

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: P647568

Luminaire Tested: **GALN-SA7D-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33777.8 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

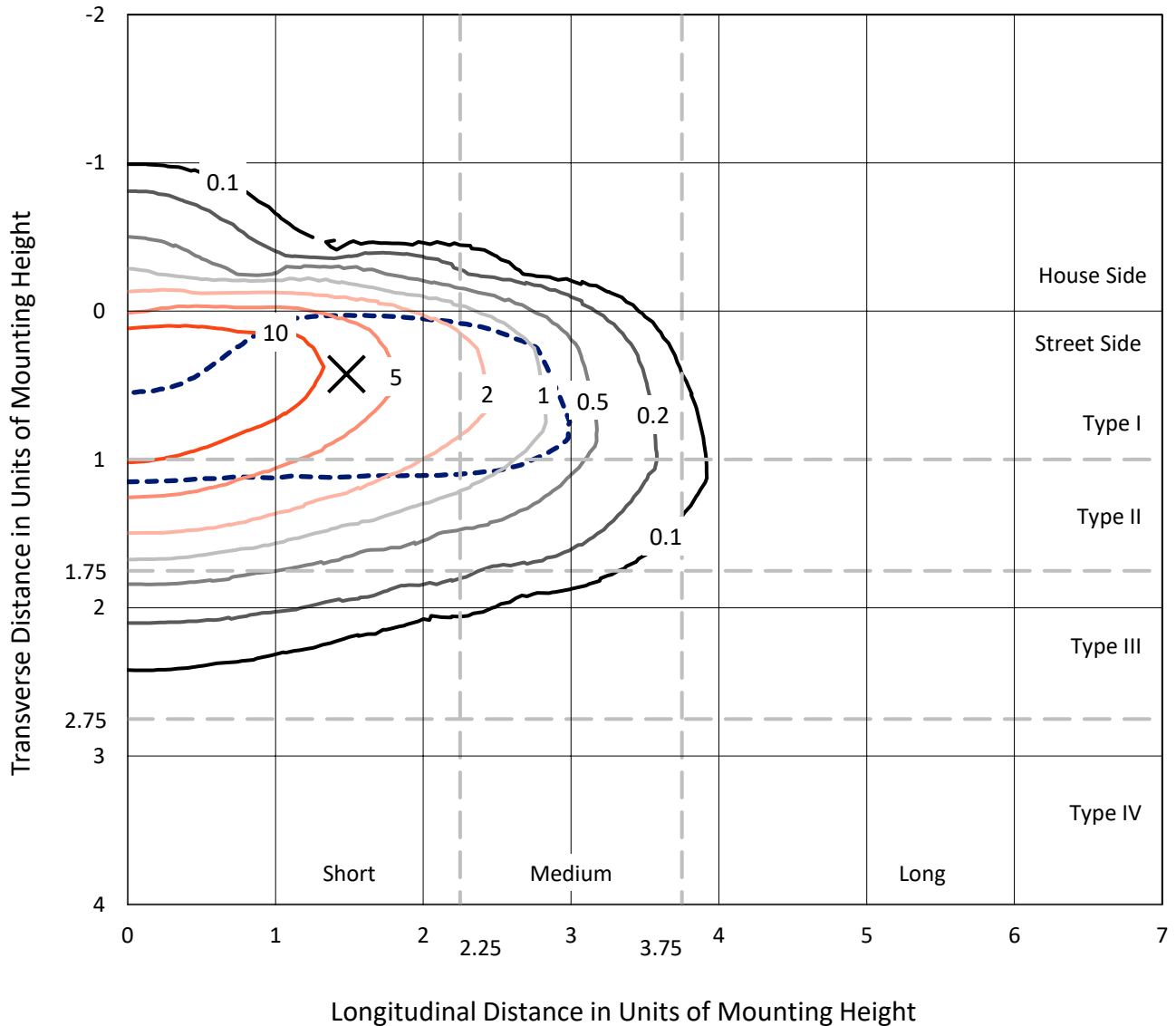
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

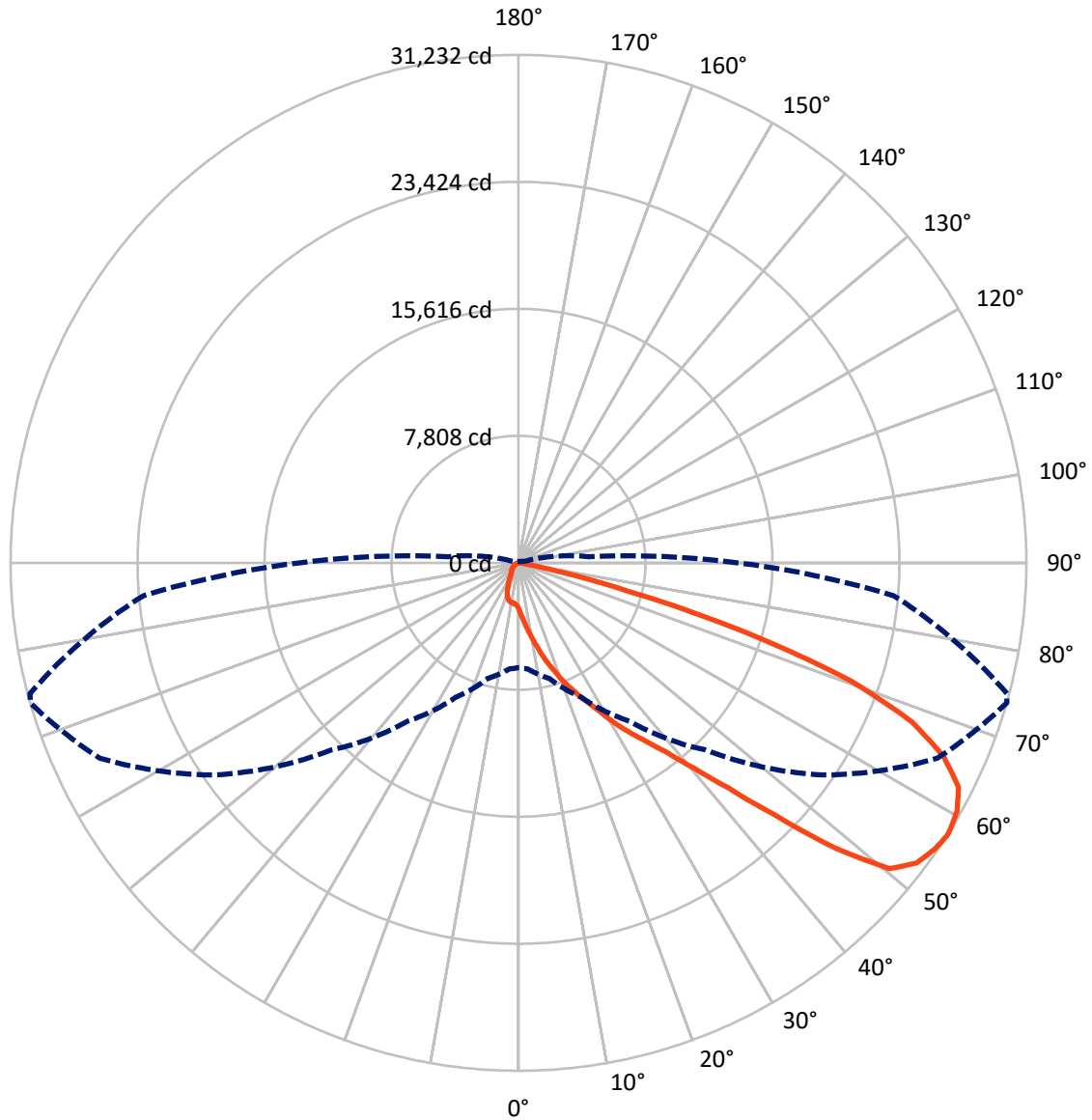
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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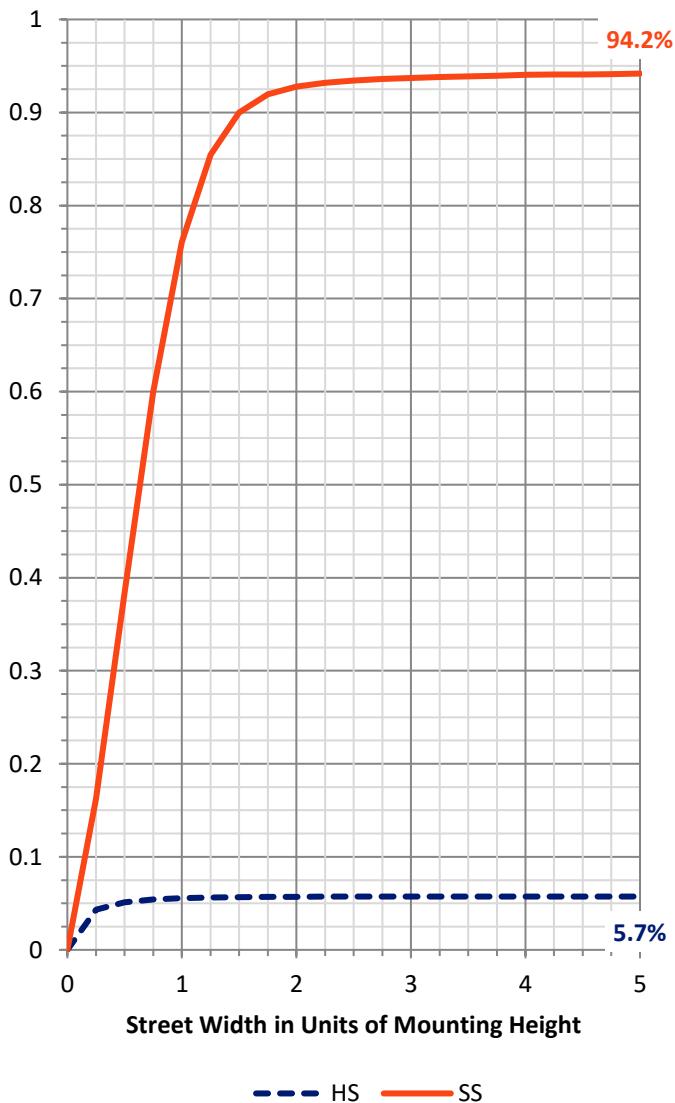
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1948.2	0.0	1948.2
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	31829.6	0.0	31829.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	33777.8	0.0	33777.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.4	1.0
10°-20°	1345.9	4.0
20°-30°	2879.8	8.5
30°-40°	5293.0	15.7
40°-50°	8114.3	24.0
50°-60°	8583.8	25.4
60°-70°	5605.5	16.6
70°-80°	1531.6	4.5
80°-90°	82.5	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°	33777.8	100.0
0°-180°	33777.8	100.0



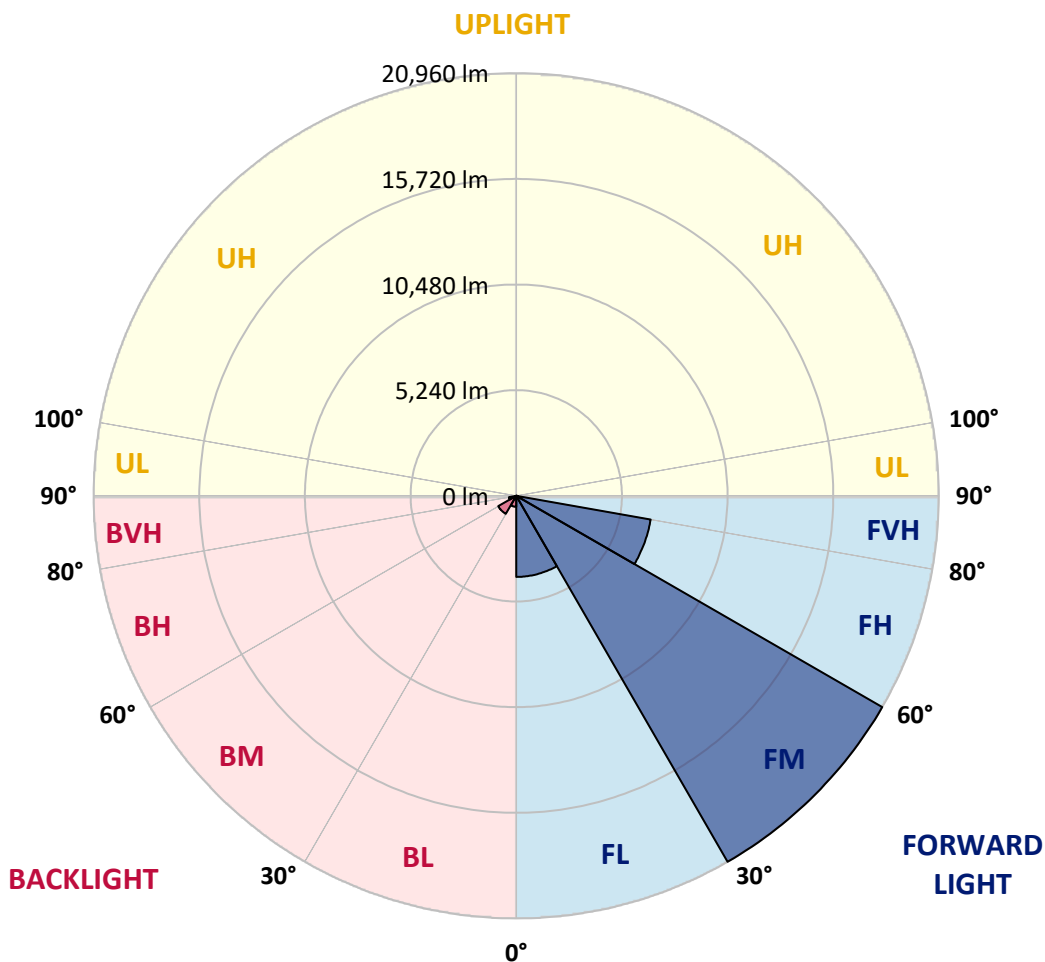
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4022.9	11.9			
FM (30°-60°)	20959.8	62.1			
FH (60°-80°)	6771.3	20.0			G3/7500
FVH (80°-90°)	75.6	0.2			G1/100
BL (0°-30°)	544.2	1.6	B2/1000		
BM (30°-60°)	1031.4	3.1	B2/2500		
BH (60°-80°)	365.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.8	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8
2.5°	4139.5	4102.2	4027.5	4001.9	3892.3	3722.1	3572.8	3372.2	3213.7	3197.3	3006.1
5°	5543.4	5459.5	5424.5	5256.6	4993.0	4745.8	4321.4	3999.6	3628.7	3600.8	3216.0
7.5°	6896.0	6779.4	6744.4	6585.9	6278.0	5888.6	5338.2	4752.8	4165.2	4111.5	3498.1
10°	7875.6	7891.9	7828.9	7724.0	7474.4	7077.9	6399.3	5599.4	4762.2	4694.6	3815.3
12.5°	8577.5	8575.2	8586.8	8584.5	8451.5	8150.7	7437.1	6515.9	5419.8	5286.9	4179.1
15°	9034.6	9041.6	9076.5	9197.8	9211.8	9025.2	8430.6	7392.8	6182.4	6016.8	4573.3
17.5°	9496.4	9545.3	9601.3	9715.5	9818.2	9743.6	9323.8	8307.0	6872.7	6749.1	4995.4
20°	10258.9	10326.6	10293.9	10363.9	10417.5	10424.5	10100.4	9151.2	7710.0	7502.4	5478.1
22.5°	11478.6	11476.4	11392.3	11266.4	11161.5	11156.8	10863.0	10018.7	8470.3	8269.7	5963.2
25°	13020.2	13027.2	12863.9	12504.7	12243.6	11924.1	11585.9	10779.0	9284.1	9036.9	6473.9
27.5°	14787.9	14743.6	14496.4	14002.0	13484.3	12938.5	12451.1	11662.9	10147.0	9941.8	7059.3
30°	16376.1	16359.8	16070.6	15466.5	14785.5	14237.5	13530.9	12770.7	11264.1	11012.2	7714.6
32.5°	17854.7	17877.9	17476.9	16851.8	16194.2	15562.2	14815.9	13829.4	12360.2	12003.4	8428.2
35°	19009.0	19032.4	18617.2	18097.2	17420.9	16896.1	16184.8	14958.1	13442.3	13141.5	9249.2
37.5°	19624.7	19655.0	19414.8	19023.0	18600.9	18337.4	17675.1	16411.1	14757.6	14575.7	10219.3
40°	19741.3	19776.3	19671.4	19566.4	19543.1	19732.0	19538.4	18122.8	16581.3	16296.8	11665.2
42.5°	19391.5	19438.1	19484.8	19718.0	20193.7	20886.4	21560.4	20445.6	18929.7	18547.3	13433.0
45°	18472.6	18468.0	18652.2	19256.2	20322.0	21800.6	23673.2	23353.8	22129.4	21674.6	15930.7
47.5°	16900.8	16877.5	17276.3	18136.8	19797.3	21968.5	25396.7	26884.5	26212.9	25793.1	18614.9
50°	14505.7	14620.0	15247.4	16448.4	18493.6	21460.1	25928.4	29200.3	29564.2	29118.8	20783.8
52.5°	11700.2	11695.5	12679.7	14309.8	16562.6	20340.7	25557.6	29620.1	30653.3	30312.7	21851.9
55°	8659.1	8719.7	9743.6	11387.7	14055.6	18297.8	24347.2	29188.7	31068.3	30828.2	22556.2
57°	6441.3	6548.5	7369.4	9109.2	11872.8	16275.8	22735.7	28416.8	31231.6	31101.0	23141.6
57.5°	6012.2	6016.8	6816.7	8397.9	11233.8	15499.2	22274.0	28094.9	31227.0	31154.6	23237.2
60°	3701.1	3817.7	4370.4	5676.4	8223.0	12096.6	19179.3	26245.5	30984.4	31089.3	23645.3
62.5°	2215.5	2264.5	2623.6	3421.2	5300.9	8829.3	15695.1	23878.4	30352.4	30671.9	23617.3
65°	1424.9	1436.6	1599.8	2070.9	3313.9	5967.9	12094.3	20751.1	28717.6	29305.3	22693.8
67.5°	1100.7	1119.4	1184.7	1359.6	1921.6	3717.4	8554.2	17413.8	26073.0	26830.9	20454.9
70°	977.2	986.5	1009.8	1065.7	1271.0	2098.9	5321.9	13603.2	21621.0	21835.5	16007.6
72.5°	797.6	823.2	895.5	914.2	1007.5	1310.7	2961.8	9130.2	14526.7	14580.3	8955.3
75°	618.0	622.6	729.9	783.6	848.9	902.6	1322.3	4603.6	6977.7	6604.5	3451.5
77.5°	461.7	482.7	531.7	599.4	692.6	646.0	592.3	1735.1	2166.6	2126.9	1002.8
80°	296.2	307.9	370.8	450.1	538.7	422.1	333.5	508.4	475.8	489.8	240.2
82.5°	149.2	151.6	237.9	366.1	342.8	212.2	209.9	207.6	177.3	174.9	112.0
85°	16.3	35.0	153.9	209.9	153.9	70.0	98.0	95.6	93.3	95.6	65.3
87.5°	2.3	2.3	25.7	30.3	21.0	23.3	28.0	30.3	37.3	35.0	28.0
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°	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8	2828.8
2.5°	2912.8	2819.5	2646.9	2481.3	2357.8	2278.5	2175.9	2138.5	2084.9	2077.9	2052.2
5°	3038.7	2861.5	2560.6	2322.8	2131.6	1986.9	1861.0	1756.1	1672.1	1653.5	1662.8
7.5°	3218.3	2954.8	2535.0	2210.9	1945.0	1697.8	1497.3	1373.6	1285.0	1252.3	1257.0
10°	3421.2	3078.4	2530.3	2091.9	1686.1	1382.9	1163.7	1054.2	1002.8	984.2	963.2
12.5°	3661.4	3220.6	2518.7	1907.7	1401.6	1103.1	946.8	881.5	832.6	818.5	818.5
15°	3931.9	3372.2	2462.7	1679.1	1138.1	911.9	806.9	755.6	739.3	725.3	725.3
17.5°	4214.1	3521.5	2346.1	1397.0	944.5	781.3	716.0	685.7	662.3	646.0	646.0
20°	4535.9	3668.4	2159.5	1147.4	797.6	697.3	646.0	611.0	592.3	578.4	573.7
22.5°	4841.4	3787.4	1921.6	942.2	695.0	627.3	580.7	543.4	524.7	517.7	517.7
25°	5158.6	3859.6	1634.8	778.9	634.3	569.0	517.7	487.4	471.1	466.4	464.1
27.5°	5466.4	3901.6	1382.9	681.0	578.4	515.4	466.4	443.1	426.8	422.1	424.5
30°	5839.6	3908.6	1138.1	611.0	529.4	464.1	419.8	398.8	389.5	384.8	382.5
32.5°	6217.4	3899.3	956.2	569.0	482.7	419.8	382.5	366.1	359.2	352.1	352.1
35°	6641.9	3850.3	813.9	527.0	438.4	382.5	349.8	335.8	326.5	319.5	317.2
37.5°	7168.9	3824.6	732.3	480.4	398.8	347.5	317.2	303.2	296.2	286.8	284.5
40°	7999.1	3939.0	706.7	438.4	359.2	314.8	286.8	270.5	261.2	251.9	249.5
42.5°	9034.6	4139.5	664.7	396.4	324.2	284.5	256.5	237.9	221.6	209.9	205.2
45°	10375.5	4403.0	599.4	352.1	293.9	251.9	226.2	202.9	181.9	172.6	170.2
47.5°	11781.8	4657.2	541.1	317.2	261.2	223.9	195.9	170.2	151.6	144.6	142.3
50°	12644.7	4708.5	503.7	277.5	228.6	193.6	165.6	142.3	130.6	123.6	123.6
52.5°	13038.8	4626.9	452.4	242.6	198.3	170.2	142.3	123.6	116.6	112.0	109.6
55°	13314.1	4501.0	384.8	209.9	170.2	144.6	125.9	112.0	102.7	98.0	95.6
57°	13475.0	4330.7	333.5	184.2	146.9	125.9	112.0	100.3	91.0	81.6	81.6
57.5°	13481.9	4265.4	319.5	181.9	139.9	121.3	109.6	98.0	86.3	77.0	74.6
60°	13274.4	3817.7	256.5	153.9	112.0	102.7	91.0	77.0	60.6	51.3	48.9
62.5°	12607.4	3248.7	212.2	130.6	91.0	79.3	65.3	58.3	42.0	30.3	30.3
65°	11597.6	2635.3	181.9	104.9	74.6	58.3	44.3	42.0	25.7	14.0	11.7
67.5°	10137.7	2052.2	153.9	86.3	63.0	42.0	30.3	28.0	14.0	4.7	0.0
70°	7724.0	1399.3	128.3	70.0	46.7	30.3	21.0	16.3	9.3	2.3	0.0
72.5°	4452.0	769.6	107.3	53.6	35.0	23.3	16.3	9.3	9.3	0.0	0.0
75°	1590.5	331.1	81.6	39.6	28.0	18.6	11.7	4.7	7.0	2.3	0.0
77.5°	506.1	177.3	53.6	30.3	23.3	14.0	9.3	4.7	4.7	2.3	0.0
80°	149.2	93.3	32.7	25.7	16.3	11.7	7.0	2.3	4.7	2.3	0.0
82.5°	81.6	46.7	25.7	18.6	16.3	9.3	7.0	2.3	2.3	2.3	0.0
85°	42.0	28.0	21.0	18.6	16.3	9.3	7.0	2.3	0.0	2.3	2.3
87.5°	23.3	21.0	21.0	18.6	16.3	11.7	7.0	2.3	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)