

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: P456974

Luminaire Tested: **GALN-SA8B-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456974  
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-SA8B-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 30271 lumens  
Efficiency: N/A  
Efficacy: 93.1 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

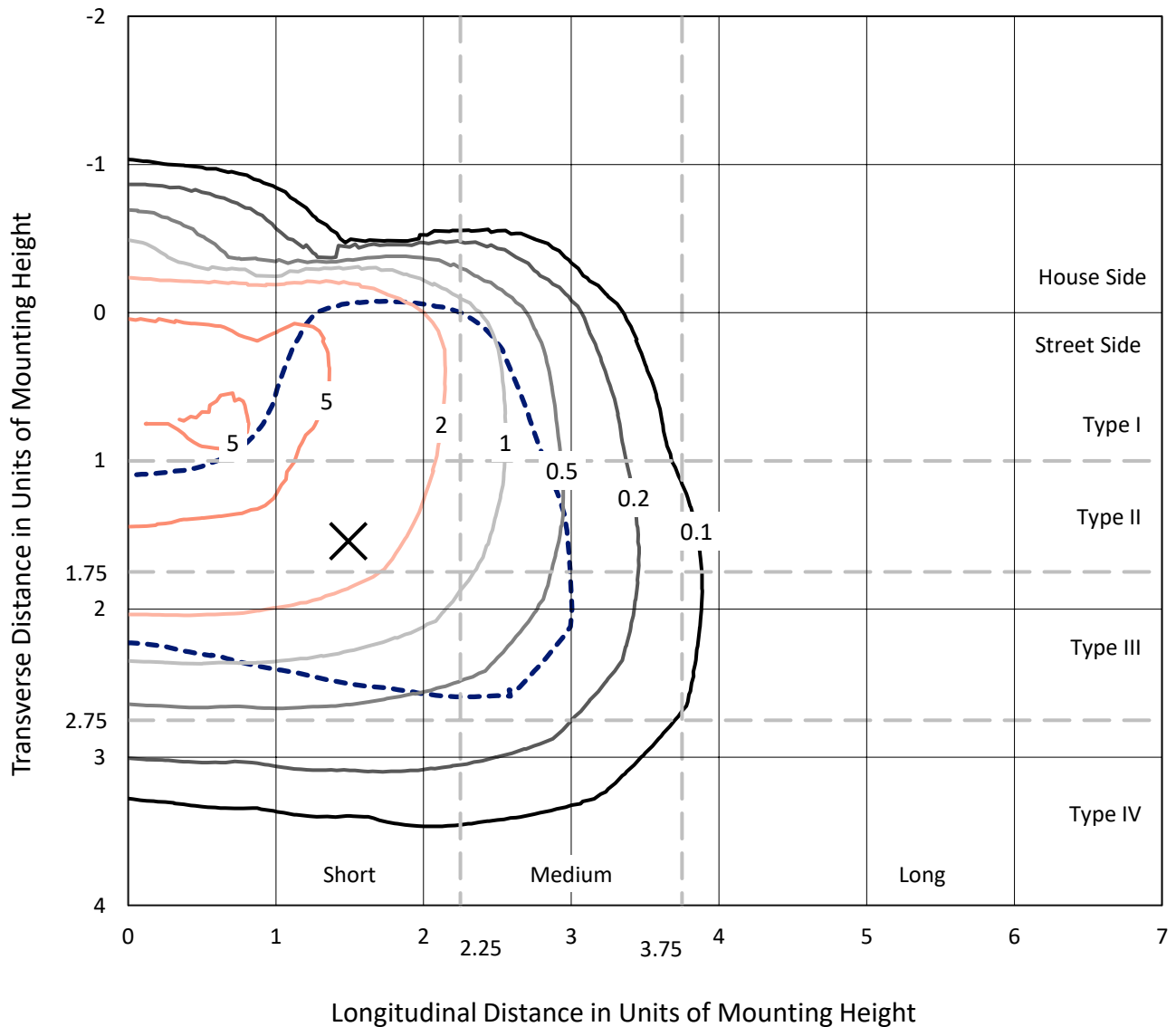
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456974  
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### Iso-Footcandle Lines of Horizontal Illumination

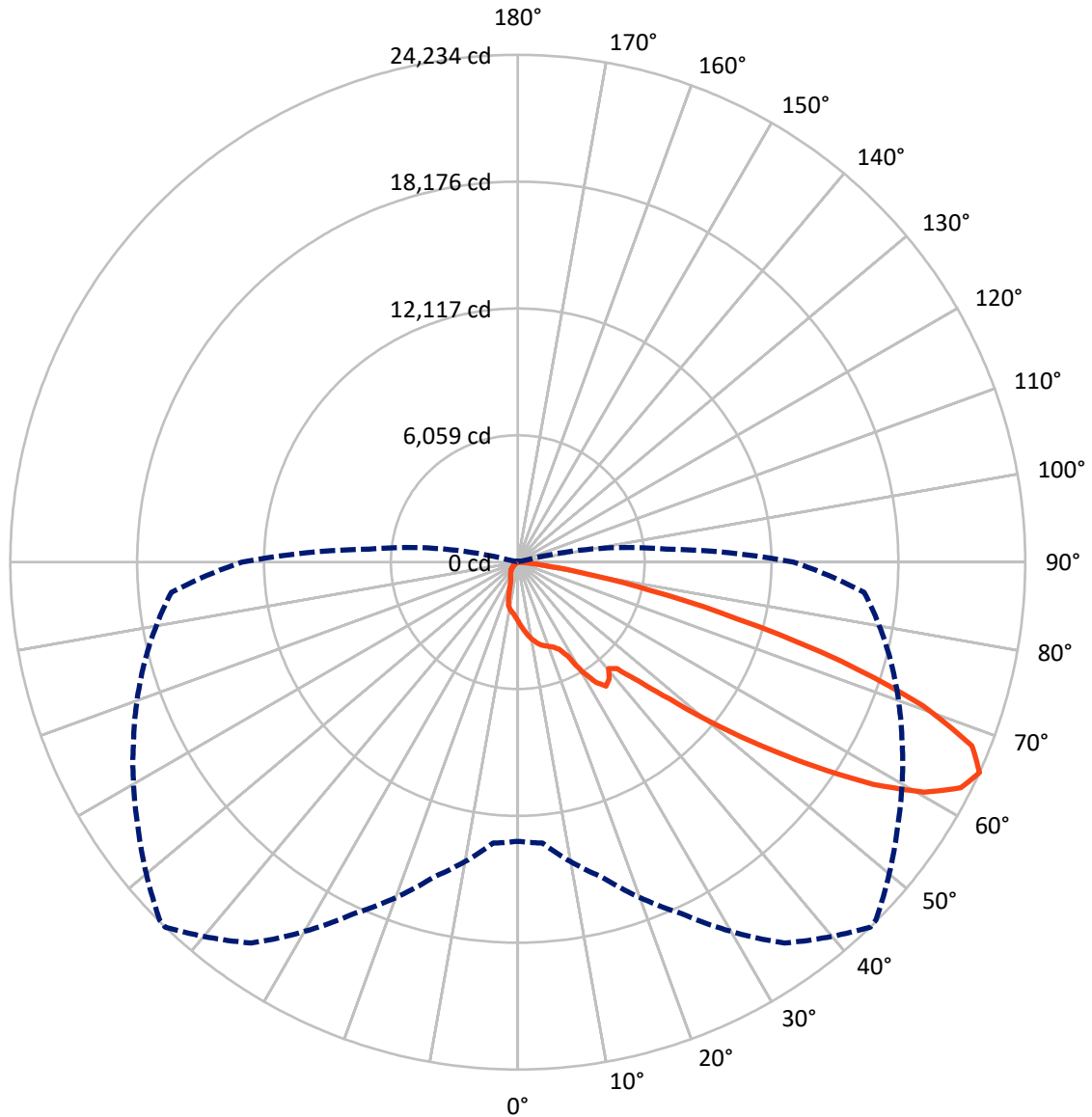
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P456974  
CATALOG NUMBER: GALN-SA8B-730-U-T4W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P456974

CATALOG NUMBER: GALN-SA8B-730-U-T4W-HSS

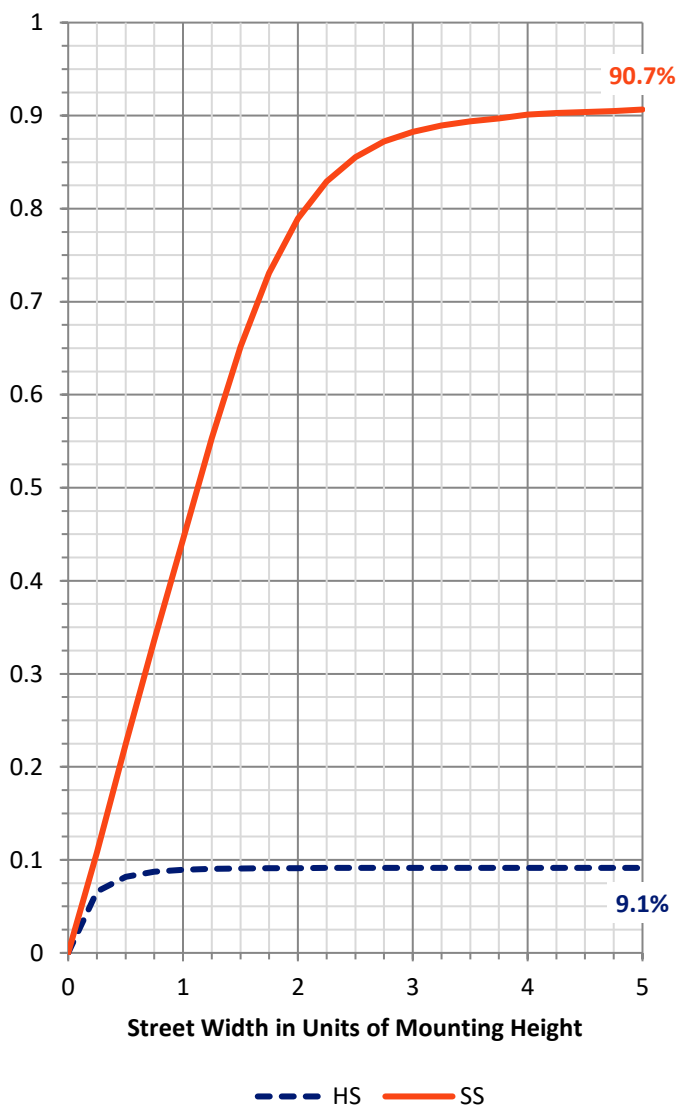
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2789.0	0.0	2789.0
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	27482.0	0.0	27482.0
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	30271.0	0.0	30271.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	0.9
10°-20°	843.3	2.8
20°-30°	1430.0	4.7
30°-40°	2377.6	7.9
40°-50°	4151.4	13.7
50°-60°	8110.4	26.8
60°-70°	9409.9	31.1
70°-80°	3426.6	11.3
80°-90°	241.4	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°	30271.0	100.0
0°-180°	30271.0	100.0



REPORT NUMBER: P456974

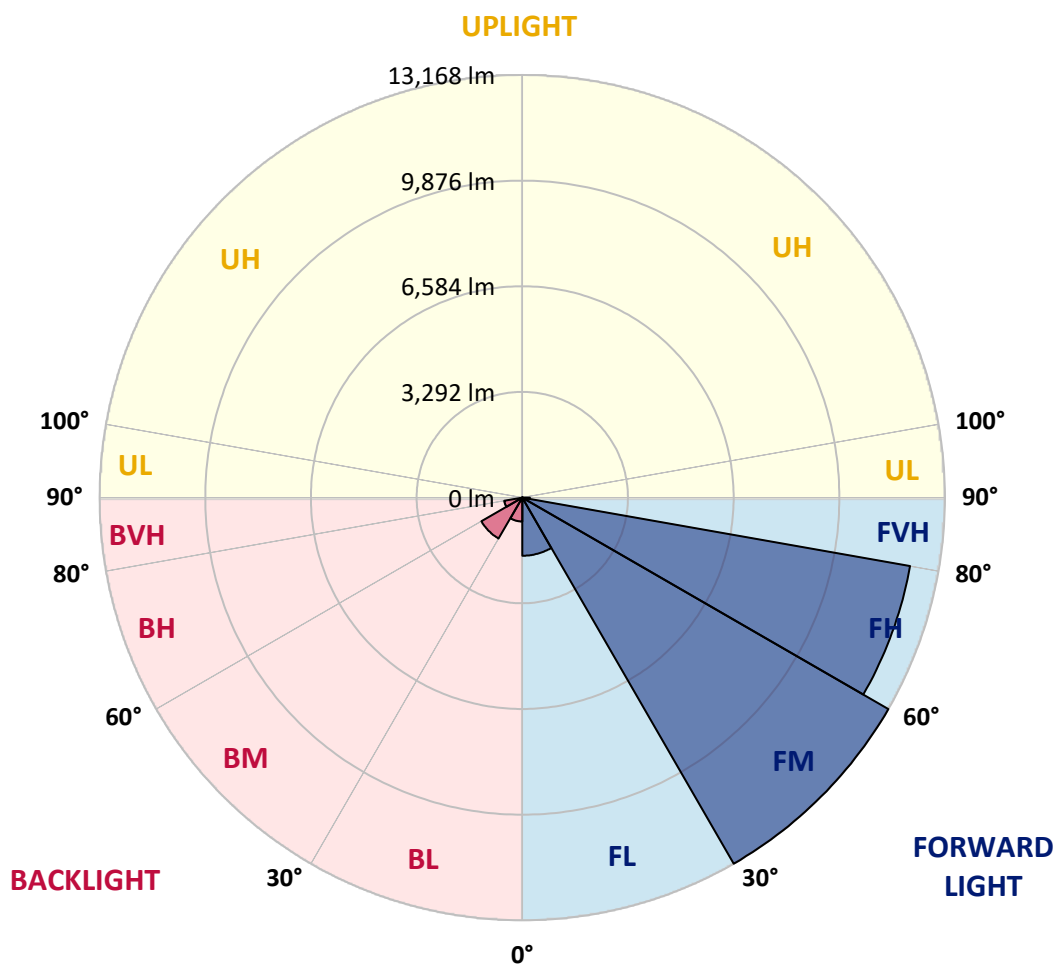
CATALOG NUMBER: GALN-SA8B-730-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1810.5	6.0			
FM (30°-60°)	13167.9	43.5			
FH (60°-80°)	12265.4	40.5			G5
FVH (80°-90°)	238.2	0.8			G3/500
BL (0°-30°)	743.1	2.5	B2/1000		
BM (30°-60°)	1471.5	4.9	B2/2500		
BH (60°-80°)	571.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.3	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: P456974

CATALOG NUMBER: GALN-SA8B-730-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3
2.5°	3171.2	3157.3	3150.4	3113.4	3085.6	3050.9	3050.9	3007.0	2956.1	2900.6	2849.7
5°	3525.1	3502.0	3471.9	3439.5	3374.8	3282.3	3282.3	3189.7	3083.3	2988.5	2884.4
7.5°	3865.2	3844.3	3793.4	3731.0	3624.6	3527.4	3520.5	3386.3	3259.1	3115.7	2967.7
10°	4163.5	4147.3	4103.4	3983.1	3872.1	3744.9	3742.6	3592.2	3444.2	3268.4	3085.6
12.5°	4371.7	4374.0	4316.2	4200.5	4057.1	3936.9	3927.6	3779.6	3624.6	3434.9	3210.6
15°	4519.8	4519.8	4459.6	4330.1	4200.5	4094.1	4084.9	3955.4	3795.8	3589.9	3347.0
17.5°	4561.4	4575.3	4510.5	4394.8	4290.8	4198.2	4195.9	4087.2	3960.0	3761.1	3485.8
20°	4545.2	4559.1	4508.2	4418.0	4346.3	4293.1	4286.1	4242.2	4124.2	3936.9	3633.8
22.5°	4510.5	4524.4	4487.4	4434.2	4399.5	4415.7	4404.1	4441.1	4378.7	4152.0	3809.6
25°	4517.4	4531.3	4503.6	4473.5	4503.6	4603.0	4633.1	4792.7	4737.2	4424.9	3999.3
27.5°	4734.9	4762.6	4723.3	4737.2	4843.6	5074.9	5132.7	5408.0	5162.8	4771.9	4295.4
30°	5218.3	5199.8	5125.8	5192.9	5562.9	6053.3	6037.1	5993.2	5609.2	5172.0	4647.0
32.5°	5657.8	5641.6	5637.0	5926.1	6596.9	6835.1	6823.6	6398.0	6009.4	5630.0	4993.9
35°	5835.9	5773.4	5759.6	6460.4	7582.3	7267.7	7196.0	6564.5	6495.1	6129.7	5347.8
37.5°	6372.5	6328.6	6113.5	6548.3	7189.0	7085.0	7029.4	6851.3	7013.2	6571.5	5748.0
40°	7478.2	7355.6	7161.3	6735.7	6631.6	6675.5	6731.1	7219.1	7626.2	7175.2	6282.3
42.5°	8852.1	8824.4	8463.5	7670.2	6890.7	6950.8	7022.5	7987.1	8507.5	8084.2	7154.3
45°	10501.4	10540.7	10020.2	9083.5	8061.1	8112.0	8216.0	9120.5	9701.0	9497.5	8526.0
47.5°	12000.2	11970.2	11794.4	10820.6	9876.8	9763.5	9932.4	10575.4	11352.6	11385.0	10228.4
50°	13508.4	13668.0	13406.6	13024.9	12324.1	12085.8	12023.4	12338.0	13522.2	13367.3	12273.2
52.5°	15675.7	15759.0	15268.6	15171.5	15331.1	14558.5	14496.1	14572.4	15631.8	15099.8	13804.4
55°	17038.1	16989.5	16806.8	17565.5	18197.0	17232.4	17153.8	16846.1	17382.8	16323.4	15277.9
57.5°	17468.4	17537.7	17963.4	19335.0	20829.3	20010.4	19867.0	18992.7	18645.7	17463.7	16633.3
60°	17276.4	17403.6	18321.9	20362.0	22434.5	22311.9	22189.3	20720.5	19552.4	18416.7	17584.0
62.5°	15909.3	16087.4	17556.3	20179.3	22978.1	23743.7	23591.1	21798.4	20156.1	18879.3	17750.6
65°	13332.6	13464.4	15573.9	18520.8	22205.5	24234.1	24178.6	22136.1	20251.0	18456.0	16610.2
67.5°	9504.4	9953.2	11907.7	15608.6	19920.2	23396.8	23491.6	21731.4	19360.5	16626.4	13755.9
70°	5974.7	6280.0	7681.7	11174.5	15969.5	20526.2	20838.5	19878.6	16802.2	12960.2	9208.4
72.5°	2849.7	3076.4	4075.6	7073.4	11271.6	16149.9	16397.4	16318.8	12992.6	8165.2	4751.1
75°	1269.9	1355.5	1945.3	3610.7	7276.9	10855.3	11496.0	11602.4	8118.9	3994.7	1848.1
77.5°	647.7	650.0	911.4	1748.7	3633.8	6476.6	6603.8	6976.2	4401.8	1760.3	643.0
80°	344.6	367.8	483.4	825.8	1885.2	3189.7	3173.5	3488.1	1952.2	862.8	215.1
82.5°	155.0	171.2	272.9	432.5	920.6	1209.7	1304.6	1427.2	837.3	550.5	94.8
85°	46.3	55.5	134.2	217.4	333.1	349.3	390.9	504.3	474.2	390.9	48.6
87.5°	6.9	6.9	55.5	60.1	48.6	62.5	64.8	71.7	152.7	143.4	25.4
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: P456974

CATALOG NUMBER: GALN-SA8B-730-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3
2.5°	2822.0	2805.8	2747.9	2699.4	2657.7	2632.3	2602.2	2583.7	2574.5	2567.5	2569.8
5°	2833.5	2794.2	2694.7	2616.1	2555.9	2491.2	2447.2	2421.8	2410.2	2391.7	2391.7
7.5°	2898.3	2835.8	2697.0	2576.8	2472.7	2384.8	2301.5	2271.4	2250.6	2246.0	2241.4
10°	2990.8	2912.2	2722.5	2555.9	2407.9	2287.6	2169.7	2065.6	1984.6	1936.0	1929.1
12.5°	3106.5	2993.1	2761.8	2542.1	2352.4	2139.6	1827.3	1616.8	1475.7	1431.8	1438.7
15°	3212.9	3090.3	2801.1	2530.5	2250.6	1774.1	1420.2	1179.7	1108.0	1101.0	1103.3
17.5°	3340.1	3194.4	2847.4	2514.3	1970.7	1355.5	1054.8	990.0	1003.9	1027.0	1024.7
20°	3471.9	3305.4	2902.9	2417.2	1572.9	1020.1	932.2	939.1	959.9	980.7	985.4
22.5°	3613.0	3432.6	2967.7	2183.5	1200.5	888.2	883.6	892.8	913.7	936.8	941.4
25°	3807.3	3592.2	3016.3	1878.2	909.0	821.1	830.4	846.6	865.1	890.5	895.2
27.5°	4057.1	3807.3	3041.7	1480.4	786.4	761.0	763.3	786.4	809.6	832.7	832.7
30°	4381.0	4064.1	2990.8	1119.5	726.3	703.2	693.9	707.8	737.9	761.0	763.3
32.5°	4670.1	4306.9	2856.6	855.8	682.4	650.0	626.8	629.2	640.7	654.6	656.9
35°	4959.2	4542.9	2627.7	719.4	636.1	599.1	564.4	545.9	536.6	529.7	536.6
37.5°	5329.3	4836.6	2322.3	654.6	596.8	550.5	501.9	462.6	430.2	409.4	414.0
40°	5805.8	5243.7	1961.5	613.0	559.8	504.3	439.5	388.6	333.1	314.6	305.3
42.5°	6592.3	5861.3	1582.1	578.3	522.8	455.7	374.7	305.3	254.4	235.9	240.6
45°	7834.4	6640.8	1219.0	541.3	485.7	402.5	314.6	240.6	198.9	189.7	194.3
47.5°	9481.3	7649.3	939.1	499.6	439.5	344.6	247.5	189.7	164.2	161.9	159.6
50°	11031.1	8588.5	784.1	453.4	384.0	286.8	203.6	159.6	143.4	141.1	141.1
52.5°	12432.8	9261.6	638.4	400.2	323.8	235.9	171.2	141.1	127.2	120.3	120.3
55°	13679.5	9701.0	518.1	335.4	254.4	187.4	148.0	127.2	111.0	101.8	99.5
57.5°	14621.0	9754.2	388.6	268.3	189.7	145.7	127.2	111.0	92.5	81.0	76.3
60°	15023.4	9293.9	286.8	203.6	141.1	115.7	101.8	90.2	69.4	57.8	55.5
62.5°	14618.6	8398.8	212.8	155.0	108.7	85.6	71.7	67.1	48.6	34.7	32.4
65°	13168.3	7105.8	168.9	118.0	81.0	62.5	46.3	43.9	30.1	16.2	13.9
67.5°	10549.9	5565.3	134.2	87.9	57.8	41.6	30.1	27.8	16.2	4.6	4.6
70°	6860.6	3557.5	108.7	64.8	37.0	27.8	18.5	13.9	9.3	2.3	0.0
72.5°	3393.3	1663.1	87.9	50.9	25.4	13.9	6.9	4.6	6.9	0.0	0.0
75°	1316.1	592.1	64.8	34.7	13.9	6.9	4.6	0.0	2.3	0.0	0.0
77.5°	437.2	196.6	39.3	18.5	9.3	4.6	0.0	0.0	0.0	0.0	0.0
80°	161.9	76.3	20.8	11.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	64.8	30.1	13.9	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.4	18.5	9.3	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.1	13.9	9.3	6.9	4.6	2.3	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)