

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: P651030

Luminaire Tested: **GALN-SA7C-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 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: 30786.5 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

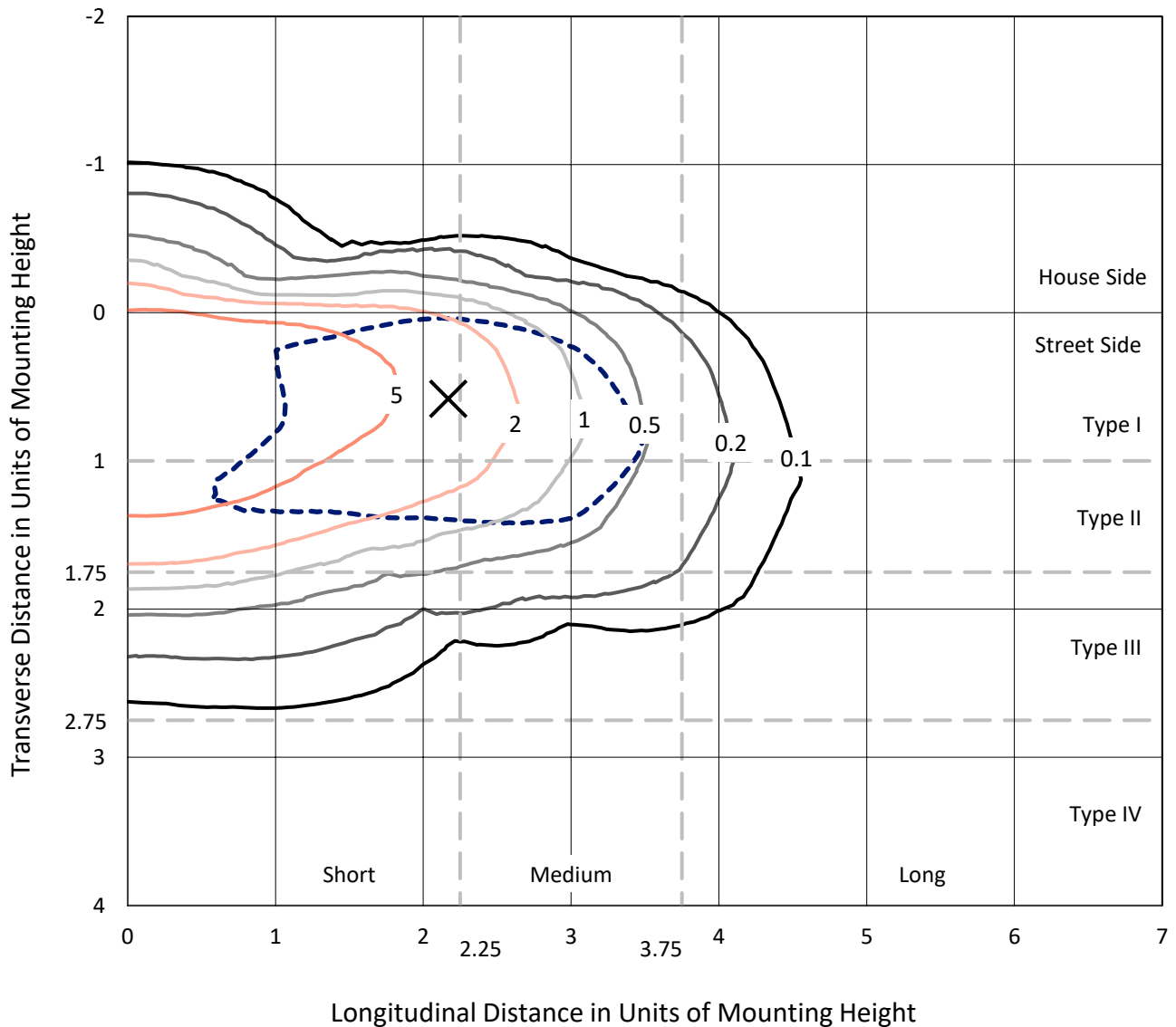
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

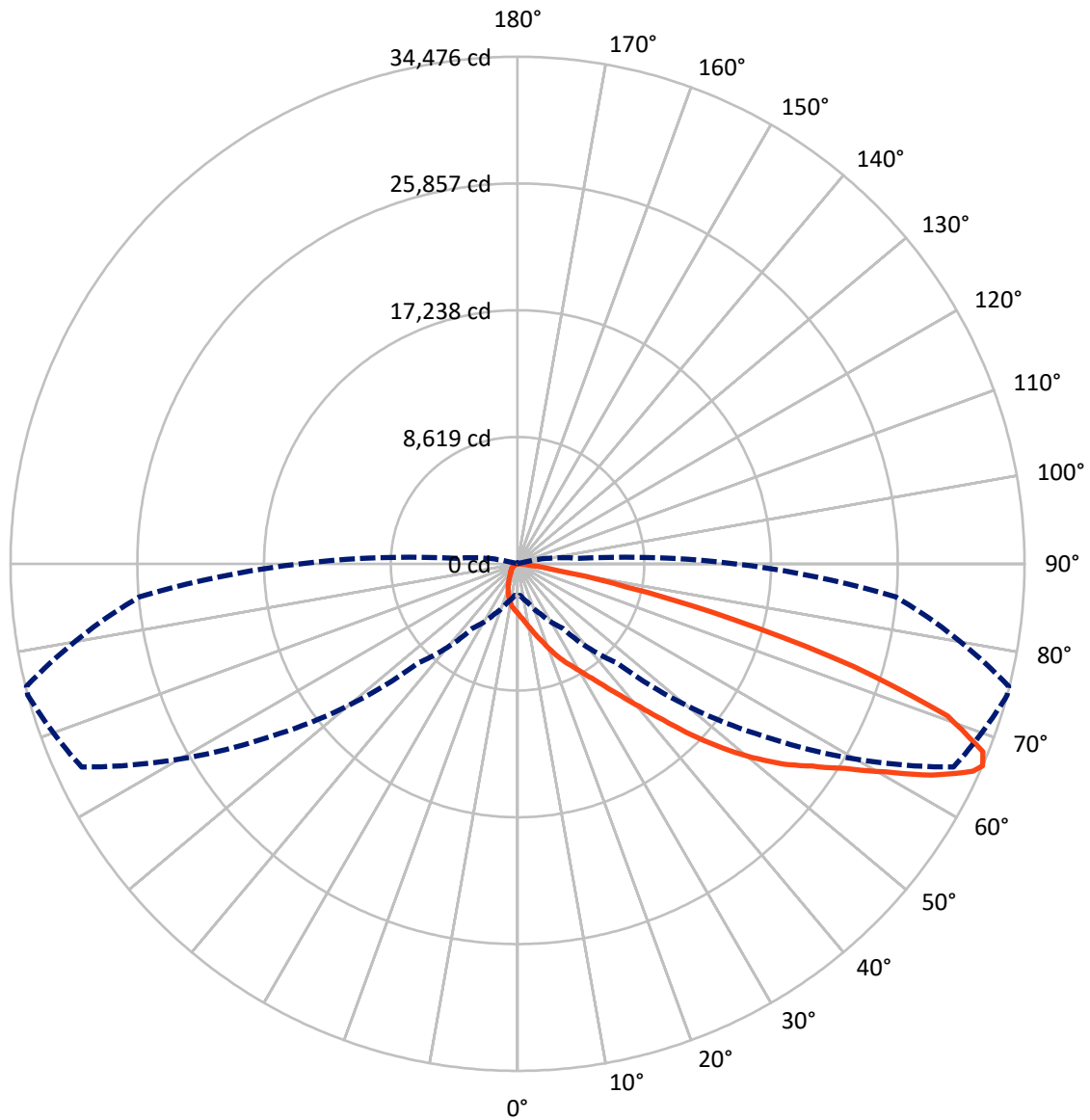
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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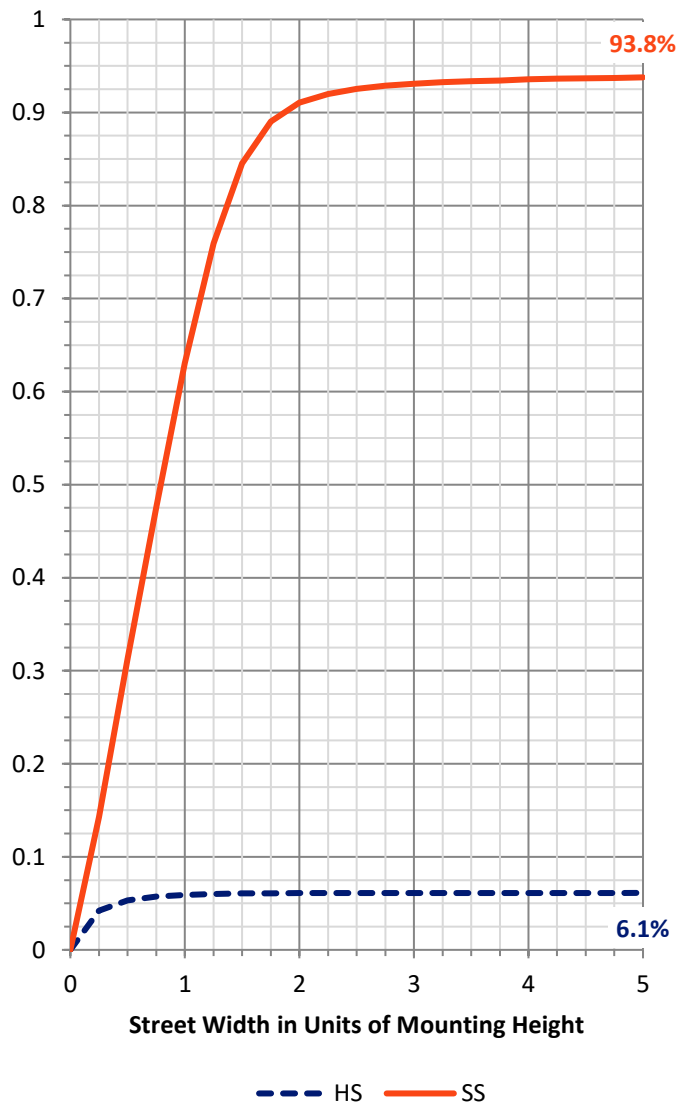
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1900.6	0.0	1900.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	28885.8	0.0	28885.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	30786.5	0.0	30786.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.7	1.1
10°-20°	955.7	3.1
20°-30°	1650.3	5.4
30°-40°	2976.8	9.7
40°-50°	5377.7	17.5
50°-60°	8383.8	27.2
60°-70°	7964.3	25.9
70°-80°	2984.8	9.7
80°-90°	168.4	0.5
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°	30786.5	100.0
0°-180°	30786.5	100.0

**Coefficient of Utilization**

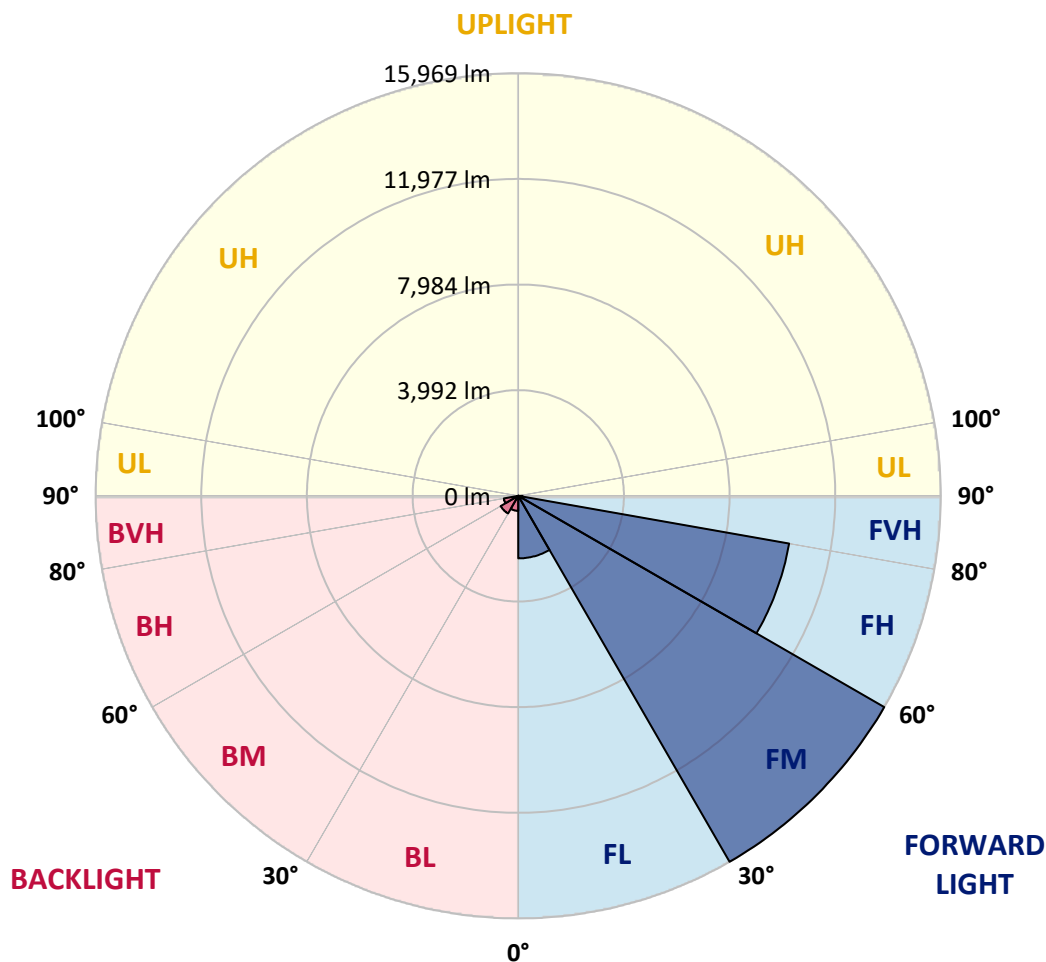


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2363.1	7.7			
FM (30°-60°)	15968.9	51.9			
FH (60°-80°)	10394.1	33.8			G4/12000
FVH (80°-90°)	159.7	0.5			G2/225
BL (0°-30°)	567.6	1.8	B2/1000		
BM (30°-60°)	769.3	2.5	B1/1000		
BH (60°-80°)	555.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.7	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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8
2.5°	4022.4	3972.3	3988.3	3965.5	3913.2	3835.7	3767.4	3669.5	3571.6	3555.7	3446.5
5°	4552.8	4539.1	4521.0	4454.9	4418.5	4300.1	4159.0	3990.5	3787.9	3751.5	3553.5
7.5°	4914.8	4907.9	4917.1	4882.9	4851.1	4744.0	4593.8	4363.9	4049.8	4029.2	3699.1
10°	5033.1	5051.4	5085.5	5140.1	5190.2	5156.1	5042.2	4755.4	4388.9	4329.7	3865.3
12.5°	4964.8	4985.4	5067.3	5212.9	5374.6	5467.9	5422.4	5212.9	4748.6	4700.8	4052.0
15°	4789.6	4814.6	4930.7	5156.1	5445.1	5709.2	5823.1	5672.8	5167.4	5090.1	4277.4
17.5°	4530.0	4566.5	4732.6	5030.9	5427.0	5882.2	6203.2	6153.1	5613.6	5540.8	4523.2
20°	4334.3	4361.6	4502.7	4844.2	5349.5	5977.8	6565.2	6706.3	6164.5	6039.3	4812.3
22.5°	4464.0	4473.1	4521.0	4725.8	5210.7	6002.9	6883.8	7282.2	6749.5	6638.0	5112.8
25°	5099.2	5008.1	4960.3	4914.8	5181.1	5980.1	7173.0	7883.2	7332.3	7213.9	5411.0
27.5°	6100.8	6059.8	5818.5	5495.3	5433.8	6009.7	7364.2	8452.3	7880.9	7753.4	5702.4
30°	7191.1	7120.6	6972.6	6499.2	6023.4	6219.1	7503.1	9005.4	8529.7	8361.2	5968.7
32.5°	8192.8	8238.4	8017.5	7530.3	6979.5	6665.3	7682.9	9608.7	9274.0	9064.6	6278.3
35°	9360.6	9451.7	9112.5	8645.8	8001.6	7471.2	8033.4	10289.4	10218.8	9954.7	6756.3
37.5°	10546.6	10601.2	10394.1	9738.4	9158.0	8495.5	8693.6	11129.4	11382.0	11156.7	7327.7
40°	11543.7	11618.8	11466.3	10883.5	10264.3	9681.6	9652.0	12044.5	12766.1	12533.9	8179.1
42.5°	12306.3	12363.2	12367.7	11955.7	11398.0	11133.9	10874.4	13212.3	14500.7	14232.1	9167.1
45°	13269.2	13351.1	13303.4	13023.3	12606.8	12558.9	12424.6	14623.6	16576.8	16237.6	10448.8
47.5°	14758.0	14812.6	14694.2	14364.1	13940.8	14015.9	13936.1	16205.7	18693.8	18402.5	11775.9
50°	15791.5	15882.5	16051.0	16182.9	15875.6	15597.9	15361.2	17683.1	20703.9	20442.1	13132.6
52.5°	15780.0	15930.3	16463.0	17127.7	17799.3	17715.0	17034.4	19315.3	22622.9	22299.7	14407.4
55°	14717.0	15008.3	15791.5	16970.6	18830.4	19756.9	19447.4	21204.7	24280.2	24061.6	15884.8
57.5°	12522.5	12700.1	13788.2	15436.3	18254.5	20717.6	22242.8	23765.7	26267.5	26165.0	18179.4
60°	8422.7	8502.3	9902.4	11939.8	15541.0	19759.2	24291.5	26863.9	28714.6	28664.6	20858.7
62.5°	4826.0	4860.1	5875.4	7594.1	11058.8	16745.2	24464.5	30686.0	31648.9	31676.2	23959.2
65°	2597.3	2615.6	3435.1	4457.2	6729.1	11935.2	21999.2	32780.2	34020.9	34073.3	25880.5
66°	2242.3	2155.7	2734.0	3799.3	5354.1	9499.4	20439.8	32705.1	34476.2	34419.3	25812.2
67.5°	1705.0	1782.4	2183.1	2920.6	3967.8	6754.1	16875.0	31250.6	34130.2	33952.6	24762.7
70°	1220.1	1252.0	1554.8	2082.9	2702.1	3706.0	10783.3	25955.6	31020.6	30781.6	21573.5
72.5°	787.6	821.7	1101.8	1507.0	1953.1	2023.7	6037.0	18753.0	23915.9	23881.8	16246.7
75°	562.3	594.2	728.5	1079.0	1468.3	1252.0	2907.0	12638.6	15204.1	15101.7	10050.4
77.5°	407.5	423.4	487.2	705.7	1049.4	896.9	1347.6	6749.5	7569.1	7926.4	4441.2
80°	234.5	248.1	339.2	430.3	710.2	612.3	644.2	2708.9	2793.1	2658.8	1388.6
82.5°	116.1	132.0	202.6	293.7	443.9	412.0	295.9	814.9	860.5	837.7	350.5
85°	27.3	34.1	113.8	193.5	216.2	184.3	143.4	239.0	295.9	289.1	134.3
87.5°	2.3	4.5	41.0	34.1	36.4	61.5	50.0	61.5	95.6	88.8	47.8
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°	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8	3366.8
2.5°	3396.4	3353.2	3227.9	3105.1	3002.6	2895.6	2797.7	2740.8	2718.0	2693.0	2704.4
5°	3444.2	3339.5	3086.8	2868.3	2654.3	2472.2	2326.5	2233.2	2187.6	2180.8	2169.4
7.5°	3508.0	3328.1	2936.6	2595.1	2315.1	2112.5	1946.3	1812.0	1771.1	1734.6	1705.0
10°	3585.4	3307.7	2749.9	2308.3	2010.1	1755.1	1536.6	1377.2	1295.3	1272.5	1288.4
12.5°	3667.3	3268.9	2554.1	2044.2	1700.5	1375.0	1172.4	1092.7	1069.9	1060.8	1063.1
15°	3749.3	3221.1	2349.2	1789.2	1354.4	1097.3	1003.9	983.4	974.3	969.8	965.2
17.5°	3824.4	3143.7	2119.3	1541.1	1097.3	937.9	903.7	885.5	867.3	860.5	849.1
20°	3913.2	3054.9	1912.2	1263.4	928.8	849.1	808.1	774.0	746.6	728.5	726.2
22.5°	3997.4	2941.1	1696.0	1047.1	846.8	762.6	696.6	660.2	628.3	605.5	612.3
25°	4042.9	2802.3	1502.4	912.8	771.7	676.1	603.2	557.8	523.6	512.2	509.9
27.5°	4042.9	2631.5	1313.5	835.4	703.4	598.7	523.6	480.3	457.6	441.6	443.9
30°	4011.1	2442.6	1138.2	776.2	644.2	530.4	459.9	421.2	402.9	391.6	389.3
32.5°	3986.0	2262.7	987.9	719.3	582.7	471.2	409.7	380.1	362.0	350.5	350.5
35°	4024.7	2108.0	871.9	662.5	525.9	425.7	371.0	343.7	325.6	316.4	314.1
37.5°	4127.1	1966.8	783.1	601.0	473.5	387.0	343.7	311.8	293.7	282.2	277.7
40°	4379.8	1887.1	717.0	544.0	423.4	355.2	311.8	282.2	259.5	248.1	245.8
42.5°	4785.0	1889.4	653.3	491.7	384.7	327.8	284.5	250.4	225.4	214.0	211.7
45°	5395.1	1975.9	603.2	441.6	350.5	298.2	255.0	218.6	195.8	184.3	184.3
47.5°	6125.8	2144.4	560.0	398.4	318.7	270.9	225.4	189.0	166.2	157.1	157.1
50°	6918.0	2362.9	516.7	352.9	291.4	241.3	193.5	163.9	145.7	138.8	138.8
52.5°	7726.1	2626.9	473.5	316.4	261.8	209.4	166.2	145.7	129.8	125.2	123.0
55°	8786.9	2963.9	428.0	277.7	229.9	179.8	147.9	127.5	109.2	102.4	100.2
57.5°	10419.1	3471.5	377.9	243.6	189.0	150.2	127.5	107.0	86.5	75.1	72.8
60°	12388.2	4090.7	325.6	214.0	152.6	123.0	102.4	81.9	63.7	50.0	47.8
62.5°	14232.1	4484.5	275.4	179.8	120.7	93.4	72.8	61.5	45.5	31.9	29.6
65°	15047.1	4352.5	227.7	145.7	95.6	66.0	47.8	43.2	27.3	13.6	11.4
66°	14776.2	4156.7	209.4	132.0	86.5	56.9	41.0	36.4	20.5	6.8	6.8
67.5°	13977.2	3694.6	182.1	113.8	75.1	45.5	31.9	27.3	11.4	2.3	0.0
70°	11976.2	2988.9	143.4	84.3	54.7	31.9	18.2	13.6	6.8	0.0	0.0
72.5°	9198.9	2226.3	113.8	63.7	38.7	18.2	9.1	4.5	6.8	0.0	0.0
75°	5636.4	1272.5	88.8	47.8	25.1	11.4	6.8	0.0	6.8	2.3	0.0
77.5°	2501.8	571.4	59.2	31.9	18.2	9.1	4.5	0.0	4.5	2.3	0.0
80°	632.9	186.7	34.1	22.8	13.6	6.8	2.3	0.0	4.5	4.5	2.3
82.5°	173.0	68.3	25.1	18.2	11.4	6.8	2.3	0.0	4.5	4.5	4.5
85°	68.3	31.9	22.8	18.2	13.6	6.8	2.3	0.0	4.5	4.5	4.5
87.5°	31.9	22.8	22.8	20.5	15.9	6.8	2.3	0.0	4.5	2.3	4.5
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)