

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: McGRAW-EDISON

Report Number: P457902

Luminaire Tested: **GALN-SA9B-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33985 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

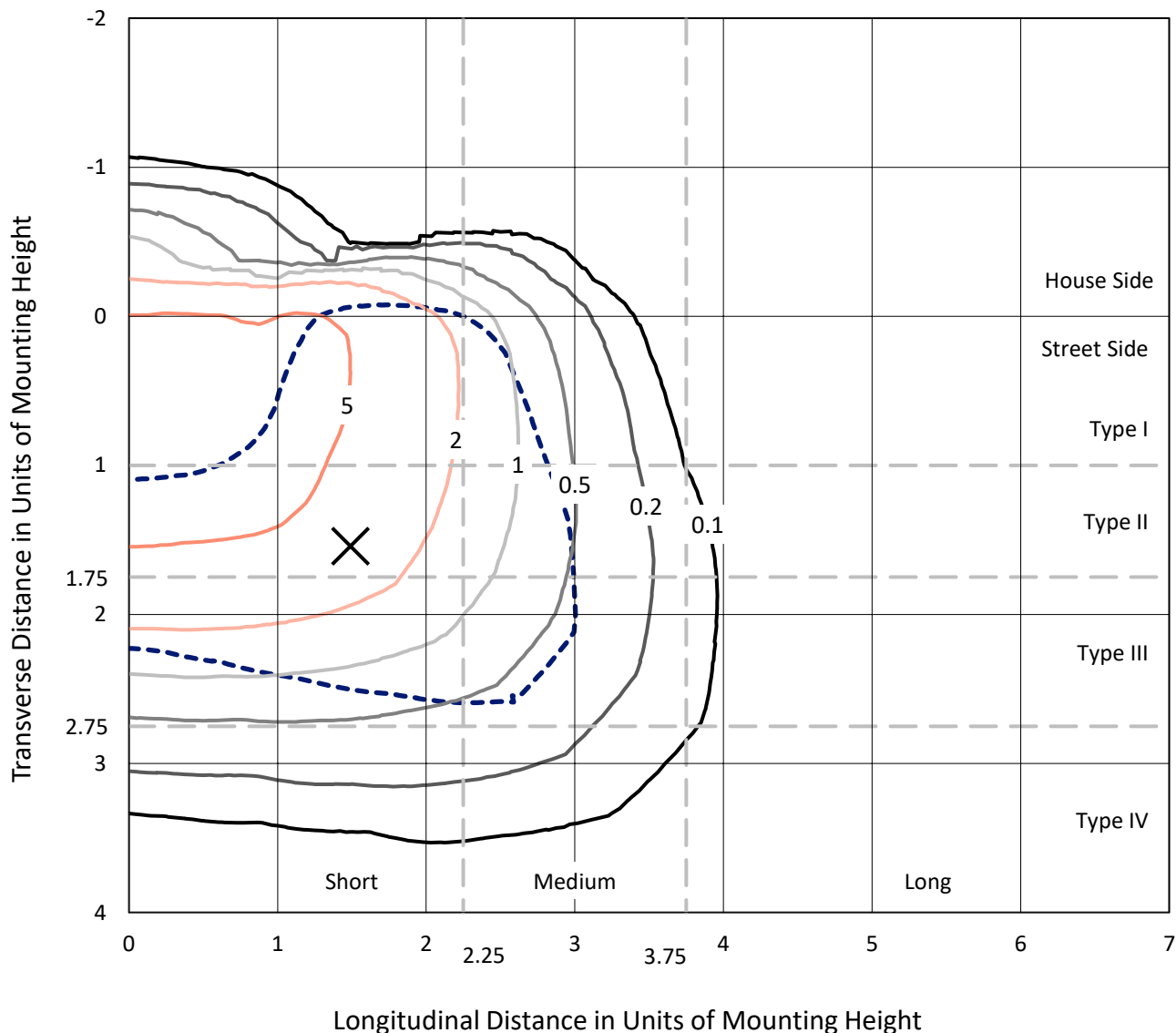
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457902  
 CATALOG NUMBER: GALN-SA9B-730-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

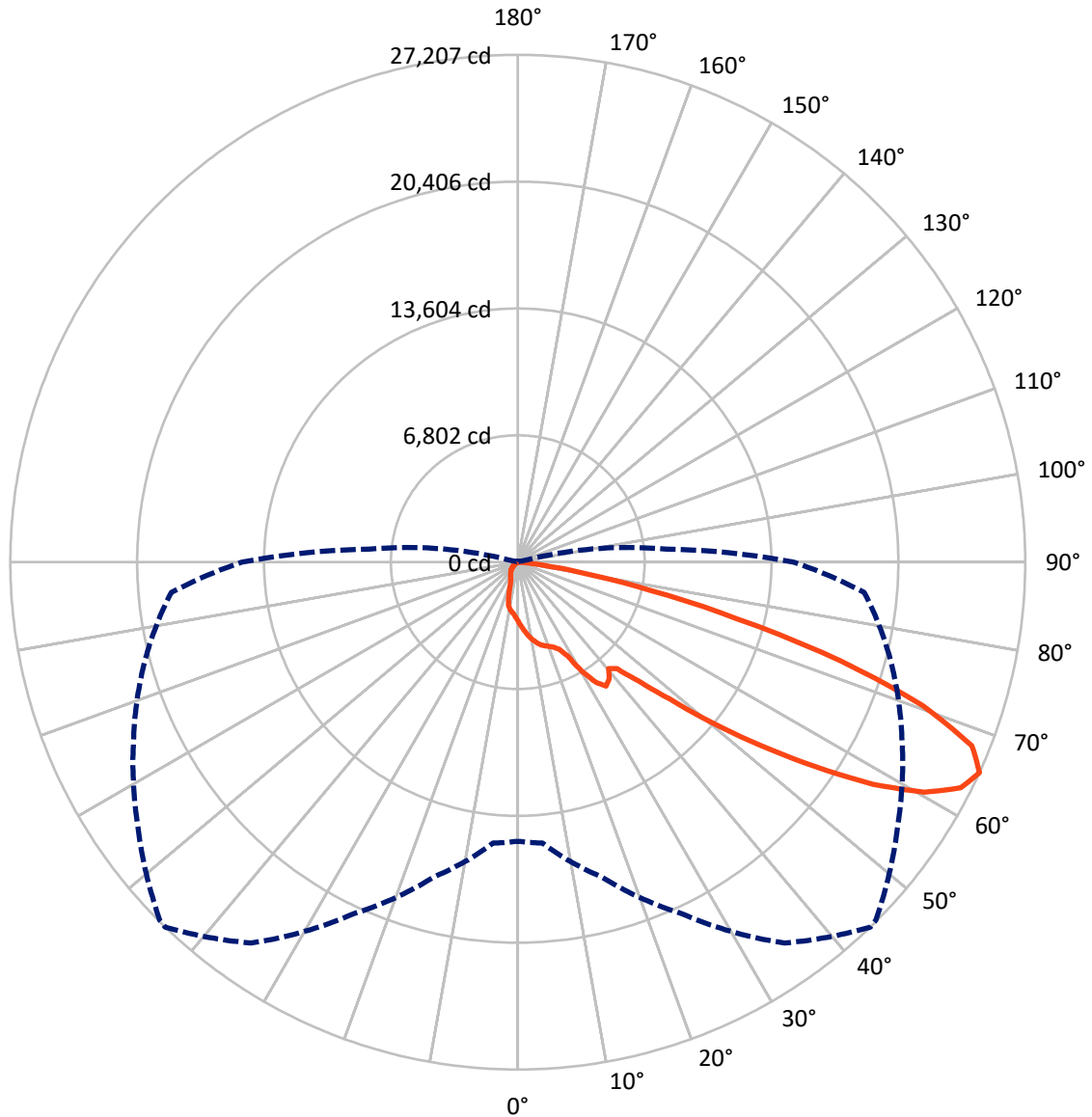
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P457902  
CATALOG NUMBER: GALN-SA9B-730-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P457902

CATALOG NUMBER: GALN-SA9B-730-U-T4W-HSS

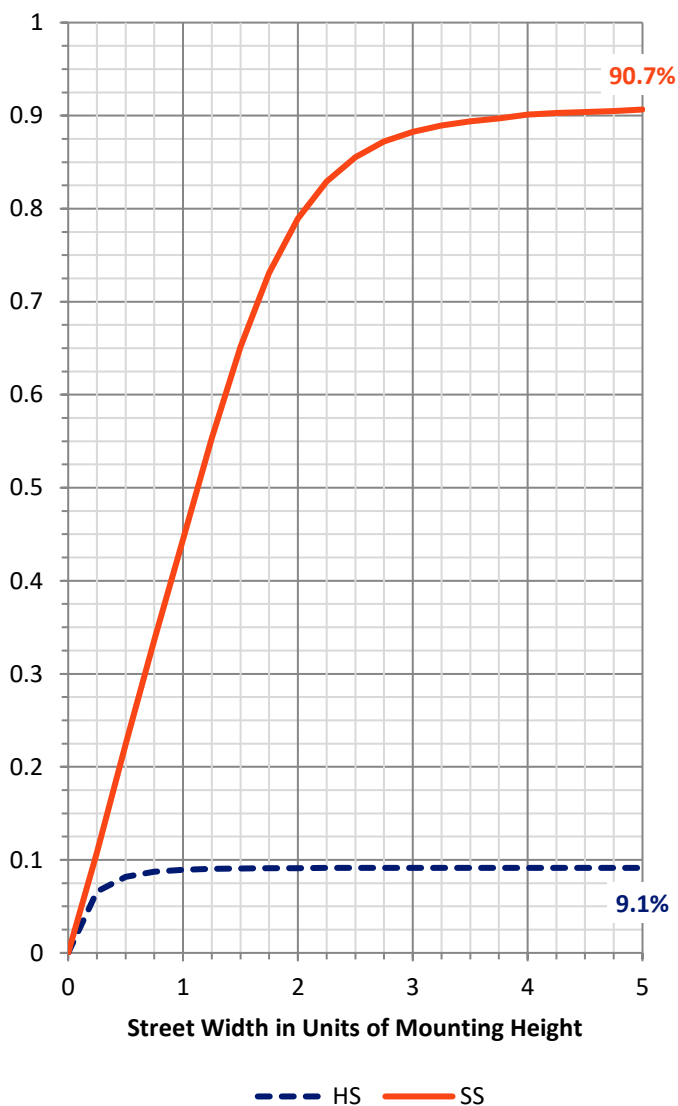
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3131.2	0.0	3131.2
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	30853.8	0.0	30853.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	33985.0	0.0	33985.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.6	0.9
10°-20°	946.8	2.8
20°-30°	1605.5	4.7
30°-40°	2669.4	7.9
40°-50°	4660.8	13.7
50°-60°	9105.5	26.8
60°-70°	10564.5	31.1
70°-80°	3847.0	11.3
80°-90°	271.1	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°	33985.0	100.0
0°-180°	33985.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457902

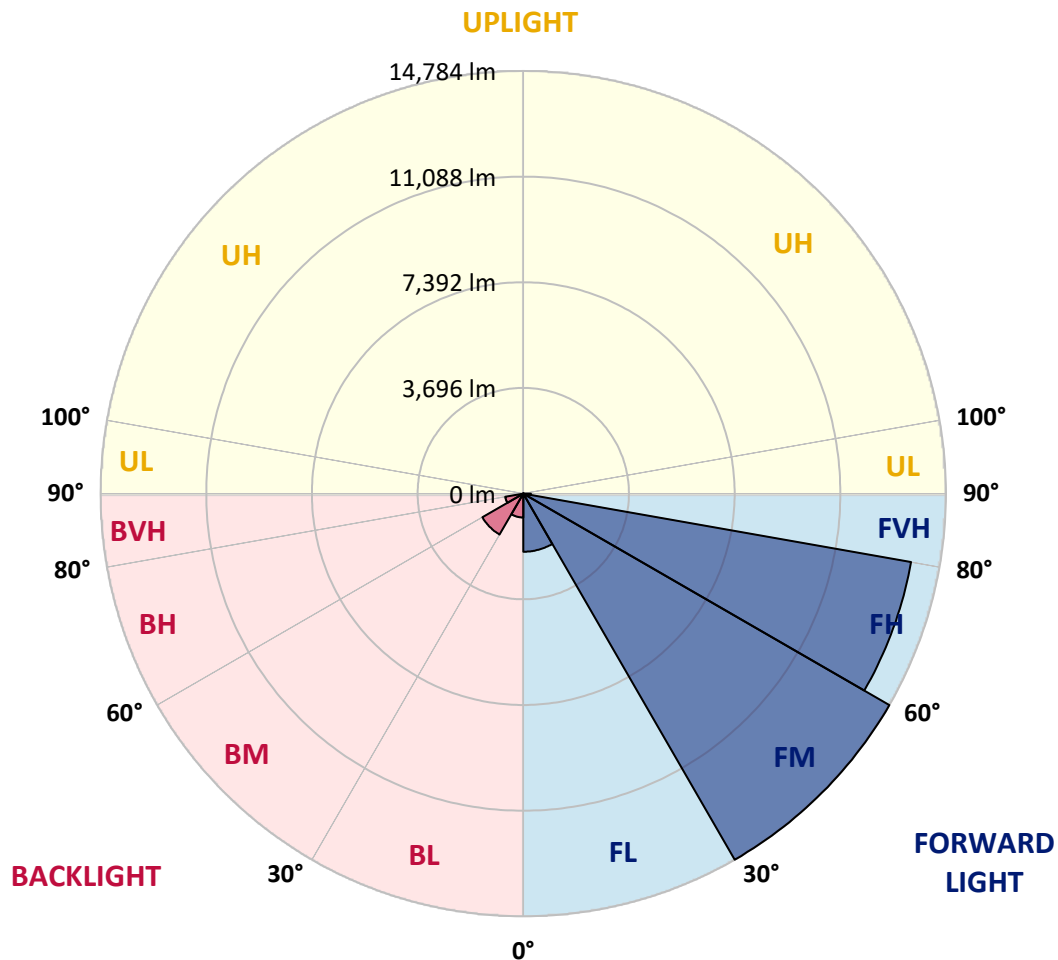
CATALOG NUMBER: GALN-SA9B-730-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2032.6	6.0			
FM (30°-60°)	14783.5	43.5			
FH (60°-80°)	13770.3	40.5			G5
FVH (80°-90°)	267.4	0.8			G3/500
BL (0°-30°)	834.3	2.5	B2/1000		
BM (30°-60°)	1652.0	4.9	B2/2500		
BH (60°-80°)	641.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	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 III Short





REPORT NUMBER: P457902

CATALOG NUMBER: GALN-SA9B-730-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0
2.5°	3560.3	3544.7	3536.9	3495.4	3464.2	3425.3	3425.3	3375.9	3318.8	3256.5	3199.3
5°	3957.6	3931.7	3897.9	3861.5	3788.8	3685.0	3685.0	3581.1	3461.6	3355.2	3238.3
7.5°	4339.4	4316.0	4258.9	4188.8	4069.3	3960.2	3952.4	3801.8	3659.0	3498.0	3331.8
10°	4674.4	4656.2	4606.9	4471.8	4347.2	4204.3	4201.7	4032.9	3866.7	3669.4	3464.2
12.5°	4908.1	4910.7	4845.8	4715.9	4554.9	4419.9	4409.5	4243.3	4069.3	3856.4	3604.5
15°	5074.3	5074.3	5006.8	4861.3	4715.9	4596.5	4586.1	4440.7	4261.5	4030.3	3757.7
17.5°	5121.0	5136.6	5063.9	4934.1	4817.2	4713.3	4710.7	4588.7	4445.8	4222.5	3913.5
20°	5102.9	5118.4	5061.3	4960.0	4879.5	4819.8	4812.0	4762.7	4630.2	4419.9	4079.7
22.5°	5063.9	5079.5	5037.9	4978.2	4939.3	4957.4	4944.4	4986.0	4915.9	4661.4	4277.0
25°	5071.7	5087.3	5056.1	5022.4	5056.1	5167.8	5201.5	5380.7	5318.4	4967.8	4490.0
27.5°	5315.8	5347.0	5302.8	5318.4	5437.8	5697.5	5762.5	6071.5	5796.2	5357.3	4822.4
30°	5858.5	5837.8	5754.7	5830.0	6245.5	6796.0	6777.8	6728.5	6297.4	5806.6	5217.1
32.5°	6351.9	6333.8	6328.6	6653.2	7406.3	7673.8	7660.8	7182.9	6746.7	6320.8	5606.6
35°	6551.9	6481.8	6466.2	7253.1	8512.5	8159.4	8078.9	7369.9	7292.0	6881.7	6004.0
37.5°	7154.4	7105.0	6863.5	7351.7	8071.1	7954.2	7891.9	7691.9	7873.7	7377.7	6453.2
40°	8395.7	8258.1	8039.9	7562.1	7445.2	7494.6	7556.9	8104.8	8561.9	8055.5	7053.1
42.5°	9938.2	9907.1	9502.0	8611.2	7736.1	7803.6	7884.1	8967.0	9551.3	9076.1	8032.1
45°	11789.8	11833.9	11249.6	10197.9	9050.1	9107.2	9224.1	10239.5	10891.3	10662.8	9572.1
47.5°	13472.6	13438.8	13241.4	12148.2	11088.6	10961.4	11151.0	11872.9	12745.4	12781.8	11483.4
50°	15165.7	15344.9	15051.5	14623.0	13836.1	13568.7	13498.5	13851.7	15181.3	15007.3	13779.0
52.5°	17599.0	17692.5	17142.0	17032.9	17212.1	16344.7	16274.6	16360.3	17549.7	16952.4	15498.1
55°	19128.6	19074.0	18868.9	19720.6	20429.6	19346.7	19258.4	18913.0	19515.5	18326.1	17152.3
57.5°	19611.6	19689.5	20167.3	21707.3	23384.8	22465.5	22304.5	21322.9	20933.4	19606.4	18674.1
60°	19396.0	19538.9	20569.8	22860.3	25187.1	25049.4	24911.8	23262.8	21951.4	20676.3	19741.4
62.5°	17861.3	18061.2	19710.3	22655.1	25797.3	26656.9	26485.5	24472.9	22629.1	21195.7	19928.4
65°	14968.4	15116.4	17484.7	20793.2	24930.0	27207.4	27145.1	24852.1	22735.6	20720.4	18648.1
67.5°	10670.5	11174.3	13368.7	17523.7	22364.3	26267.4	26373.8	24397.6	21735.8	18666.3	15443.6
70°	6707.7	7050.5	8624.2	12545.5	17928.8	23044.6	23395.2	22317.5	18863.7	14550.3	10338.1
72.5°	3199.3	3453.8	4575.7	7941.2	12654.6	18131.4	18409.2	18320.9	14586.6	9167.0	5334.0
75°	1425.7	1521.8	2184.0	4053.7	8169.8	12187.1	12906.5	13025.9	9115.0	4484.8	2074.9
77.5°	727.1	729.7	1023.2	1963.2	4079.7	7271.2	7414.1	7832.2	4941.8	1976.2	721.9
80°	386.9	412.9	542.7	927.1	2116.5	3581.1	3562.9	3916.1	2191.8	968.6	241.5
82.5°	174.0	192.2	306.4	485.6	1033.6	1358.2	1464.6	1602.3	940.1	618.1	106.5
85°	51.9	62.3	150.6	244.1	373.9	392.1	438.9	566.1	532.4	438.9	54.5
87.5°	7.8	7.8	62.3	67.5	54.5	70.1	72.7	80.5	171.4	161.0	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P457902

CATALOG NUMBER: GALN-SA9B-730-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0	3163.0
2.5°	3168.2	3150.0	3085.1	3030.5	2983.8	2955.2	2921.5	2900.7	2890.3	2882.5	2885.1
5°	3181.2	3137.0	3025.4	2937.1	2869.5	2796.8	2747.5	2718.9	2705.9	2685.2	2685.2
7.5°	3253.9	3183.8	3028.0	2892.9	2776.1	2677.4	2583.9	2550.1	2526.8	2521.6	2516.4
10°	3357.8	3269.5	3056.5	2869.5	2703.3	2568.3	2435.9	2319.0	2228.1	2173.6	2165.8
12.5°	3487.6	3360.4	3100.7	2854.0	2641.0	2402.1	2051.5	1815.2	1656.8	1607.5	1615.3
15°	3607.1	3469.4	3144.8	2841.0	2526.8	1991.8	1594.5	1324.4	1243.9	1236.1	1238.7
17.5°	3749.9	3586.3	3196.7	2822.8	2212.5	1521.8	1184.2	1111.5	1127.0	1153.0	1150.4
20°	3897.9	3710.9	3259.1	2713.7	1765.9	1145.2	1046.5	1054.3	1077.7	1101.1	1106.3
22.5°	4056.3	3853.8	3331.8	2451.4	1347.8	997.2	992.0	1002.4	1025.8	1051.7	1056.9
25°	4274.5	4032.9	3386.3	2108.7	1020.6	921.9	932.3	950.5	971.2	999.8	1005.0
27.5°	4554.9	4274.5	3414.9	1662.0	882.9	854.4	857.0	882.9	908.9	934.9	934.9
30°	4918.5	4562.7	3357.8	1256.9	815.4	789.4	779.1	794.6	828.4	854.4	857.0
32.5°	5243.1	4835.4	3207.1	960.8	766.1	729.7	703.8	706.3	719.3	734.9	737.5
35°	5567.7	5100.3	2950.0	807.6	714.1	672.6	633.6	612.9	602.5	594.7	602.5
37.5°	5983.2	5430.1	2607.3	734.9	670.0	618.1	563.5	519.4	483.0	459.6	464.8
40°	6518.1	5887.1	2202.1	688.2	628.4	566.1	493.4	436.3	373.9	353.2	342.8
42.5°	7401.1	6580.5	1776.3	649.2	586.9	511.6	420.7	342.8	285.7	264.9	270.1
45°	8795.6	7455.6	1368.6	607.7	545.3	451.9	353.2	270.1	223.3	212.9	218.1
47.5°	10644.6	8587.9	1054.3	560.9	493.4	386.9	277.9	212.9	184.4	181.8	179.2
50°	12384.5	9642.2	880.3	509.0	431.1	322.0	228.5	179.2	161.0	158.4	158.4
52.5°	13958.2	10397.9	716.7	449.3	363.6	264.9	192.2	158.4	142.8	135.0	135.0
55°	15357.9	10891.3	581.7	376.5	285.7	210.3	166.2	142.8	124.6	114.3	111.7
57.5°	16414.8	10951.0	436.3	301.2	212.9	163.6	142.8	124.6	103.9	90.9	85.7
60°	16866.7	10434.2	322.0	228.5	158.4	129.8	114.3	101.3	77.9	64.9	62.3
62.5°	16412.2	9429.2	238.9	174.0	122.1	96.1	80.5	75.3	54.5	39.0	36.4
65°	14784.0	7977.6	189.6	132.4	90.9	70.1	51.9	49.3	33.8	18.2	15.6
67.5°	11844.3	6248.1	150.6	98.7	64.9	46.7	33.8	31.2	18.2	5.2	5.2
70°	7702.3	3994.0	122.1	72.7	41.5	31.2	20.8	15.6	10.4	2.6	0.0
72.5°	3809.6	1867.2	98.7	57.1	28.6	15.6	7.8	5.2	7.8	0.0	0.0
75°	1477.6	664.8	72.7	39.0	15.6	7.8	5.2	0.0	2.6	0.0	0.0
77.5°	490.8	220.7	44.1	20.8	10.4	5.2	0.0	0.0	0.0	0.0	0.0
80°	181.8	85.7	23.4	13.0	5.2	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	72.7	33.8	15.6	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.4	20.8	10.4	7.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.0	15.6	10.4	7.8	5.2	2.6	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)