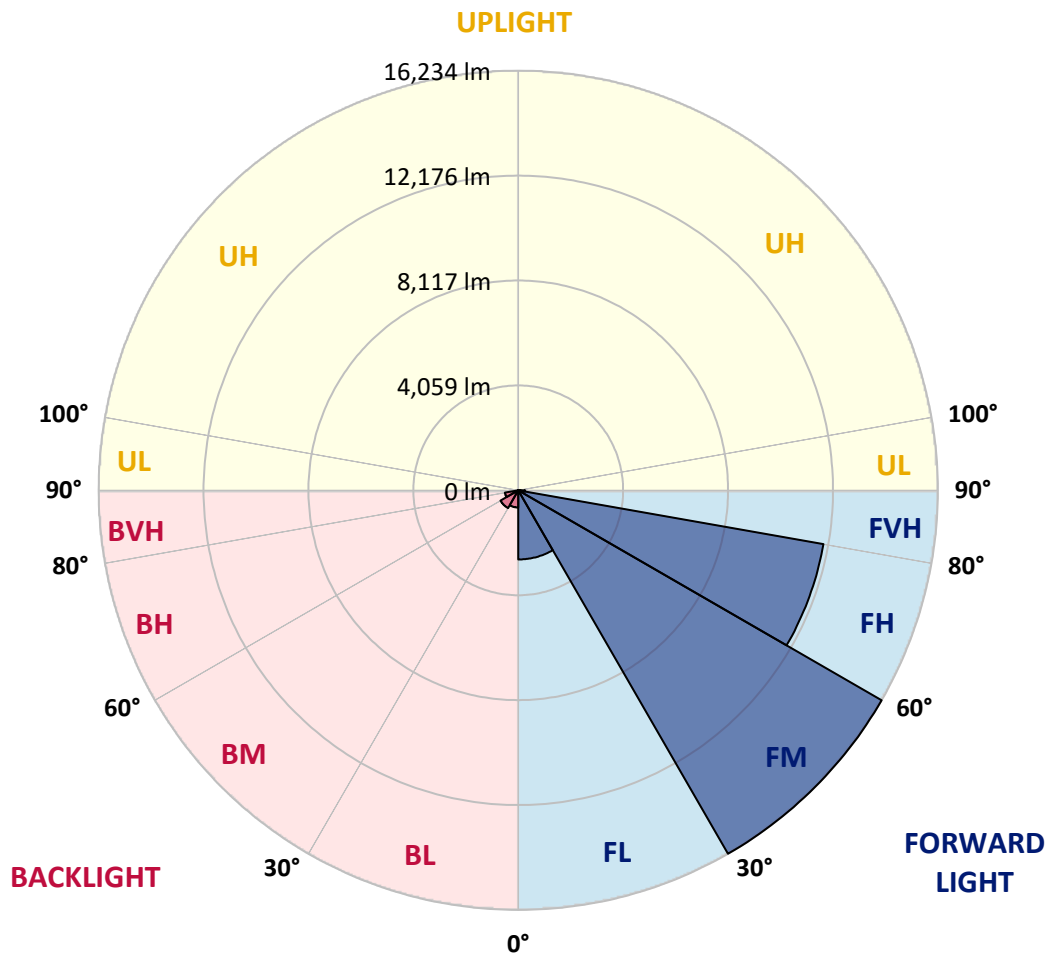


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2675.3	8.1			
FM (30°-60°)	16234.1	49.0			
FH (60°-80°)	11989.6	36.2			G4/12000
FVH (80°-90°)	266.9	0.8			G3/500
BL (0°-30°)	665.1	2.0	B2/1000		
BM (30°-60°)	792.9	2.4	B1/1000		
BH (60°-80°)	524.1	1.6	B2/1000		G2/1000
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1
2.5°	4440.8	4421.9	4414.0	4379.4	4319.6	4273.8	4185.7	4083.3	4064.4	3965.2	3843.9
5°	5017.1	5001.4	4990.4	4941.6	4880.2	4765.2	4604.5	4414.0	4377.8	4188.9	3946.3
7.5°	5418.7	5447.0	5447.0	5415.6	5338.4	5251.8	5054.9	4795.1	4749.5	4459.7	4083.3
10°	5653.4	5688.0	5714.8	5741.6	5730.5	5695.9	5510.1	5217.1	5162.1	4777.8	4242.4
12.5°	5675.5	5710.1	5785.7	5897.4	6006.2	6084.9	5968.3	5684.9	5621.9	5146.3	4431.4
15°	5552.6	5588.8	5705.4	5922.7	6185.7	6415.6	6453.4	6203.0	6138.4	5585.7	4667.6
17.5°	5338.4	5362.1	5528.9	5829.7	6242.3	6664.4	6892.7	6758.8	6699.0	6088.0	4930.6
20°	5179.4	5196.7	5343.2	5666.0	6207.6	6820.2	7308.5	7349.4	7286.4	6626.6	5215.5
22.5°	5451.8	5483.3	5488.0	5640.8	6113.2	6897.5	7673.8	7930.5	7883.2	7198.2	5495.9
25°	6196.7	6232.9	6113.2	6018.7	6193.5	6932.1	7987.2	8525.7	8487.9	7813.9	5777.7
27.5°	7180.9	7218.7	7064.4	6782.5	6614.0	7062.8	8265.9	9130.5	9128.9	8465.9	6081.7
30°	8147.8	8185.6	8028.1	7746.2	7358.9	7432.8	8506.8	9763.5	9773.0	9138.3	6404.5
32.5°	9162.0	9209.2	9047.0	8684.8	8280.1	8072.2	8845.4	10399.7	10453.3	9917.8	6768.3
35°	10314.7	10321.0	10092.6	9713.1	9246.9	8927.3	9388.7	11113.1	11240.6	10883.1	7229.7
37.5°	11445.3	11491.0	11303.6	10705.2	10276.8	9914.6	10196.5	12004.4	12185.5	12062.6	7832.8
40°	12283.1	12379.1	12352.4	11706.8	11300.4	11042.2	11199.6	13064.2	13294.1	13435.8	8593.4
42.5°	12809.1	12881.5	13004.3	12615.4	12246.9	12289.3	12383.9	14298.8	14582.3	15001.1	9467.4
45°	13412.1	13446.8	13549.2	13377.6	13128.8	13557.1	13640.6	15689.3	15986.9	16684.5	10437.4
47.5°	14149.2	14231.1	14259.4	14102.0	13988.6	14678.3	14851.5	16953.8	17371.1	18487.6	11464.2
50°	15087.7	15109.8	15158.6	15056.2	14942.9	15642.1	15938.1	18281.3	18660.9	20297.0	12476.8
52.5°	16005.9	16084.6	16254.6	16190.0	16144.4	16462.5	16906.6	19478.1	19901.8	21805.7	13487.8
55°	16270.4	16338.0	16925.5	17327.1	17698.7	17473.5	17832.5	20550.6	21008.8	23153.6	14461.0
57.5°	15213.7	15350.7	16368.0	17413.6	18955.3	19045.1	19104.9	21651.3	22062.3	24186.7	15473.6
60°	12542.9	12569.7	14238.9	16032.6	18747.5	20416.7	20963.2	22833.9	23178.9	25148.8	16686.1
62.5°	7977.7	8250.2	10081.6	12613.8	16549.1	20218.3	23210.3	24622.9	24748.9	26303.1	18424.6
65°	3799.9	3976.2	5295.9	7793.4	11987.1	17678.2	24761.5	27859.0	27915.7	28591.2	20747.4
67.5°	2103.9	2189.0	2817.3	4195.1	7007.7	12502.0	24134.7	31691.9	31745.5	30928.2	22785.1
69°	1645.6	1718.1	2212.5	3162.1	4751.1	8985.5	21840.3	32814.7	32973.8	31597.4	22857.6
70°	1396.8	1467.7	1905.5	2670.7	3820.4	6943.1	19440.4	32536.0	32704.5	31534.5	22317.5
72.5°	855.1	896.1	1269.2	1880.2	2560.5	3492.8	11988.6	27515.7	27800.7	28926.7	19180.5
75°	576.3	598.4	793.7	1297.6	1831.4	1798.4	6228.1	19394.6	20012.0	22501.6	14166.5
77.5°	412.6	433.1	532.3	839.3	1283.4	1187.4	2820.4	12053.2	12185.5	13495.6	7725.8
80°	234.7	253.6	376.3	499.2	870.8	792.1	1121.2	5757.3	5823.5	5787.2	2579.5
82.5°	122.9	138.6	206.3	329.1	559.0	518.1	466.1	1927.5	1937.0	1611.0	565.4
85°	23.7	28.3	102.4	225.2	288.2	225.2	190.5	452.0	461.4	407.8	140.2
87.5°	0.0	1.6	41.0	50.4	56.7	58.2	61.4	88.2	94.5	127.5	37.8
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°	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1	3773.1
2.5°	3790.5	3733.7	3625.1	3499.1	3401.5	3305.4	3229.9	3151.1	3122.7	3108.6	3107.0
5°	3828.2	3708.6	3478.7	3242.4	3048.8	2866.1	2735.3	2610.9	2552.7	2525.9	2514.9
7.5°	3891.3	3699.1	3329.1	2968.4	2689.7	2461.3	2280.2	2144.8	2077.1	2048.8	2037.8
10°	3965.2	3686.5	3154.2	2678.7	2322.7	2086.6	1907.1	1773.2	1699.1	1667.7	1651.9
12.5°	4051.9	3664.4	2952.6	2385.8	2009.3	1773.2	1555.9	1390.5	1305.5	1269.2	1251.9
15°	4158.9	3642.4	2741.6	2110.1	1733.8	1445.7	1207.8	1096.1	1078.7	1072.4	1074.0
17.5°	4264.4	3607.8	2511.7	1837.8	1444.1	1129.1	1007.8	1001.5	1004.7	1004.7	1004.7
20°	4358.9	3529.0	2261.3	1604.7	1168.4	952.7	927.5	916.5	908.6	902.3	894.5
22.5°	4433.0	3423.5	2020.4	1373.2	954.3	872.4	833.1	798.4	770.0	751.2	741.7
25°	4483.4	3283.3	1799.9	1151.1	858.2	793.7	722.8	664.6	620.4	593.7	582.7
27.5°	4521.1	3132.1	1603.1	963.8	792.1	702.4	609.4	540.1	494.5	470.9	461.4
30°	4547.9	2960.6	1429.8	847.2	718.1	606.3	507.0	439.3	406.2	393.7	387.4
32.5°	4573.1	2770.0	1266.1	792.1	648.8	518.1	425.2	373.2	352.8	337.0	332.3
35°	4636.0	2593.6	1110.2	733.9	577.9	442.5	365.4	327.5	307.0	297.6	294.5
37.5°	4785.6	2462.9	960.6	674.0	507.0	382.7	319.7	292.9	274.0	264.6	261.4
40°	5026.6	2396.8	834.6	609.4	437.8	337.0	289.7	264.6	244.1	229.9	226.7
42.5°	5380.9	2406.2	746.4	544.9	382.7	300.8	261.4	231.5	209.4	196.8	193.7
45°	5810.8	2475.5	685.1	481.9	337.0	272.5	229.9	198.4	177.9	166.9	163.8
47.5°	6277.0	2587.3	634.7	425.2	300.8	245.6	198.4	165.3	148.0	138.6	137.0
50°	6768.3	2696.0	582.7	370.1	269.3	218.9	166.9	137.0	122.9	115.0	111.8
52.5°	7265.9	2821.9	535.5	319.7	242.5	187.4	138.6	111.8	100.8	94.5	91.3
55°	7801.3	2916.5	489.7	280.3	215.7	159.0	115.0	92.9	83.5	75.5	74.1
57.5°	8431.3	3062.9	442.5	242.5	184.3	132.3	94.5	74.1	66.1	58.2	56.7
60°	9281.6	3234.5	392.1	214.2	151.2	108.6	77.1	59.8	50.4	44.1	42.5
62.5°	10402.9	3425.1	329.1	187.4	122.9	88.2	61.4	47.2	36.2	28.3	28.3
65°	11824.9	3735.3	269.3	157.4	100.8	72.5	47.2	34.7	20.5	12.6	12.6
67.5°	12654.7	3788.9	217.3	129.1	81.9	61.4	39.4	23.7	6.3	1.6	0.0
69°	12388.6	3478.7	184.3	110.2	70.9	58.2	36.2	17.3	3.2	0.0	0.0
70°	11887.9	3181.0	162.2	97.6	64.6	55.1	34.7	12.6	3.2	0.0	0.0
72.5°	9823.4	2264.5	122.9	72.5	47.2	48.8	31.5	7.9	3.2	0.0	0.0
75°	7155.7	1376.4	88.2	50.4	29.9	36.2	22.1	3.2	1.6	0.0	0.0
77.5°	3981.0	648.8	55.1	28.3	18.9	22.1	11.0	0.0	0.0	0.0	0.0
80°	1292.9	176.3	25.2	15.7	11.0	12.6	4.8	0.0	0.0	0.0	0.0
82.5°	239.4	50.4	14.2	7.9	3.2	3.2	0.0	0.0	0.0	0.0	0.0
85°	52.0	20.5	7.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)