

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: P532157

Luminaire Tested: **GALN-SA7C-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26030 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

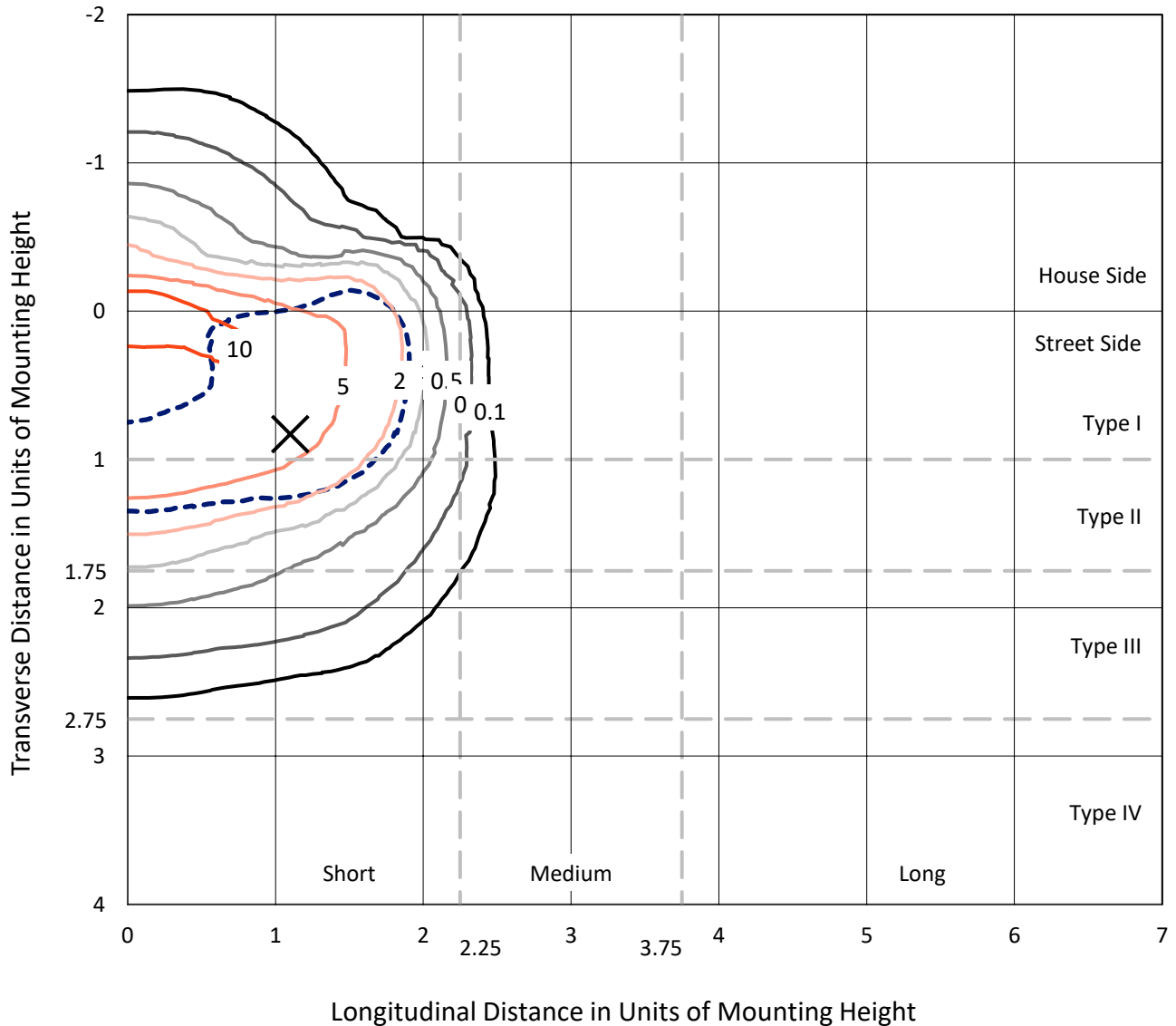
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

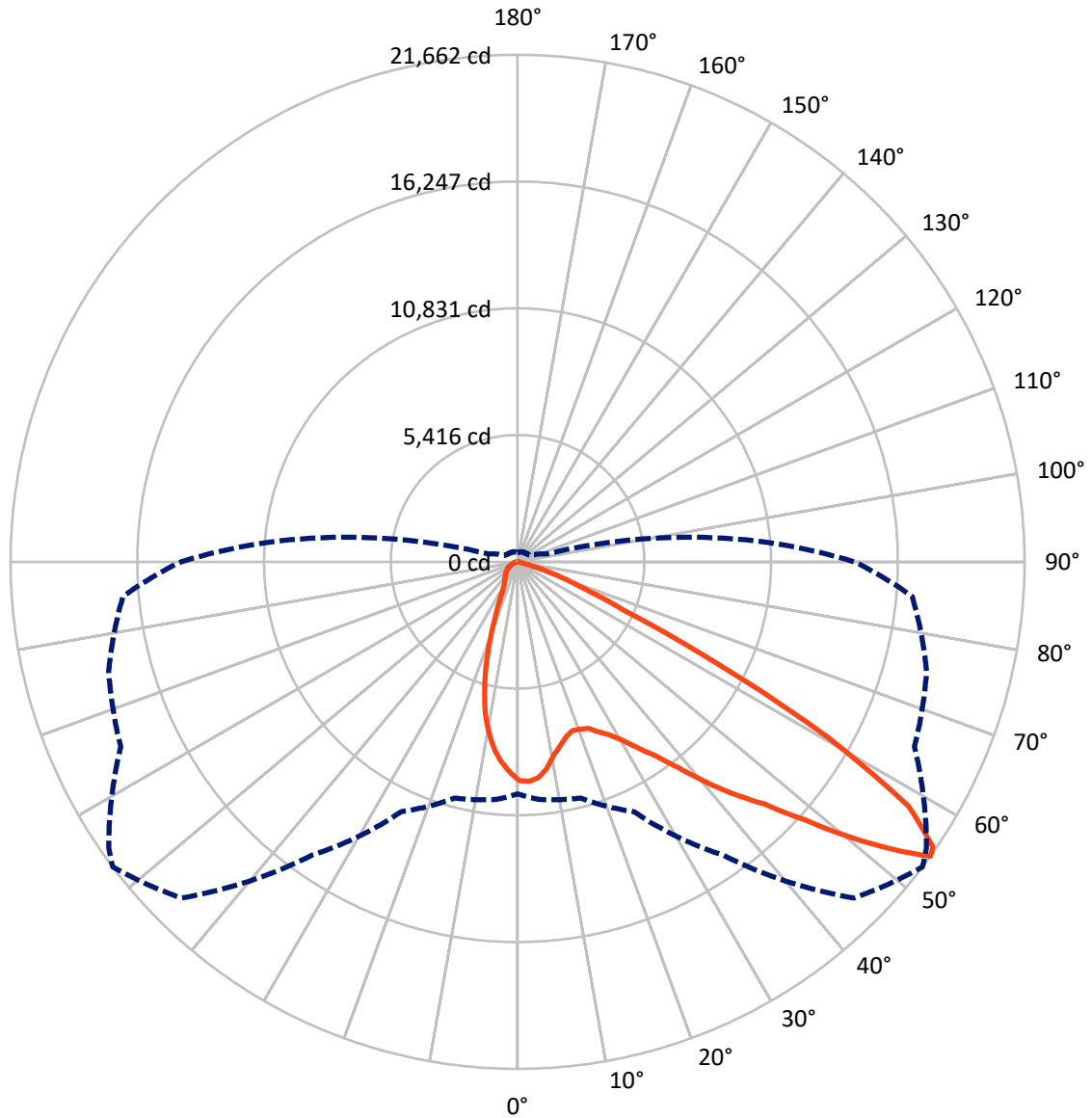
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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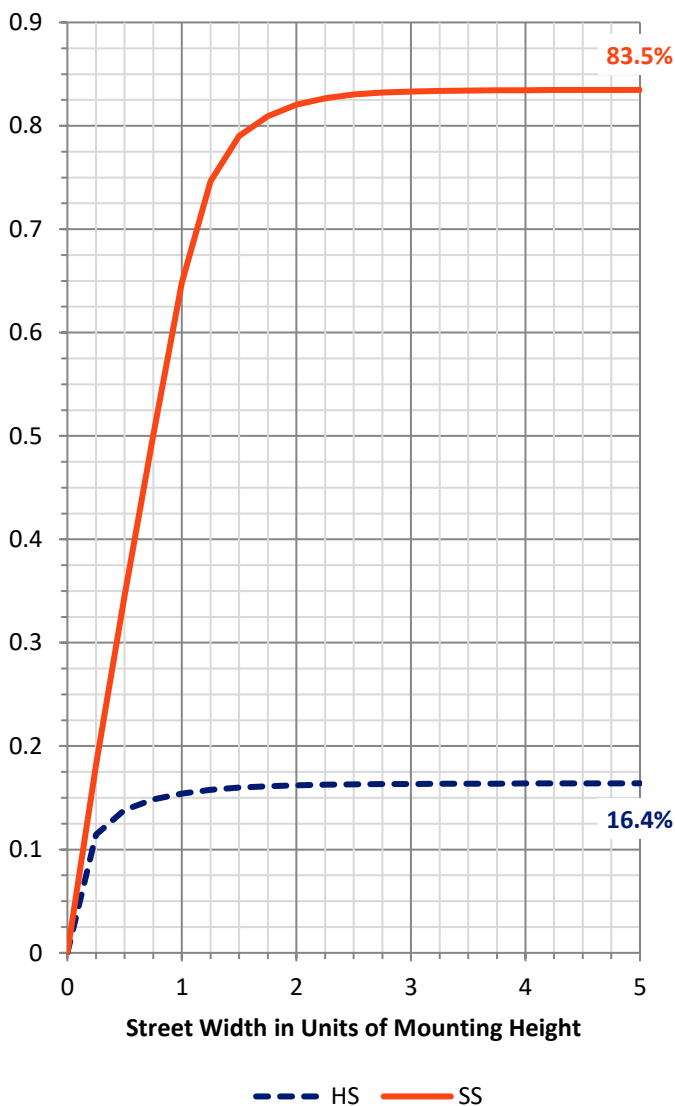
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4306.7	0.0	4306.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	21723.3	0.0	21723.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	26030.0	0.0	26030.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.2	3.1
10°-20°	1839.1	7.1
20°-30°	2613.8	10.0
30°-40°	4033.8	15.5
40°-50°	6324.5	24.3
50°-60°	7346.8	28.2
60°-70°	2776.1	10.7
70°-80°	264.0	1.0
80°-90°	29.7	0.1
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°	26030.0	100.0
0°-180°	26030.0	100.0

**Coefficient of Utilization**

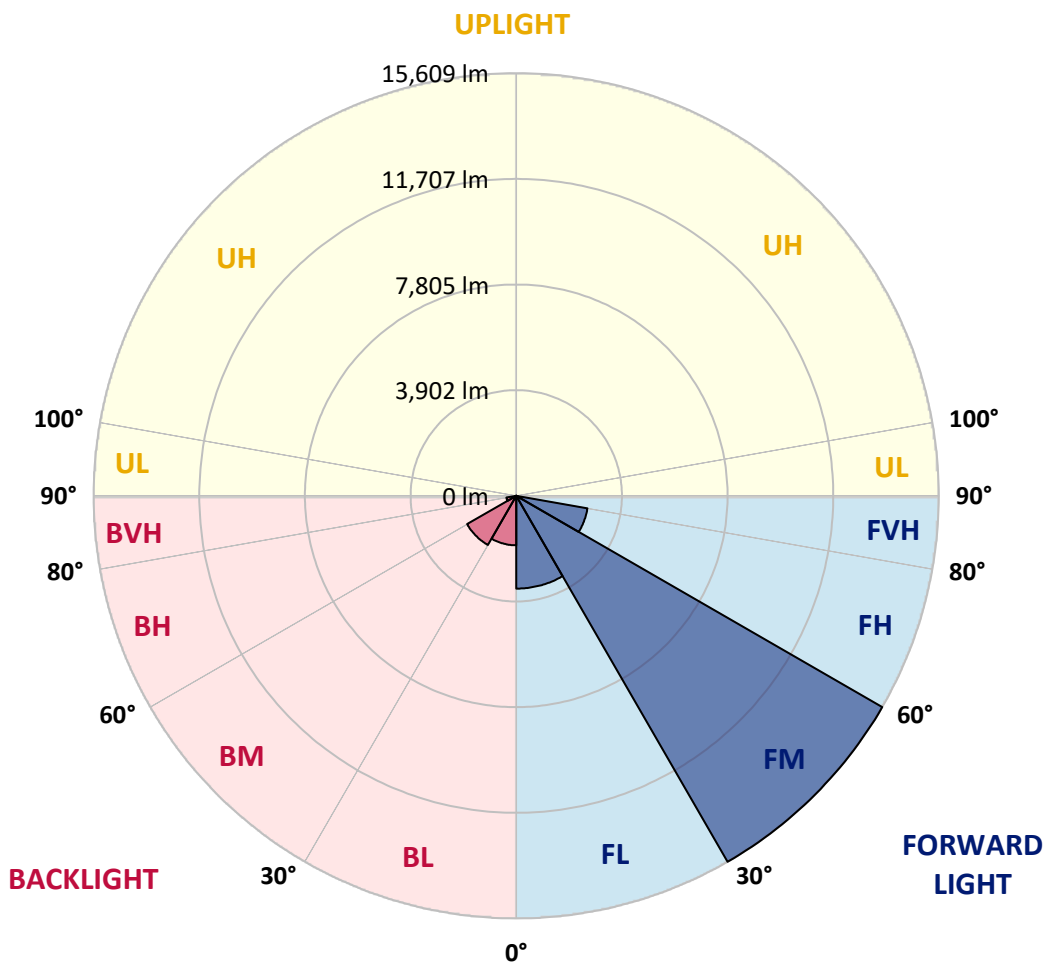


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3427.5	13.2			
FM (30°-60°)	15609.4	60.0			
FH (60°-80°)	2671.1	10.3			G2/5000
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1827.6	7.0	B3/2500		
BM (30°-60°)	2095.8	8.1	B2/2500		
BH (60°-80°)	369.0	1.4	B1/500		G1/500
BVH (80°-90°)	14.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5
2.5°	9301.0	9218.6	9301.0	9310.7	9368.9	9422.3	9388.3	9465.9	9422.3	9373.8	9359.2
5°	8549.4	8660.9	8665.8	8840.4	8801.6	9121.6	9262.2	9223.5	9461.1	9446.5	9412.6
7.5°	7875.3	7831.7	7889.9	8093.6	8350.6	8719.1	8922.8	8917.9	9257.4	9499.9	9475.6
10°	7249.8	7244.9	7366.2	7526.2	7744.4	8132.4	8413.6	8554.2	9082.8	9451.4	9504.7
12.5°	6827.9	6808.5	6939.4	7070.3	7414.6	7715.3	8074.2	8142.1	8748.2	9281.6	9368.9
15°	6551.5	6595.1	6604.8	6857.0	7075.2	7472.8	7754.1	7894.7	8593.0	9145.9	9480.5
17.5°	6503.0	6561.2	6566.0	6774.5	7007.3	7341.9	7589.2	7778.3	8462.1	9213.8	9485.3
20°	6600.0	6566.0	6595.1	6726.0	6954.0	7274.0	7632.9	7695.9	8418.5	9247.7	9538.7
22.5°	6876.4	6866.7	6793.9	6900.6	7060.6	7395.3	7734.7	7831.7	8544.5	9422.3	9582.3
25°	7181.9	7235.2	7167.3	7152.8	7264.3	7594.1	8045.1	8171.1	8966.4	9737.5	9718.1
27.5°	7754.1	7700.8	7700.8	7632.9	7603.8	7763.8	8379.7	8588.2	9436.8	10144.8	9873.3
30°	8302.1	8360.3	8316.6	8340.9	8146.9	8132.4	8854.9	9111.9	10270.9	10765.5	10203.0
32.5°	9170.1	9092.5	9165.3	9102.2	8845.2	8583.3	9499.9	9766.6	11279.6	11478.4	10697.7
35°	9892.7	9858.7	10169.1	10159.4	9742.3	9485.3	10183.6	10581.3	11982.7	12331.9	11279.6
37.5°	10920.7	10857.7	11211.7	11381.4	11008.0	10624.9	11163.2	11623.9	12637.4	13015.6	11876.0
40°	11977.9	12137.9	12613.1	12894.4	12496.8	11987.6	12361.0	12501.6	13073.8	13461.8	12283.4
42.5°	13316.3	13549.1	14034.0	14276.5	14242.5	13689.7	13578.2	13573.3	13389.0	13335.7	12584.1
45°	14601.4	14514.1	15260.9	15789.5	16216.2	16056.2	14751.7	14606.2	13888.5	13524.8	12661.6
47.5°	15163.9	15134.8	15644.0	16584.8	18039.6	18238.4	16458.7	15896.2	14732.3	14320.1	13083.5
50°	14436.5	14586.8	15091.2	16133.8	18364.5	19882.3	18553.6	17797.1	15716.7	15290.0	14082.5
52.5°	12060.3	12162.2	12642.2	13966.1	17258.8	20852.2	20561.2	20124.8	17525.5	16817.5	15823.4
54°	9916.9	10188.5	10450.3	11779.1	15290.0	20313.9	21662.0	21327.4	18703.9	18088.1	16919.4
55°	8636.7	8796.7	8985.8	10309.7	13927.3	19402.2	21535.9	21565.0	19494.4	18485.7	17656.5
57.5°	6309.0	6420.5	6226.6	6813.3	9562.9	15755.5	19698.0	20483.6	20561.2	19082.2	18107.5
60°	4820.2	4868.7	4650.5	4742.7	5945.3	10814.0	15236.6	16182.3	18548.7	16676.9	15338.5
62.5°	3738.8	3748.5	3743.7	3903.7	4097.7	6362.3	9529.0	10367.9	12787.7	11842.1	10416.4
65°	2754.4	2710.8	2788.4	3273.3	3496.4	4000.7	5019.1	5630.1	6949.1	5867.7	4194.7
67.5°	1784.6	1799.1	1876.7	2434.4	2996.9	3069.6	3089.0	3040.5	3045.4	1677.9	1052.3
70°	1071.7	1096.0	1071.7	1377.2	2143.4	2201.6	2012.5	1964.0	1532.4	397.6	392.8
72.5°	635.3	601.3	538.3	591.6	892.3	1066.9	960.2	955.3	601.3	232.8	232.8
75°	266.7	242.5	198.8	179.4	237.6	227.9	227.9	203.7	160.0	155.2	145.5
77.5°	53.3	53.3	38.8	43.6	58.2	67.9	82.4	82.4	97.0	97.0	92.1
80°	0.0	4.8	14.5	29.1	43.6	63.0	72.7	72.7	82.4	82.4	67.9
82.5°	0.0	4.8	14.5	29.1	38.8	58.2	72.7	72.7	82.4	87.3	72.7
85°	0.0	4.8	14.5	24.2	38.8	48.5	48.5	43.6	33.9	29.1	19.4
87.5°	0.0	0.0	4.8	9.7	4.8	9.7	9.7	9.7	9.7	9.7	9.7
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°	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5
2.5°	9393.2	9388.3	9271.9	9082.8	9039.2	8879.2	8859.8	8762.8	8816.1	8636.7	8617.3
5°	9315.6	9257.4	9116.8	8995.5	8641.5	8389.4	8190.5	7948.1	7807.4	7831.7	7739.6
7.5°	9427.1	9276.8	9029.5	8607.6	8176.0	7734.7	7497.1	7002.5	6823.0	6556.3	6517.5
10°	9310.7	9199.2	8816.1	8117.8	7521.3	6886.1	6328.4	5780.4	5363.4	5183.9	5145.2
12.5°	9301.0	9107.1	8467.0	7691.1	6827.9	5916.2	5106.4	4422.6	4010.4	3777.6	3724.3
15°	9150.7	8917.9	8074.2	7031.6	5838.6	4703.9	3821.3	3161.8	2846.6	2710.8	2749.6
17.5°	9165.3	8816.1	7681.4	6333.2	4863.9	3452.7	2608.9	2269.5	2187.1	2221.0	2221.0
20°	9150.7	8588.2	7206.1	5528.3	3724.3	2395.6	1915.5	1794.3	1847.6	1954.3	1930.0
22.5°	9073.1	8481.5	6769.7	4679.6	2739.9	1774.9	1537.2	1542.1	1624.5	1755.5	1784.6
25°	9131.3	8243.9	6216.9	3821.3	1997.9	1416.0	1333.6	1367.5	1454.8	1551.8	1571.2
27.5°	9087.7	8074.2	5639.8	2967.8	1459.7	1217.2	1212.3	1251.1	1289.9	1362.7	1362.7
30°	9136.2	7919.0	5072.4	2206.5	1202.6	1115.3	1096.0	1125.0	1163.8	1178.4	1173.5
32.5°	9315.6	7802.6	4417.8	1648.8	1062.0	1018.4	1018.4	1018.4	1013.5	1032.9	1037.8
35°	9708.4	7822.0	3840.7	1275.4	969.9	935.9	921.4	902.0	892.3	902.0	906.8
37.5°	10135.1	7812.3	3244.2	1086.3	902.0	872.9	838.9	809.8	805.0	814.7	800.1
40°	10324.3	7904.4	2691.4	974.7	838.9	805.0	751.6	727.4	732.3	741.9	732.3
42.5°	10581.3	7933.5	2332.5	887.4	780.7	727.4	693.5	664.4	659.5	674.1	669.2
45°	10576.4	7768.7	1954.3	838.9	727.4	669.2	625.6	601.3	601.3	611.0	615.9
47.5°	10886.8	7744.4	1677.9	795.3	688.6	630.4	577.1	557.7	552.8	552.8	543.1
50°	11609.3	8083.9	1464.5	746.8	640.1	586.8	543.1	518.9	499.5	489.8	484.9
52.5°	13020.5	9141.0	1299.6	688.6	586.8	543.1	504.3	484.9	460.7	436.4	431.6
54°	14388.0	10232.1	1289.9	640.1	543.1	514.0	480.1	470.4	441.3	407.3	397.6
55°	15003.9	10867.4	1323.9	601.3	514.0	494.6	465.5	455.8	426.7	387.9	383.1
57.5°	15513.1	11114.7	1304.5	499.5	465.5	460.7	436.4	421.9	387.9	334.6	324.9
60°	12487.1	8403.9	935.9	441.3	426.7	417.0	397.6	387.9	344.3	286.1	281.3
62.5°	7889.9	4834.8	596.5	387.9	373.4	358.9	334.6	324.9	286.1	227.9	213.4
65°	3360.6	2002.8	402.5	344.3	320.1	295.8	276.4	261.9	227.9	169.7	164.9
67.5°	872.9	712.9	334.6	300.7	266.7	232.8	218.2	194.0	155.2	116.4	111.5
70°	392.8	358.9	281.3	252.2	213.4	179.4	160.0	135.8	101.8	77.6	72.7
72.5°	232.8	227.9	213.4	189.1	160.0	135.8	116.4	92.1	67.9	43.6	43.6
75°	145.5	140.6	145.5	130.9	111.5	101.8	87.3	63.0	38.8	19.4	19.4
77.5°	87.3	87.3	87.3	82.4	77.6	77.6	63.0	38.8	19.4	4.8	4.8
80°	67.9	67.9	72.7	67.9	67.9	67.9	53.3	29.1	9.7	0.0	0.0
82.5°	67.9	72.7	82.4	77.6	67.9	58.2	48.5	29.1	9.7	0.0	0.0
85°	19.4	14.5	24.2	33.9	48.5	43.6	33.9	24.2	9.7	0.0	0.0
87.5°	9.7	9.7	9.7	9.7	4.8	4.8	4.8	4.8	4.8	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)