

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: P648034

Luminaire Tested: **GALN-SA7A-835-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20433.9 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

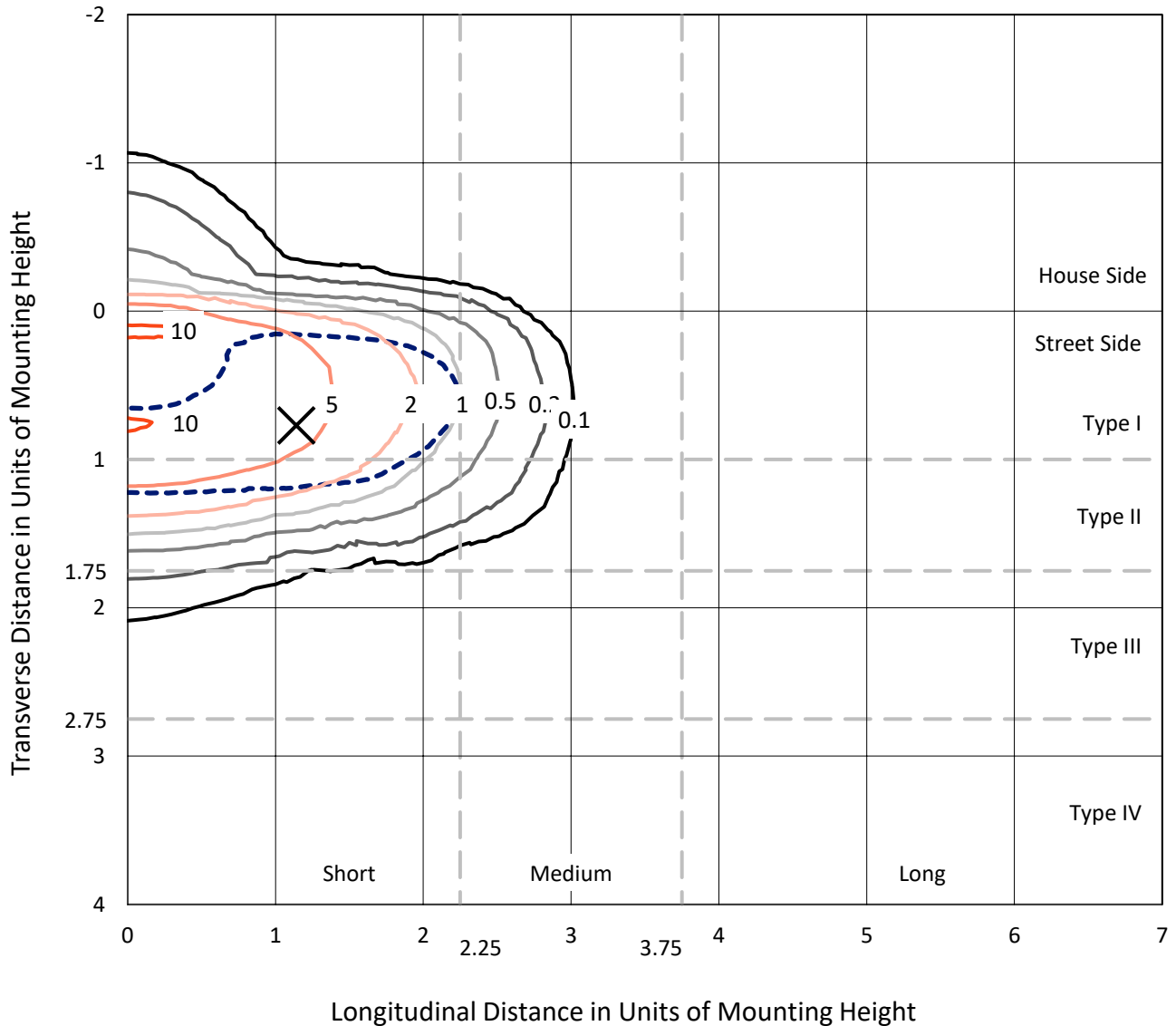
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

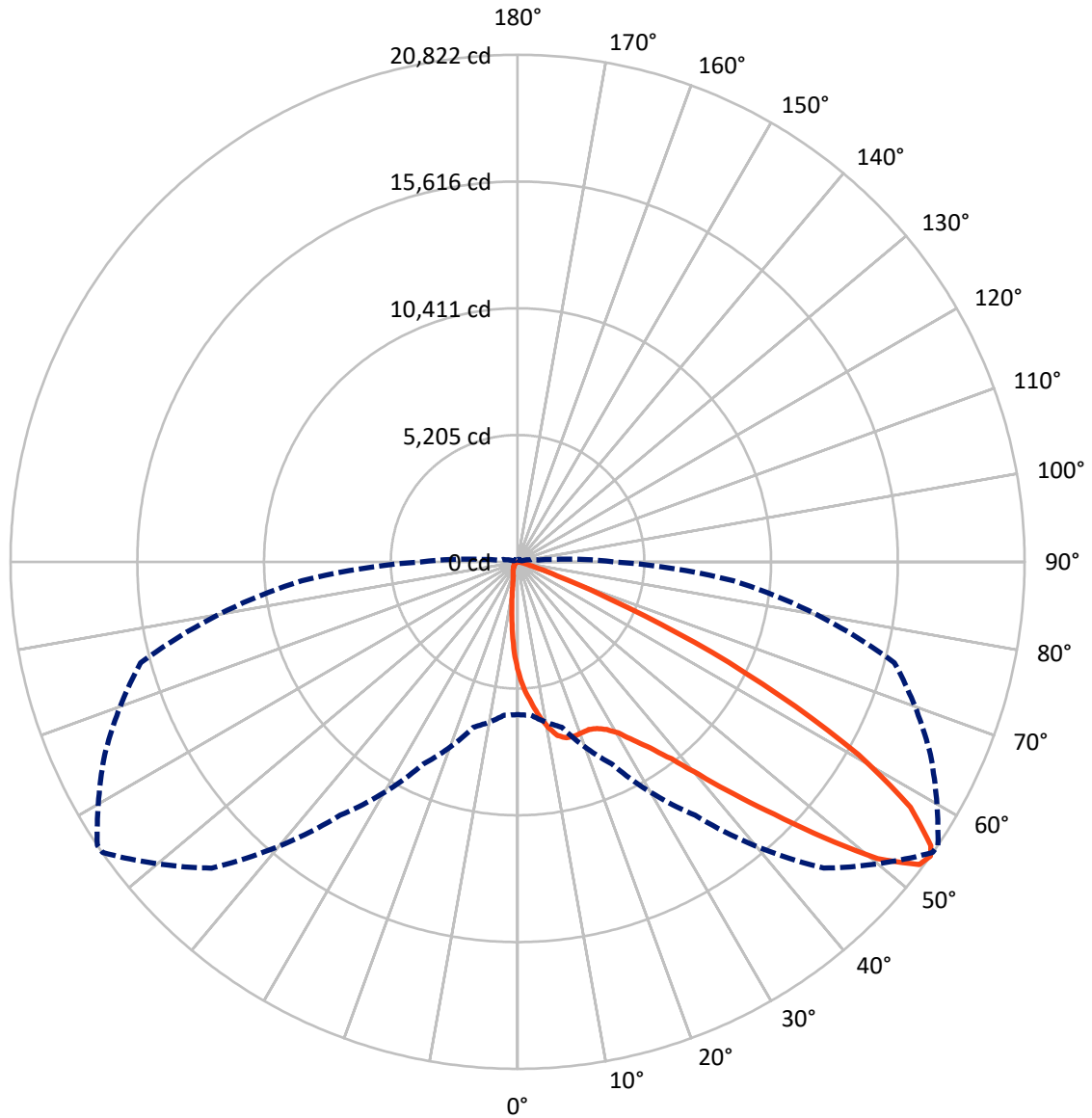
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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 CATALOG NUMBER: GALN-SA7A-835-U-AFL-HSS

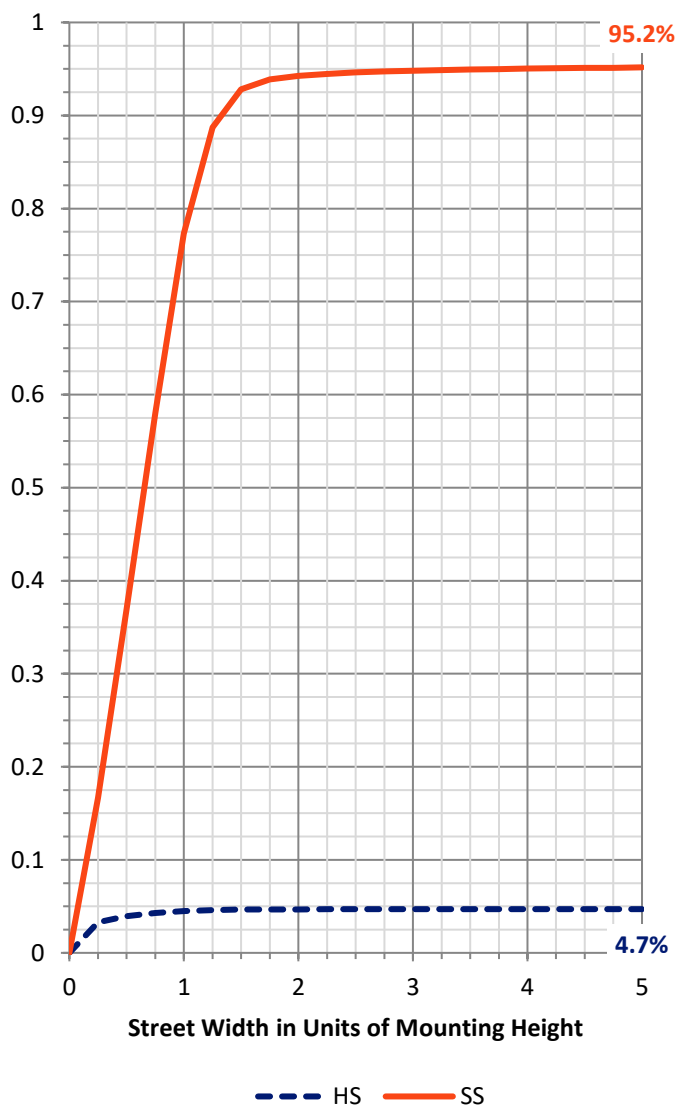
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	966.3	0.0	966.3
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	19467.7	0.0	19467.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	20433.9	0.0	20433.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.2	2.0
10°-20°	1084.5	5.3
20°-30°	1878.2	9.2
30°-40°	3242.1	15.9
40°-50°	5518.2	27.0
50°-60°	5461.0	26.7
60°-70°	2492.5	12.2
70°-80°	320.1	1.6
80°-90°	36.1	0.2
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°	20433.9	100.0
0°-180°	20433.9	100.0

**Coefficient of Utilization**

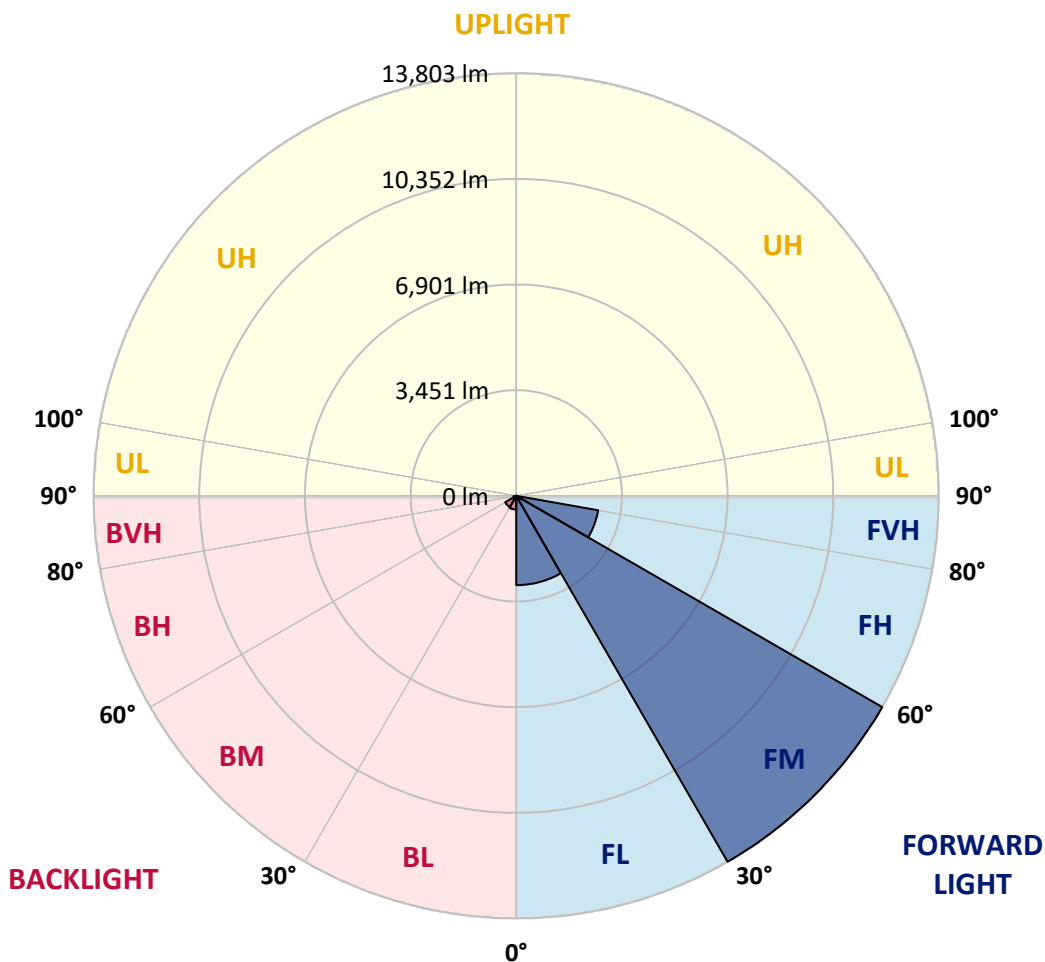


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2917.0	14.3			
FM (30°-60°)	13802.6	67.5			
FH (60°-80°)	2715.8	13.3			G2/5000
FVH (80°-90°)	32.2	0.2			G1/100
BL (0°-30°)	446.9	2.2	B1/500		
BM (30°-60°)	418.8	2.0	B1/1000		
BH (60°-80°)	96.8	0.5	B0/110		G0/110
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8
2.5°	5769.6	5729.6	5674.5	5631.7	5531.1	5386.3	5233.3	5233.3	5085.7	4880.4	4670.8
5°	6654.6	6628.5	6574.7	6464.4	6351.4	6148.7	5841.3	5787.5	5524.1	5152.0	4760.4
7.5°	7014.5	7026.9	7029.6	7000.7	6946.9	6747.0	6442.4	6405.1	5984.6	5485.5	4877.6
10°	6669.8	6730.5	6789.8	6909.7	7079.3	7127.5	6955.2	6916.6	6503.0	5823.3	5004.5
12.5°	6157.0	6190.1	6223.1	6412.0	6752.5	7142.7	7323.3	7321.9	6971.8	6159.7	5165.8
15°	5918.5	5947.4	5950.2	6034.3	6329.3	6897.3	7480.5	7501.1	7429.4	6574.7	5339.4
17.5°	5968.1	5991.5	5972.3	5992.9	6147.3	6627.1	7462.5	7531.4	7800.3	6973.1	5496.6
20°	6292.1	6337.6	6263.1	6205.2	6252.1	6555.4	7401.9	7498.4	8062.2	7361.9	5639.9
22.5°	6873.9	6898.7	6804.9	6646.4	6563.7	6705.7	7385.3	7480.5	8285.5	7680.4	5722.7
25°	7520.4	7512.2	7408.7	7230.9	7057.3	7008.9	7494.2	7579.8	8470.3	7967.1	5747.5
27.5°	8167.0	8191.8	8018.2	7797.6	7589.4	7463.9	7738.2	7801.7	8678.5	8293.8	5777.8
30°	8918.4	8878.4	8707.4	8455.1	8216.6	8041.6	8131.1	8149.1	8965.3	8726.8	5857.8
32.5°	9895.8	9785.5	9593.9	9152.7	8981.8	8685.3	8707.4	8729.5	9314.0	9155.5	5954.3
35°	11222.0	11216.6	10841.6	10247.4	9831.0	9462.9	9366.4	9384.3	9842.1	9792.4	6168.0
37.5°	12818.5	12840.6	12413.2	11814.8	11048.4	10463.9	10265.3	10268.0	10644.4	10672.0	6493.3
40°	14118.6	14176.4	13921.4	13517.5	12760.6	11846.6	11513.0	11482.6	11772.2	11737.6	6958.0
42.5°	14678.3	14732.1	14827.2	14967.8	14551.4	13797.3	13010.2	13051.5	13139.8	12898.5	7479.1
45°	14404.0	14489.4	14863.1	15731.6	16123.1	15869.5	14930.6	14785.9	14412.2	14159.9	8003.0
47.5°	13261.0	13469.2	14093.8	15540.0	16910.3	17767.8	17097.8	16906.1	15686.1	15080.9	8336.6
50°	11382.0	11394.4	12264.3	14113.0	16502.2	18965.8	19310.5	19167.1	16873.1	15597.8	8504.8
52.5°	8251.1	8522.7	9319.6	11460.5	14734.8	18783.9	20720.8	20661.6	18097.3	15862.6	8747.4
54°	6272.8	6325.2	7033.8	9158.3	12704.1	17784.4	20807.7	20821.5	18705.3	16022.5	8890.8
55°	5142.3	5016.8	5761.3	7801.7	11318.6	16900.7	20523.7	20589.8	18978.3	16105.2	8997.0
57.5°	2437.4	2438.8	3008.2	4115.2	7088.9	13123.2	18788.0	19022.4	19008.6	16247.2	9323.7
60°	1233.9	1242.2	1367.6	1899.8	3501.7	8724.0	15534.4	16092.8	17545.9	16267.8	9431.2
62.5°	863.0	853.4	832.7	914.0	1473.8	4433.7	11565.4	12050.6	14907.1	15480.7	9089.3
65°	738.9	718.2	660.4	647.9	744.5	1766.1	7203.4	7994.7	11382.0	13404.4	8116.0
67.5°	631.4	623.1	570.7	539.0	526.6	769.3	3716.8	4133.1	7779.7	9635.3	6147.3
70°	536.3	532.1	500.4	460.5	426.0	460.5	1378.6	1708.1	4335.8	5187.8	2900.6
72.5°	435.7	439.8	445.3	394.3	358.5	326.7	588.7	685.2	1814.3	1854.2	1014.7
75°	381.9	377.7	377.7	343.3	299.2	242.7	324.0	348.8	555.6	515.6	235.8
77.5°	268.8	259.2	303.3	282.6	249.5	172.3	184.7	195.8	230.2	197.2	110.3
80°	186.1	186.1	194.4	253.7	224.7	125.4	113.1	121.3	136.5	117.2	63.4
82.5°	104.8	107.5	126.8	135.1	131.0	84.1	74.5	75.8	91.0	79.9	40.0
85°	12.4	20.7	73.1	71.7	53.8	37.2	41.3	42.8	56.5	49.6	23.4
87.5°	1.4	2.7	15.2	19.3	13.8	15.2	15.2	15.2	19.3	22.1	16.5
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°	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8	4539.8
2.5°	4557.8	4453.0	4203.5	3913.9	3729.2	3428.7	3175.0	2991.6	2946.1	2857.9	2884.1
5°	4552.2	4334.5	3825.7	3288.1	2714.5	2287.1	1968.7	1717.7	1607.5	1534.4	1483.4
7.5°	4555.0	4214.5	3398.3	2542.2	1857.0	1437.9	1142.9	989.9	887.8	845.1	850.7
10°	4563.2	4079.4	2902.0	1883.2	1253.2	929.2	748.6	675.5	641.0	635.6	634.2
12.5°	4582.6	3931.8	2427.8	1398.0	876.8	675.5	606.6	581.8	570.7	570.7	566.6
15°	4603.3	3769.2	2033.5	1039.5	675.5	580.4	548.7	536.3	529.4	529.4	528.1
17.5°	4603.3	3581.7	1665.4	806.5	581.8	533.5	508.7	492.2	486.6	486.6	485.3
20°	4574.3	3363.8	1338.6	649.3	528.1	489.5	464.6	446.7	439.8	437.0	435.7
22.5°	4473.7	3073.0	1065.7	558.4	483.9	450.9	419.1	398.4	392.9	390.2	391.5
25°	4294.4	2744.9	843.8	490.8	443.9	403.9	376.4	361.2	355.7	355.7	357.0
27.5°	4109.7	2401.5	668.6	439.8	395.6	359.8	337.8	328.1	326.7	330.9	332.2
30°	3938.7	2056.9	541.8	398.4	352.9	322.6	307.4	304.7	304.7	306.1	307.4
32.5°	3748.5	1755.0	453.6	362.6	318.4	292.3	284.0	284.0	286.7	286.7	289.5
35°	3628.6	1495.8	398.4	328.1	292.3	270.2	264.7	266.1	270.2	275.7	278.5
37.5°	3563.7	1289.1	362.6	300.5	267.5	252.3	246.8	249.5	259.2	268.8	270.2
40°	3569.3	1133.2	333.6	277.1	248.1	231.6	227.5	235.8	245.4	255.0	256.4
42.5°	3629.9	1017.4	306.1	249.5	231.6	208.2	206.8	215.1	219.2	228.9	230.2
45°	3701.6	933.3	277.1	220.6	201.3	180.6	182.0	188.9	194.4	209.5	212.3
47.5°	3723.7	875.4	244.0	187.5	165.4	158.6	159.9	164.0	175.1	188.9	190.3
50°	3748.5	839.6	212.3	158.6	140.6	139.2	140.6	143.4	150.3	155.8	154.4
52.5°	3854.6	838.2	186.1	137.9	120.0	122.7	124.1	122.7	117.2	108.9	106.2
54°	3953.9	842.4	173.7	128.2	110.3	114.4	113.1	106.2	92.4	84.1	79.9
55°	4033.9	846.5	166.8	121.3	104.8	106.2	107.5	93.7	75.8	67.6	64.8
57.5°	4191.0	836.8	150.3	106.2	92.4	86.8	85.5	62.0	41.3	35.9	33.1
60°	4112.5	755.5	136.5	91.0	78.6	70.3	57.9	34.5	20.7	15.2	15.2
62.5°	3803.7	641.0	121.3	74.5	64.8	53.8	30.3	19.3	9.6	5.5	4.1
65°	3402.4	539.0	108.9	59.3	51.0	34.5	16.5	12.4	4.1	0.0	0.0
67.5°	2529.8	399.8	92.4	46.9	38.6	22.1	11.0	6.9	1.4	0.0	0.0
70°	1171.8	244.0	78.6	35.9	27.6	16.5	8.3	4.1	0.0	0.0	0.0
72.5°	336.4	153.0	64.8	26.2	19.3	13.8	6.9	2.7	1.4	0.0	0.0
75°	117.2	122.7	48.2	19.3	15.2	9.6	5.5	2.7	1.4	0.0	0.0
77.5°	70.3	99.3	30.3	16.5	12.4	8.3	5.5	2.7	1.4	1.4	0.0
80°	40.0	66.2	19.3	13.8	11.0	6.9	4.1	2.7	1.4	1.4	0.0
82.5°	22.1	31.7	15.2	12.4	9.6	6.9	4.1	2.7	1.4	1.4	1.4
85°	17.9	16.5	12.4	11.0	8.3	5.5	4.1	1.4	0.0	0.0	0.0
87.5°	13.8	11.0	11.0	11.0	8.3	5.5	4.1	1.4	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)