

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: P456535

Luminaire Tested: **GALN-SA7D-740-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42186 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

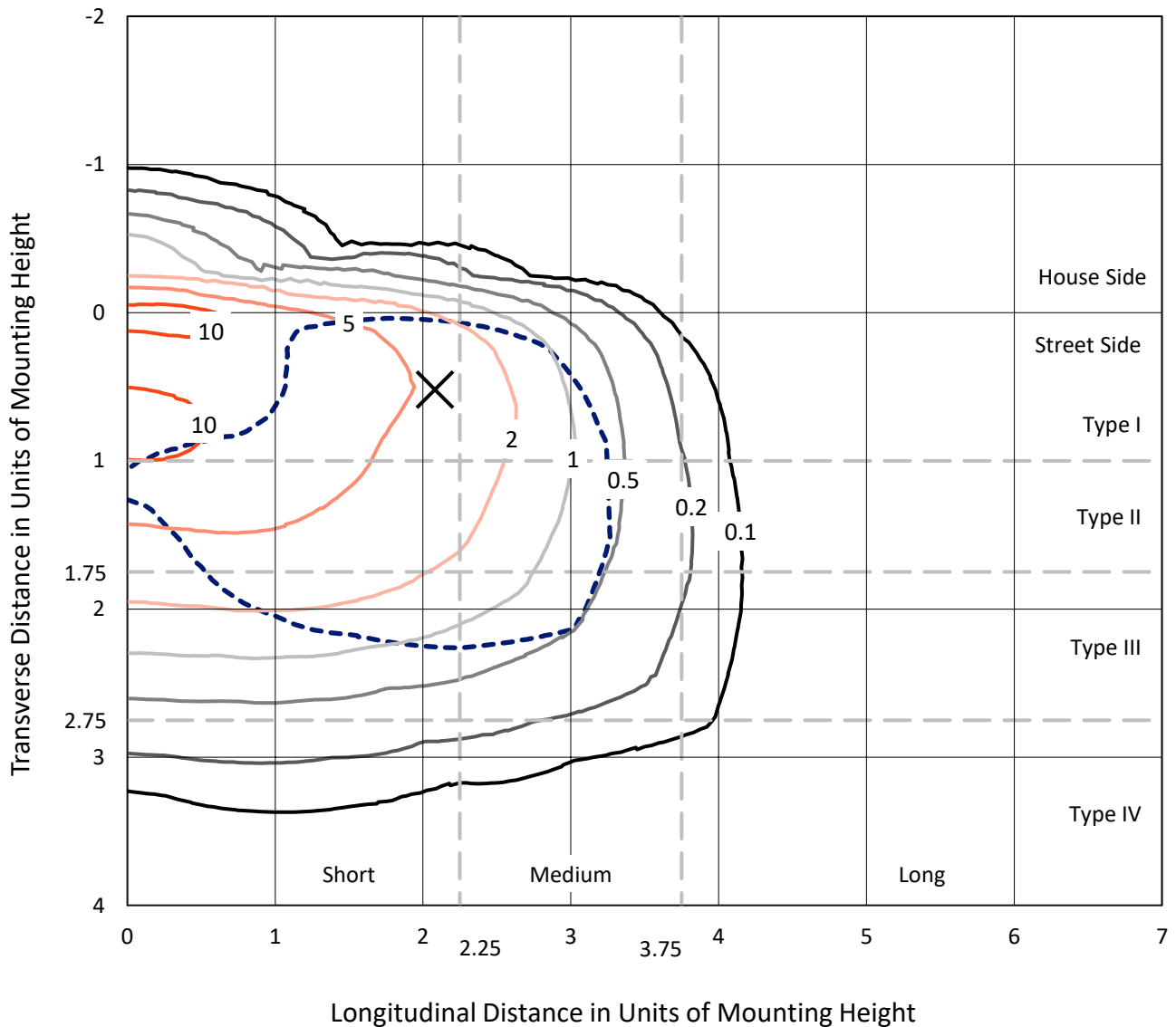
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

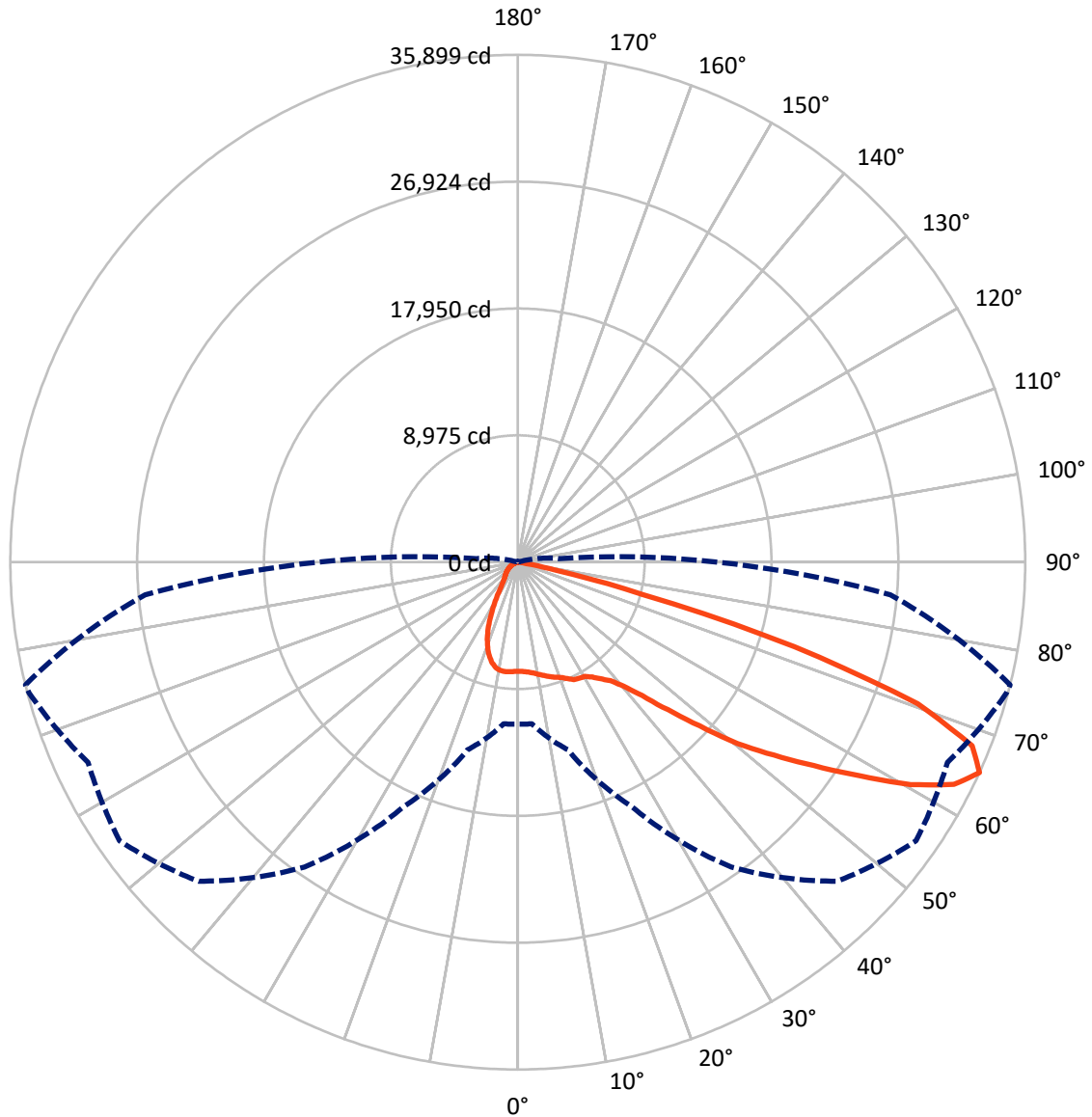
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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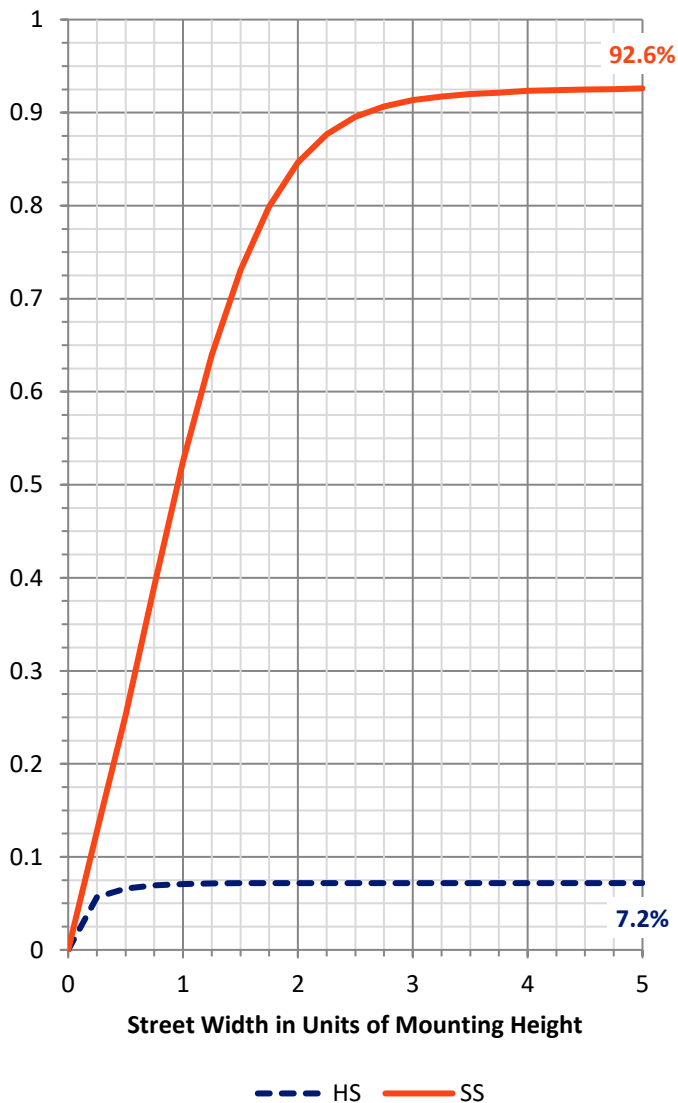
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3046.7	0.0	3046.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	39139.3	0.0	39139.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	42186.0	0.0	42186.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	635.7	1.5
10°-20°	1415.5	3.4
20°-30°	2280.9	5.4
30°-40°	3965.9	9.4
40°-50°	6553.4	15.5
50°-60°	10123.7	24.0
60°-70°	12362.5	29.3
70°-80°	4691.9	11.1
80°-90°	156.6	0.4
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°	42186.0	100.0
0°-180°	42186.0	100.0

**Coefficient of Utilization**



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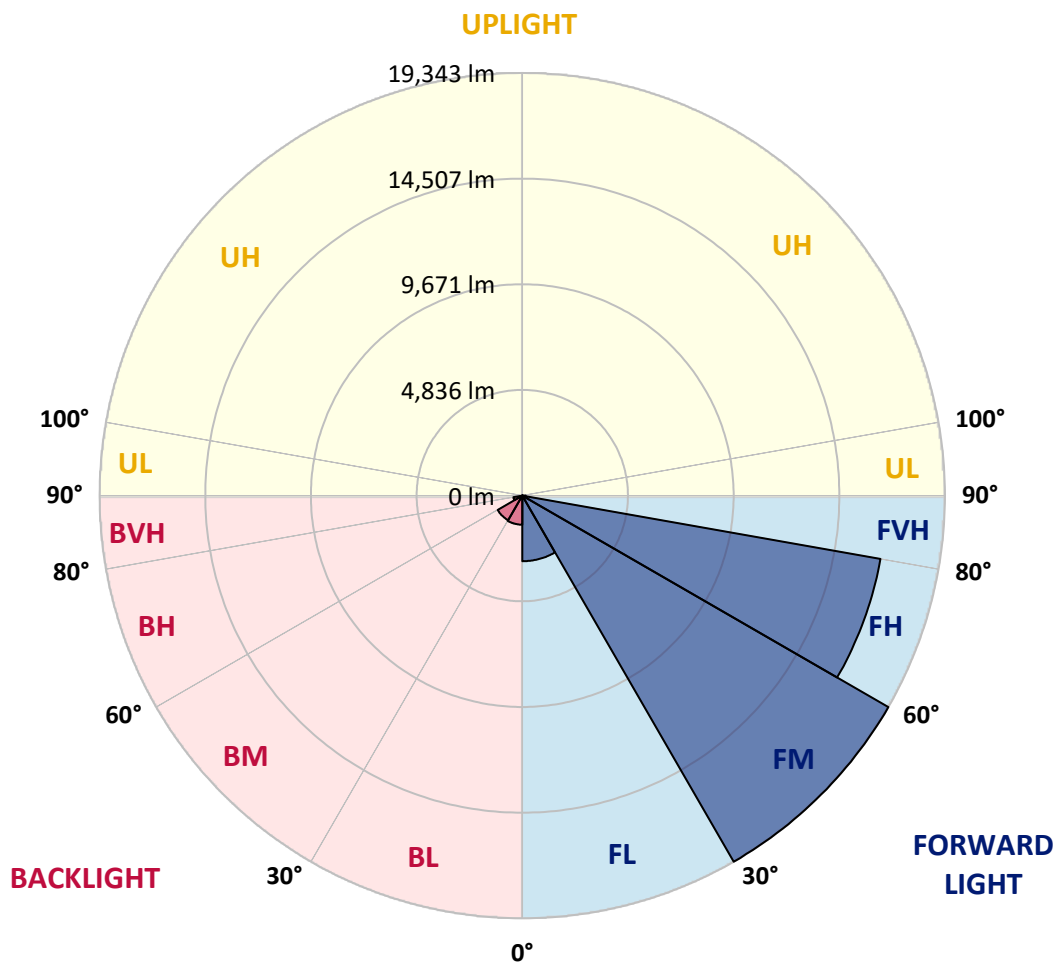
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3001.0	7.1			
FM (30°-60°)	19342.9	45.9			
FH (60°-80°)	16640.9	39.4			G5
FVH (80°-90°)	154.4	0.4			G2/225
BL (0°-30°)	1331.0	3.2	B3/2500		
BM (30°-60°)	1300.1	3.1	B2/2500		
BH (60°-80°)	413.4	1.0	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2
2.5°	7374.6	7377.6	7395.5	7440.2	7508.7	7565.3	7612.9	7690.4	7744.0	7749.9	7767.8
5°	6865.3	6829.6	6865.3	6981.5	7085.7	7243.6	7437.2	7630.8	7803.5	7815.5	7898.9
7.5°	6293.5	6323.3	6379.8	6499.0	6695.6	6936.8	7216.8	7562.3	7889.9	7919.7	8083.5
10°	5712.7	5778.2	5870.5	6052.2	6326.2	6639.0	7020.2	7514.6	8026.9	8068.6	8351.6
12.5°	5176.5	5206.3	5319.5	5563.7	5903.3	6344.1	6871.3	7487.8	8178.8	8229.5	8637.5
15°	4765.5	4804.2	4902.5	5122.9	5501.2	6067.1	6749.2	7478.9	8327.7	8399.2	8923.4
17.5°	4688.1	4711.9	4753.6	4902.5	5233.1	5846.7	6639.0	7475.9	8470.7	8557.1	9188.5
20°	5006.8	4985.9	4944.2	4929.3	5111.0	5676.9	6558.5	7499.7	8607.7	8706.0	9468.5
22.5°	5805.0	5831.8	5587.6	5298.7	5239.1	5650.1	6546.6	7612.9	8825.1	8941.3	9781.2
25°	7499.7	7294.2	6913.0	6222.0	5700.8	5813.9	6680.7	7881.0	9078.3	9206.4	10064.2
27.5°	9373.2	9310.6	8717.9	7580.2	6609.2	6159.4	6918.9	8086.5	9161.7	9292.8	10225.0
30°	11213.9	11288.3	10609.2	9352.3	7928.6	6799.8	7142.3	8163.9	9236.2	9373.2	10430.5
32.5°	12920.5	13009.9	12414.2	11169.2	9483.4	7907.8	7526.5	8464.8	9548.9	9688.9	10773.1
35°	14263.8	14275.7	13826.0	12834.1	11181.1	9254.0	8357.5	8991.9	9971.9	10135.7	11136.4
37.5°	15496.9	15479.0	14951.8	14097.0	12595.9	10591.4	9403.0	9599.5	10454.4	10624.1	11660.6
40°	16411.3	16423.2	16253.4	15449.2	13915.3	11827.4	10231.0	10168.4	11264.5	11529.6	12423.1
42.5°	17021.8	17132.0	17215.4	16807.4	15574.3	13349.4	11502.8	11386.6	12670.3	12890.7	13501.3
45°	17516.3	17712.8	18129.8	18109.0	17167.8	15216.9	13248.1	13009.9	14662.9	14898.2	14874.4
47.5°	17876.7	18076.2	18767.2	19184.2	18666.0	17027.8	15443.3	15237.8	17042.7	17298.8	16390.4
50°	18061.3	18299.6	19181.2	19988.4	19836.5	18773.2	17945.2	17957.1	19916.9	20164.1	18147.7
52.5°	17629.4	17939.2	19401.6	20855.1	21150.0	20444.1	20289.2	20682.4	22475.4	22686.9	19735.2
55°	16250.4	16640.6	19100.8	21593.8	22672.0	22415.8	22951.9	23550.6	25272.2	25409.2	21364.4
57.5°	15377.7	15791.7	18213.2	22222.2	24500.7	24893.9	25742.7	26180.6	28158.3	28506.8	23234.9
60°	14642.1	14966.7	17483.5	22356.3	26359.3	27926.0	28751.0	29203.7	31720.5	31946.9	25293.0
62.5°	13417.9	13790.2	16250.4	21421.0	27294.5	30353.4	32063.0	31860.5	34475.6	34633.4	26555.9
65°	11449.2	11481.9	13748.5	19071.0	26329.5	31929.0	34389.2	33540.3	35792.0	35899.3	26457.6
67.5°	8545.2	8860.9	10576.5	14990.5	22240.1	30582.7	35142.7	33585.0	34961.1	34663.2	24357.8
70°	5504.2	5745.4	7169.1	10394.8	16036.0	25522.3	32643.8	31282.7	30684.0	30022.8	19937.7
72.5°	2540.6	2850.4	4259.2	5939.0	9510.2	18180.5	26499.3	25415.1	22085.2	20453.0	12673.3
75°	1108.0	1185.4	2102.8	3133.3	4458.7	9614.4	17471.6	15776.9	9974.8	9111.1	5072.3
77.5°	676.1	726.7	1102.0	1679.8	1751.3	3663.5	9411.9	6883.2	3082.7	2719.3	1376.0
80°	458.7	515.3	801.2	878.6	598.7	1021.6	3532.4	1837.7	622.5	595.7	294.9
82.5°	223.4	283.0	592.7	491.4	259.1	327.6	1027.6	393.2	181.7	169.8	104.2
85°	32.8	56.6	333.6	321.7	116.2	77.4	181.7	98.3	62.5	59.6	47.7
87.5°	0.0	0.0	113.2	50.6	11.9	11.9	20.8	20.8	23.8	20.8	23.8
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°	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2
2.5°	7776.7	7791.6	7735.0	7654.6	7568.2	7481.9	7359.8	7249.5	7184.0	7222.7	7127.4
5°	7916.7	7904.8	7755.9	7511.7	7187.0	6796.8	6409.6	6079.0	5971.8	5811.0	5793.1
7.5°	8110.3	8077.6	7761.8	7201.9	6469.2	5736.5	5021.7	4548.1	4277.1	4047.7	4053.7
10°	8381.4	8286.0	7693.3	6656.8	5450.6	4345.6	3434.2	2808.7	2537.6	2451.3	2382.8
12.5°	8661.3	8476.7	7502.7	5921.2	4244.3	2969.5	2087.9	1706.7	1539.9	1486.2	1480.3
15°	8911.5	8619.6	7169.1	5036.6	3085.7	1897.3	1423.7	1298.6	1277.8	1280.7	1277.8
17.5°	9158.7	8732.8	6707.5	4098.3	2096.8	1361.2	1224.1	1194.4	1203.3	1215.2	1212.2
20°	9364.2	8756.6	6117.7	3127.4	1483.3	1194.4	1149.7	1143.7	1152.7	1161.6	1161.6
22.5°	9587.6	8774.5	5417.8	2165.3	1212.2	1111.0	1087.1	1087.1	1099.0	1111.0	1113.9
25°	9754.4	8676.2	4580.9	1554.8	1069.3	1030.5	1018.6	1021.6	1033.5	1039.5	1036.5
27.5°	9781.2	8399.2	3693.3	1191.4	971.0	932.3	920.3	932.3	917.4	926.3	920.3
30°	9805.1	8047.8	2793.8	1003.7	881.6	822.1	804.2	786.3	774.4	759.5	756.5
32.5°	9879.5	7633.8	2040.2	902.5	798.2	732.7	691.0	640.4	601.6	589.7	586.8
35°	9912.3	7136.4	1498.2	822.1	723.8	652.3	577.8	506.3	449.7	428.9	443.8
37.5°	10037.4	6653.9	1161.6	762.5	658.2	568.9	473.6	384.2	330.6	318.7	324.7
40°	10293.5	6129.7	974.0	711.8	601.6	491.4	375.3	288.9	253.2	241.3	238.3
42.5°	10704.6	5608.4	866.7	664.2	545.1	414.0	294.9	226.4	196.6	187.6	187.6
45°	11204.9	5108.0	792.3	613.6	485.5	333.6	232.3	181.7	163.8	157.9	157.9
47.5°	11863.2	4670.2	729.7	562.9	420.0	265.1	187.6	157.9	145.9	148.9	151.9
50°	12530.3	4345.6	661.2	506.3	345.5	217.4	160.8	140.0	137.0	140.0	140.0
52.5°	13033.7	4154.9	568.9	428.9	271.0	181.7	143.0	131.1	128.1	122.1	122.1
55°	13712.8	4113.2	452.7	348.5	214.4	151.9	128.1	119.1	110.2	104.2	101.3
57.5°	14585.5	4160.9	348.5	271.0	166.8	125.1	113.2	98.3	86.4	74.5	74.5
60°	15127.6	4053.7	271.0	208.5	122.1	101.3	86.4	71.5	56.6	47.7	44.7
62.5°	14954.8	3600.9	214.4	154.9	86.4	74.5	56.6	47.7	32.8	23.8	20.8
65°	14064.2	2907.0	172.8	107.2	62.5	44.7	29.8	29.8	14.9	3.0	0.0
67.5°	12309.9	2153.4	137.0	71.5	35.7	20.8	14.9	8.9	0.0	0.0	0.0
70°	10019.5	1554.8	107.2	44.7	20.8	14.9	6.0	3.0	0.0	0.0	0.0
72.5°	6362.0	890.6	83.4	26.8	14.9	6.0	0.0	0.0	0.0	0.0	0.0
75°	2460.2	348.5	56.6	17.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	697.0	163.8	32.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	181.7	71.5	17.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	86.4	29.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.6	11.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.8	3.0	0.0	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)