

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: P321904

Luminaire Tested: **GAN-SA0D-730-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321904  
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-SA0D-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1200mA 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: 49754 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

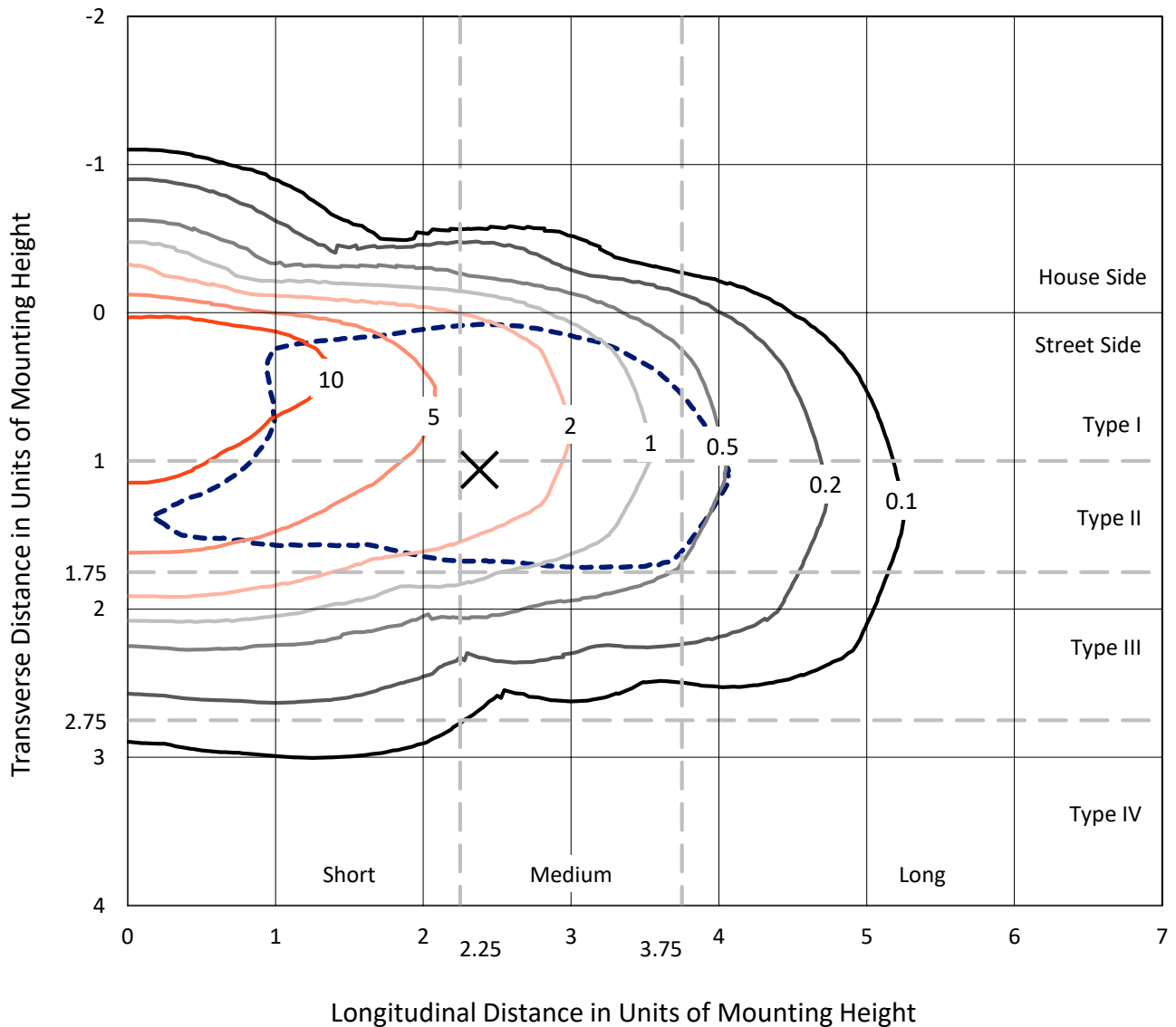
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

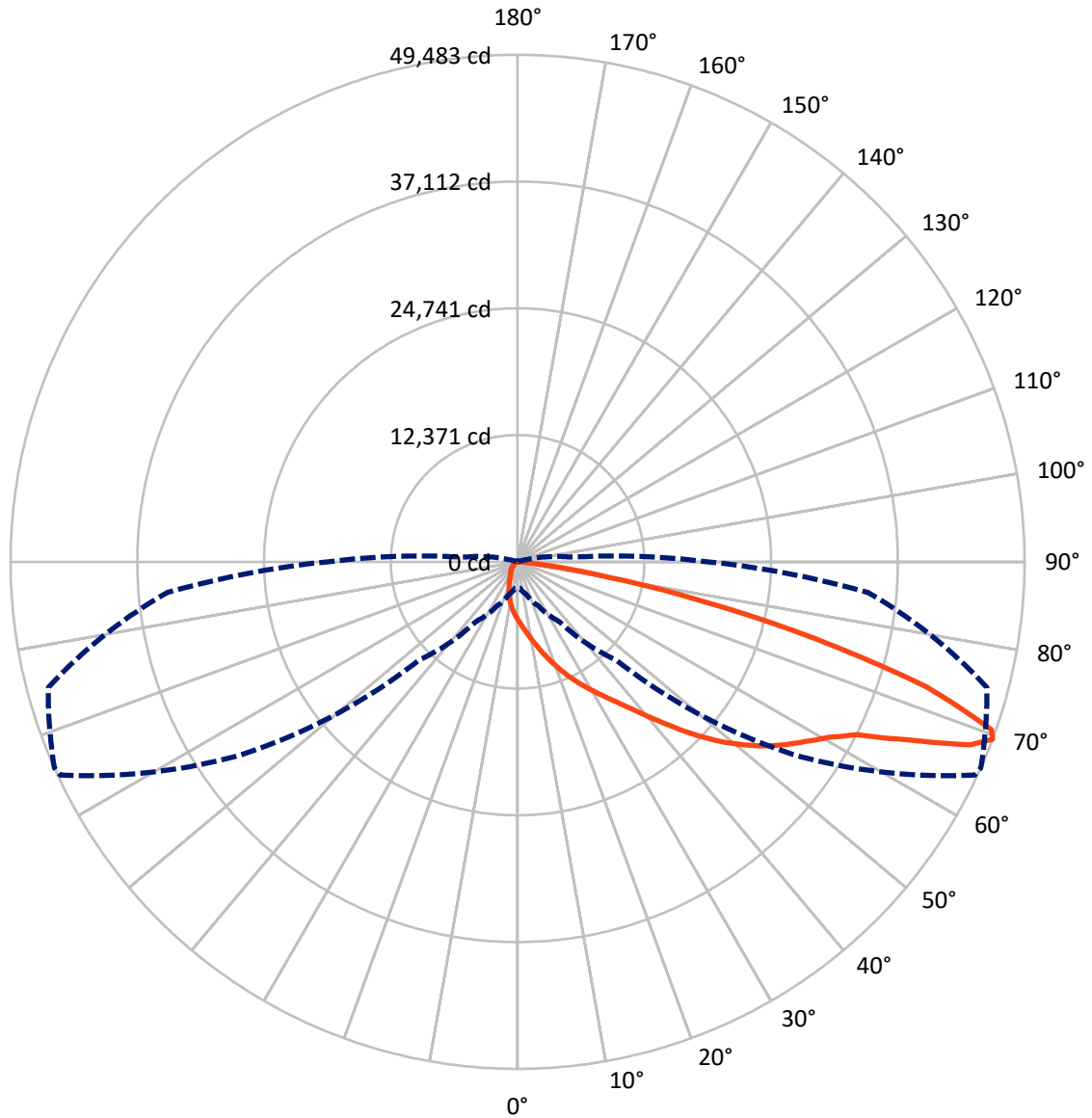
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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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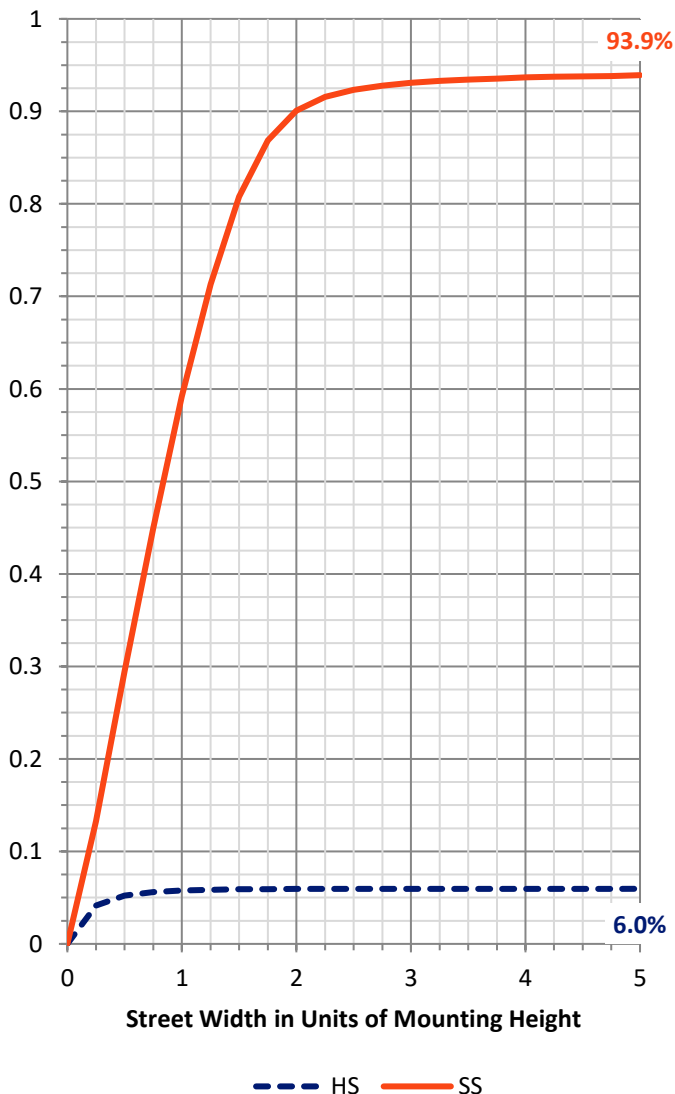
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2984.5	0.0	2984.5
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	46769.4	0.0	46769.4
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	49754.0	0.0	49754.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.3	1.1
10°-20°	1628.9	3.3
20°-30°	2836.6	5.7
30°-40°	4976.8	10.0
40°-50°	8330.3	16.7
50°-60°	12244.8	24.6
60°-70°	12572.3	25.3
70°-80°	6206.6	12.5
80°-90°	410.4	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°	49754.0	100.0
0°-180°	49754.0	100.0

**Coefficient of Utilization**

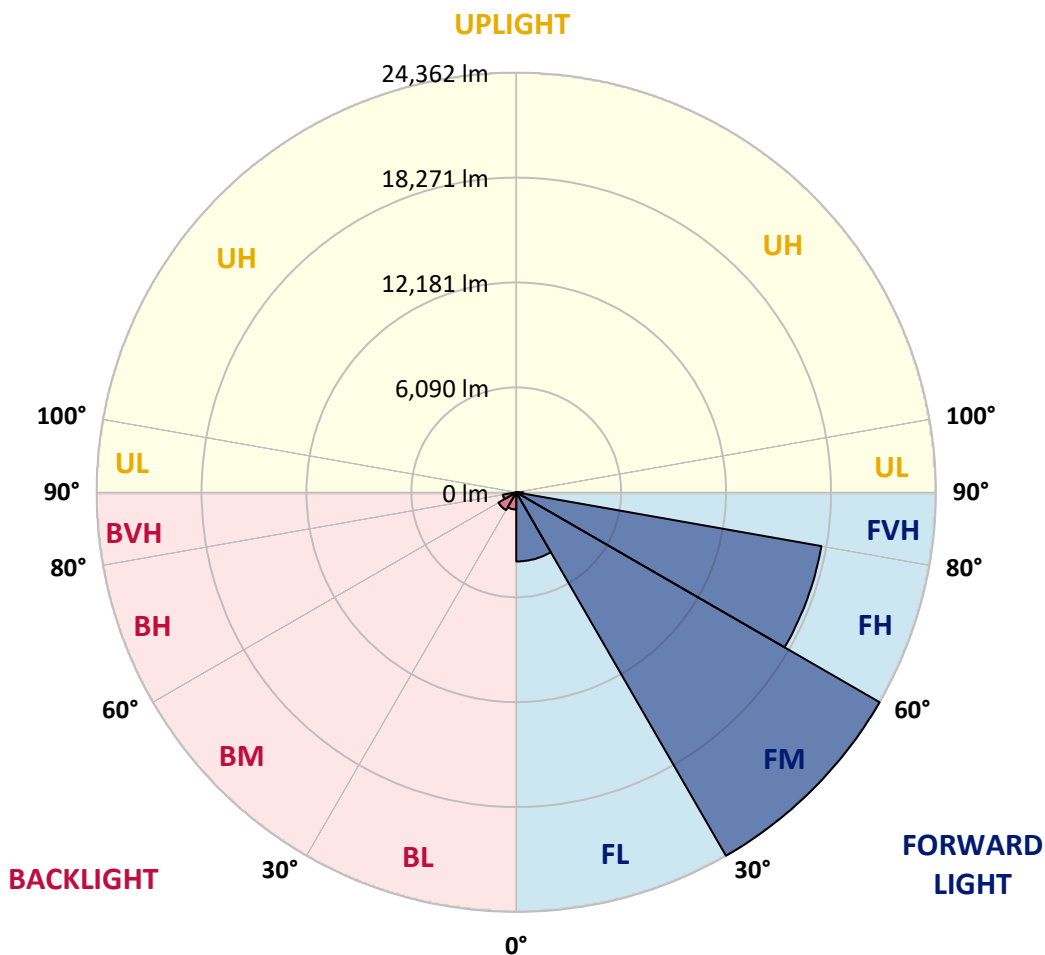


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4014.7	8.1			
FM (30°-60°)	24361.9	49.0			
FH (60°-80°)	17992.4	36.2			G5
FVH (80°-90°)	400.5	0.8			G3/500
BL (0°-30°)	998.2	2.0	B2/1000		
BM (30°-60°)	1189.9	2.4	B2/2500		
BH (60°-80°)	786.5	1.6	B2/1000		G2/1000
BVH (80°-90°)	9.9	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-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2
2.5°	6664.2	6635.8	6624.0	6572.0	6482.2	6413.7	6281.3	6127.7	6099.4	5950.5	5768.5
5°	7529.1	7505.4	7488.9	7415.6	7323.5	7151.0	6909.9	6624.0	6569.6	6286.0	5922.1
7.5°	8131.7	8174.2	8174.2	8127.0	8011.2	7881.2	7585.8	7195.9	7127.3	6692.5	6127.7
10°	8483.8	8535.8	8576.0	8616.1	8599.6	8547.6	8268.7	7829.2	7746.5	7169.9	6366.4
12.5°	8516.9	8568.9	8682.3	8850.1	9013.1	9131.3	8956.4	8531.1	8436.5	7722.9	6650.0
15°	8332.6	8386.9	8561.8	8887.9	9282.5	9627.6	9684.3	9308.5	9211.7	8382.2	7004.4
17.5°	8011.2	8046.6	8297.1	8748.5	9367.6	10001.0	10343.6	10142.7	10052.9	9136.0	7399.1
20°	7772.5	7798.5	8018.2	8502.7	9315.6	10234.9	10967.5	11028.9	10934.4	9944.2	7826.8
22.5°	8181.3	8228.6	8235.7	8464.9	9173.8	10350.7	11515.7	11900.9	11830.0	10802.1	8247.5
25°	9299.1	9353.4	9173.8	9032.1	9294.4	10402.7	11986.0	12794.2	12737.5	11726.1	8670.5
27.5°	10776.1	10832.8	10601.2	10178.2	9925.3	10598.8	12404.3	13701.7	13699.3	12704.4	9126.6
30°	12227.1	12283.8	12047.5	11624.5	11043.1	11154.2	12765.9	14651.7	14665.9	13713.5	9611.0
32.5°	13748.9	13819.8	13576.4	13032.9	12425.6	12113.6	13273.9	15606.4	15686.7	14883.3	10156.9
35°	15478.8	15488.2	15145.6	14576.1	13876.6	13396.8	14089.2	16676.9	16868.3	16331.9	10849.3
37.5°	17175.5	17244.1	16962.9	16064.9	15422.1	14878.5	15301.6	18014.5	18286.2	18101.9	11754.4
40°	18432.8	18576.9	18536.7	17567.8	16958.1	16570.6	16806.9	19604.9	19949.9	20162.6	12895.8
42.5°	19222.1	19330.8	19515.1	18931.4	18378.4	18442.2	18584.0	21457.6	21883.0	22511.6	14207.4
45°	20127.2	20179.1	20332.7	20075.2	19701.8	20344.6	20469.8	23544.3	23990.9	25037.8	15663.1
47.5°	21233.1	21356.0	21398.5	21162.2	20992.1	22027.1	22287.1	25441.9	26068.2	27743.7	17203.9
50°	22641.6	22674.7	22747.9	22594.3	22424.2	23473.4	23917.7	27434.1	28003.6	30458.9	18723.4
52.5°	24019.3	24137.5	24392.7	24295.8	24227.3	24704.6	25371.0	29230.1	29865.8	32722.9	20240.6
55°	24416.3	24517.9	25399.4	26002.0	26559.7	26221.8	26760.6	30839.4	31527.1	34745.7	21701.0
57.5°	22830.6	23036.2	24562.8	26132.0	28445.5	28580.2	28670.0	32491.3	33108.1	36296.0	23220.5
60°	18822.7	18862.9	21367.8	24059.5	28133.6	30638.6	31458.6	34266.0	34783.6	37739.9	25040.2
62.5°	11971.8	12380.7	15129.0	18929.0	24834.6	30340.8	34830.8	36950.6	37139.6	39472.1	27649.1
65°	5702.3	5967.0	7947.4	11695.3	17988.5	26529.0	37158.5	41806.9	41892.0	42905.8	31134.8
67.5°	3157.2	3284.8	4227.7	6295.5	10516.1	18761.2	36218.0	47558.9	47639.2	46412.7	34192.8
69°	2469.5	2578.2	3320.3	4745.3	7129.7	13484.3	32774.9	49243.8	49482.5	47417.1	34301.5
70°	2096.1	2202.5	2859.4	4007.9	5733.1	10419.2	29173.4	48825.5	49078.4	47322.6	33490.9
72.5°	1283.2	1344.6	1904.7	2821.6	3842.5	5241.5	17990.8	41291.7	41719.5	43409.1	28783.5
75°	864.9	898.0	1191.0	1947.3	2748.4	2698.7	9346.4	29104.9	30031.2	33767.4	21259.1
77.5°	619.2	649.9	798.8	1259.6	1926.0	1781.8	4232.4	18087.7	18286.2	20252.4	11593.7
80°	352.1	380.5	564.8	749.1	1306.8	1188.7	1682.6	8639.8	8739.0	8684.7	3870.9
82.5°	184.3	208.0	309.6	493.9	838.9	777.5	699.5	2892.5	2906.7	2417.5	848.4
85°	35.4	42.5	153.6	337.9	432.5	337.9	285.9	678.2	692.4	612.1	210.3
87.5°	0.0	2.4	61.4	75.6	85.1	87.4	92.2	132.3	141.8	191.4	56.7
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°	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2	5662.2
2.5°	5688.2	5603.1	5440.0	5251.0	5104.5	4960.3	4846.9	4728.7	4686.2	4664.9	4662.5
5°	5744.9	5565.3	5220.3	4865.8	4575.1	4301.0	4104.8	3918.1	3830.7	3790.5	3774.0
7.5°	5839.4	5551.1	4995.7	4454.6	4036.3	3693.6	3421.9	3218.6	3117.0	3074.5	3057.9
10°	5950.5	5532.2	4733.4	4019.8	3485.7	3131.2	2861.8	2660.9	2549.9	2502.6	2479.0
12.5°	6080.4	5499.1	4431.0	3580.2	3015.4	2660.9	2334.8	2086.7	1959.1	1904.7	1878.7
15°	6241.1	5466.0	4114.3	3166.7	2601.9	2169.4	1812.6	1644.8	1618.8	1609.3	1611.7
17.5°	6399.5	5414.0	3769.3	2757.8	2167.0	1694.4	1512.4	1503.0	1507.7	1507.7	1507.7
20°	6541.3	5295.9	3393.5	2408.1	1753.5	1429.7	1391.9	1375.4	1363.6	1354.1	1342.3
22.5°	6652.3	5137.5	3032.0	2060.7	1432.1	1309.2	1250.1	1198.1	1155.6	1127.2	1113.1
25°	6728.0	4927.2	2701.1	1727.5	1287.9	1191.0	1084.7	997.3	931.1	890.9	874.4
27.5°	6784.7	4700.4	2405.7	1446.3	1188.7	1054.0	914.5	810.6	742.0	706.6	692.4
30°	6824.8	4442.8	2145.8	1271.4	1077.6	909.8	760.9	659.3	609.7	590.8	581.3
32.5°	6862.7	4156.8	1900.0	1188.7	973.6	777.5	638.1	560.1	529.4	505.7	498.6
35°	6957.2	3892.1	1666.0	1101.2	867.3	664.1	548.3	491.5	460.8	446.6	441.9
37.5°	7181.7	3696.0	1441.5	1011.4	760.9	574.3	479.7	439.6	411.2	397.0	392.3
40°	7543.3	3596.8	1252.5	914.5	657.0	505.7	434.8	397.0	366.3	345.0	340.3
42.5°	8075.0	3610.9	1120.1	817.7	574.3	451.4	392.3	347.4	314.3	295.4	290.7
45°	8720.1	3714.9	1028.0	723.1	505.7	408.8	345.0	297.8	267.0	250.5	245.8
47.5°	9419.6	3882.7	952.4	638.1	451.4	368.7	297.8	248.1	222.1	208.0	205.6
50°	10156.9	4045.8	874.4	555.3	404.1	328.5	250.5	205.6	184.3	172.5	167.8
52.5°	10903.7	4234.8	803.5	479.7	363.9	281.2	208.0	167.8	151.2	141.8	137.1
55°	11707.2	4376.6	734.9	420.6	323.8	238.7	172.5	139.4	125.2	113.4	111.1
57.5°	12652.4	4596.4	664.1	363.9	276.5	198.5	141.8	111.1	99.3	87.4	85.1
60°	13928.5	4854.0	588.4	321.4	226.9	163.1	115.8	89.8	75.6	66.2	63.8
62.5°	15611.1	5139.9	493.9	281.2	184.3	132.3	92.2	70.9	54.4	42.5	42.5
65°	17745.1	5605.4	404.1	236.3	151.2	108.7	70.9	52.0	30.7	18.9	18.9
67.5°	18990.5	5685.8	326.1	193.8	122.9	92.2	59.1	35.4	9.5	2.4	0.0
69°	18591.1	5220.3	276.5	165.4	106.3	87.4	54.4	26.0	4.7	0.0	0.0
70°	17839.6	4773.6	243.4	146.5	96.9	82.7	52.0	18.9	4.7	0.0	0.0
72.5°	14741.5	3398.2	184.3	108.7	70.9	73.3	47.3	11.8	4.7	0.0	0.0
75°	10738.3	2065.4	132.3	75.6	44.9	54.4	33.1	4.7	2.4	0.0	0.0
77.5°	5974.1	973.6	82.7	42.5	28.4	33.1	16.5	0.0	0.0	0.0	0.0
80°	1940.2	264.7	37.8	23.6	16.5	18.9	7.1	0.0	0.0	0.0	0.0
82.5°	359.2	75.6	21.3	11.8	4.7	4.7	0.0	0.0	0.0	0.0	0.0
85°	78.0	30.7	11.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.0	9.5	2.4	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)