

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: P451875

Luminaire Tested: **GALN-SA2D-740-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451875  
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-SA2D-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA 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: 12746 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

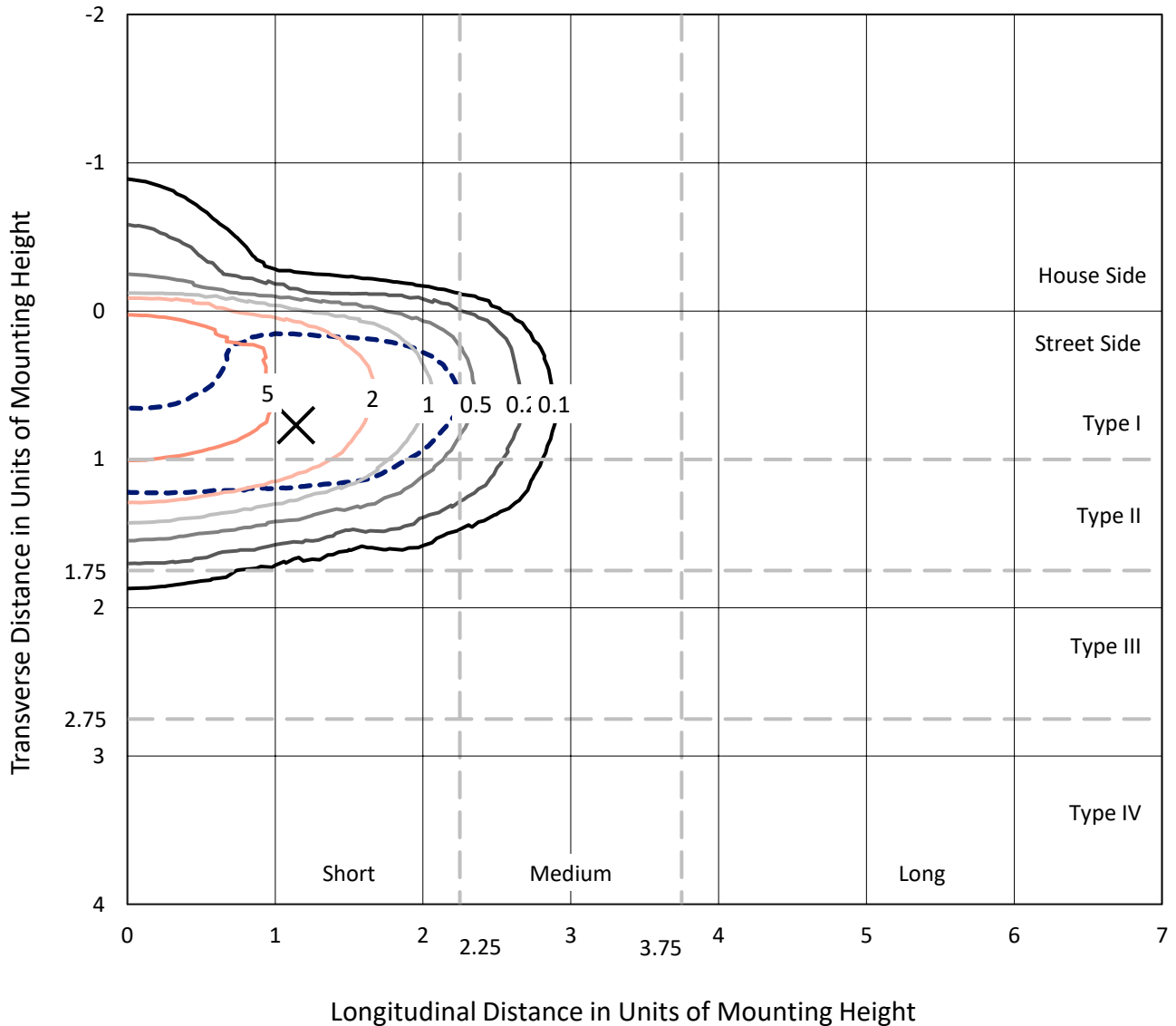
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

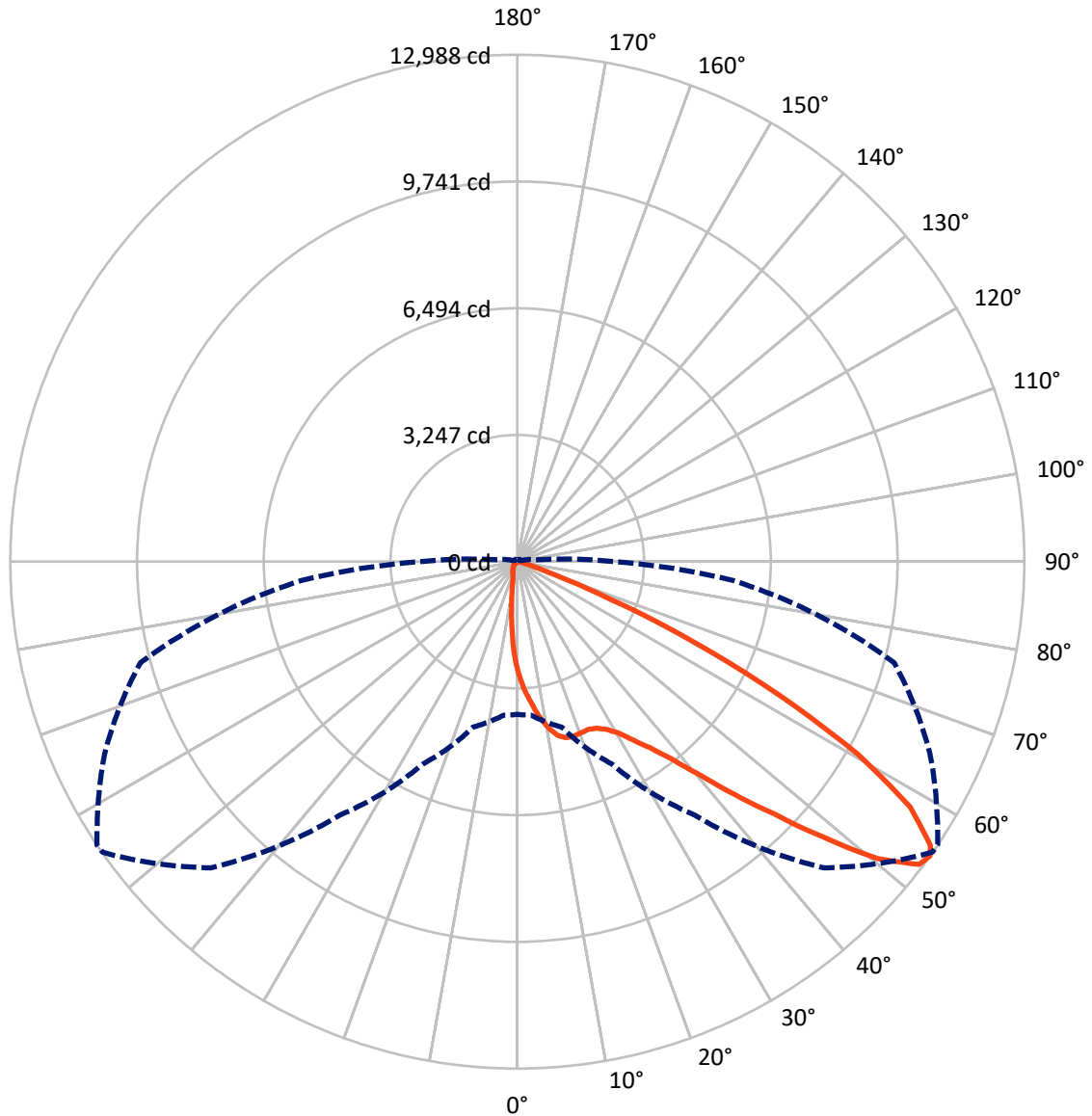
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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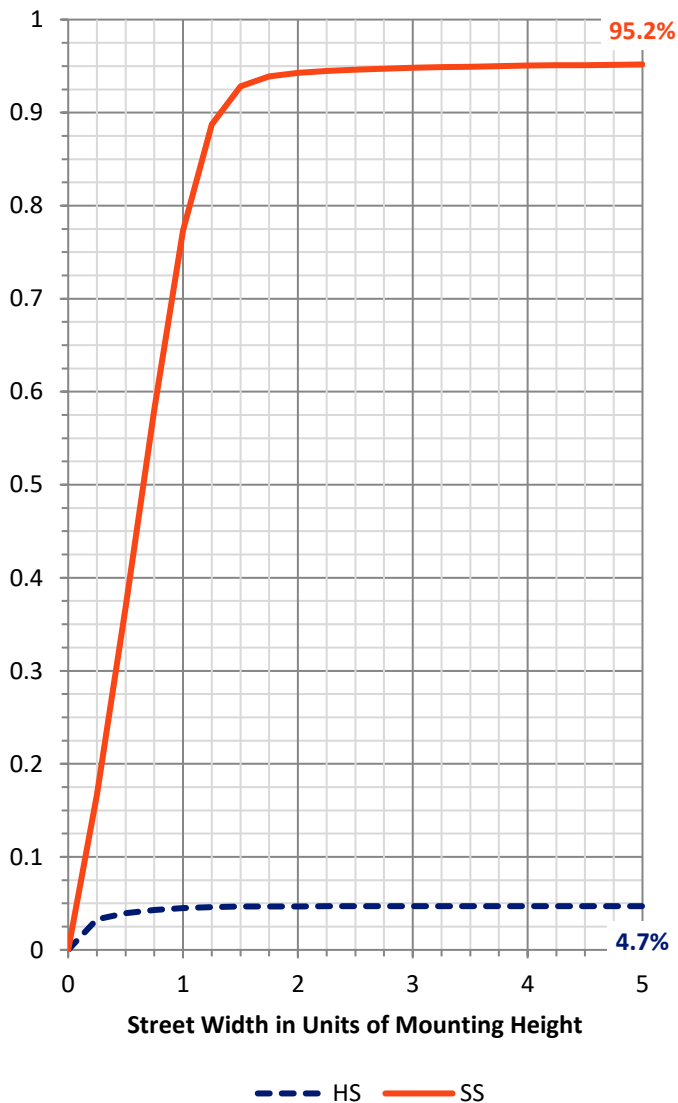
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	602.7	0.0	602.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	12143.3	0.0	12143.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	12746.0	0.0	12746.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.2	2.0
10°-20°	676.5	5.3
20°-30°	1171.6	9.2
30°-40°	2022.3	15.9
40°-50°	3442.1	27.0
50°-60°	3406.4	26.7
60°-70°	1554.7	12.2
70°-80°	199.7	1.6
80°-90°	22.5	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°	12746.0	100.0
0°-180°	12746.0	100.0



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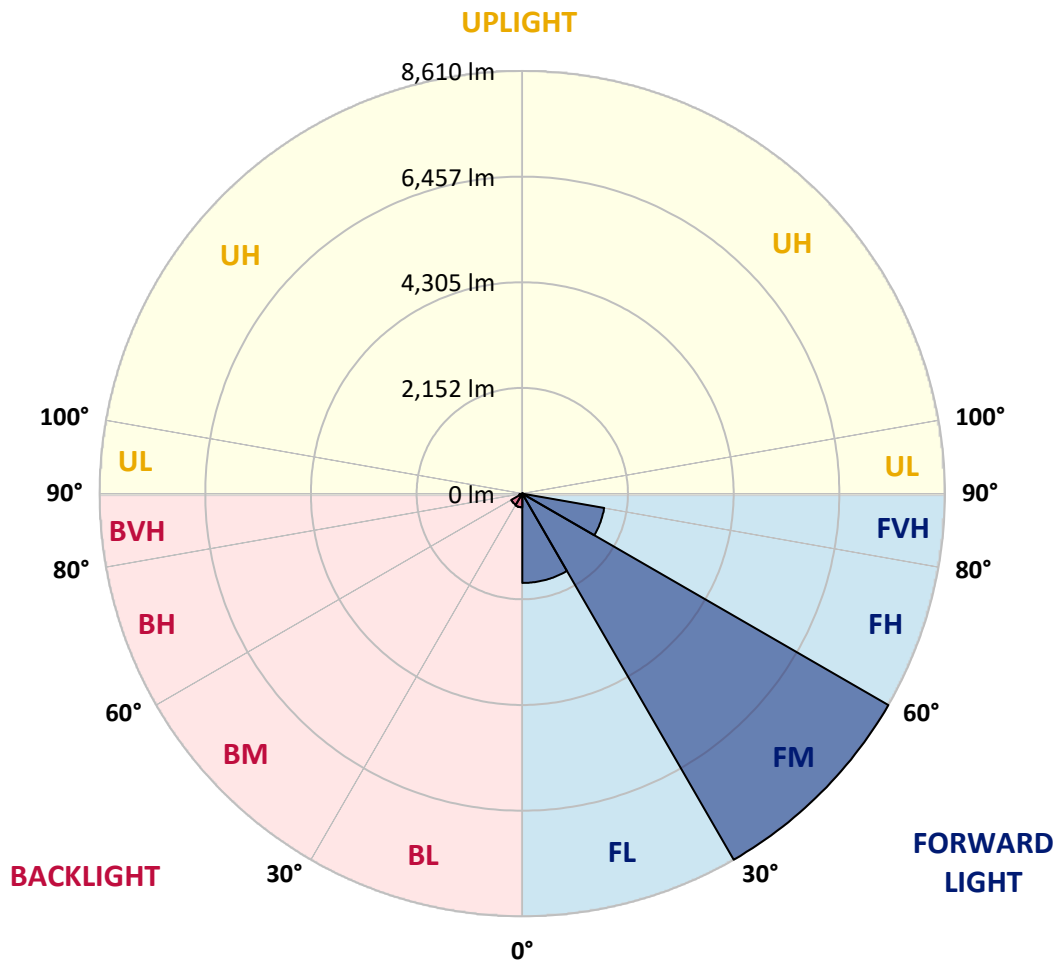
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1819.5	14.3			
FM (30°-60°)	8609.6	67.5			
FH (60°-80°)	1694.1	13.3			G1/1800
FVH (80°-90°)	20.1	0.2			G1/100
BL (0°-30°)	278.7	2.2	B1/500		
BM (30°-60°)	261.2	2.0	B1/1000		
BH (60°-80°)	60.4	0.5	B0/110		G0/110
BVH (80°-90°)	2.4	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8
2.5°	3598.9	3573.9	3539.5	3512.9	3450.1	3359.8	3264.3	3264.3	3172.3	3044.2	2913.5
5°	4150.9	4134.6	4101.1	4032.3	3961.8	3835.3	3643.6	3610.0	3445.8	3213.6	2969.4
7.5°	4375.4	4383.1	4384.9	4366.8	4333.3	4208.6	4018.5	3995.3	3733.0	3421.7	3042.5
10°	4160.4	4198.2	4235.2	4310.0	4415.8	4445.9	4338.4	4314.3	4056.4	3632.4	3121.6
12.5°	3840.5	3861.1	3881.8	3999.6	4212.0	4455.4	4568.0	4567.2	4348.7	3842.2	3222.2
15°	3691.7	3709.8	3711.5	3764.0	3948.0	4302.3	4666.1	4679.0	4634.2	4101.1	3330.6
17.5°	3722.7	3737.3	3725.3	3738.2	3834.5	4133.7	4654.9	4697.9	4865.6	4349.6	3428.6
20°	3924.8	3953.2	3906.7	3870.6	3899.8	4089.0	4617.0	4677.2	5029.0	4592.1	3518.0
22.5°	4287.7	4303.2	4244.7	4145.8	4094.2	4182.8	4606.7	4666.1	5168.3	4790.7	3569.6
25°	4691.0	4685.8	4621.3	4510.4	4402.1	4372.0	4674.7	4728.0	5283.5	4969.6	3585.1
27.5°	5094.3	5109.8	5001.4	4863.8	4734.0	4655.7	4826.9	4866.4	5413.3	5173.4	3604.0
30°	5563.0	5538.0	5431.4	5274.0	5125.3	5016.1	5071.9	5083.1	5592.2	5443.4	3653.9
32.5°	6172.7	6103.9	5984.3	5709.2	5602.5	5417.6	5431.4	5445.2	5809.8	5710.9	3714.1
35°	6999.9	6996.5	6762.6	6392.0	6132.3	5902.7	5842.5	5853.6	6139.1	6108.2	3847.4
37.5°	7995.8	8009.5	7742.9	7369.7	6891.6	6527.0	6403.1	6404.9	6639.6	6656.8	4050.3
40°	8806.7	8842.8	8683.7	8431.7	7959.6	7389.5	7181.4	7162.5	7343.1	7321.6	4340.1
42.5°	9155.8	9189.4	9248.7	9336.4	9076.7	8606.3	8115.3	8141.1	8196.1	8045.6	4665.2
45°	8984.7	9038.0	9271.1	9812.8	10057.0	9898.8	9313.2	9222.9	8989.9	8832.5	4992.0
47.5°	8271.8	8401.7	8791.2	9693.3	10548.1	11083.0	10665.0	10545.5	9784.4	9406.9	5200.1
50°	7099.7	7107.4	7650.1	8803.2	10293.5	11830.2	12045.2	11955.8	10524.9	9729.4	5305.0
52.5°	5146.8	5316.2	5813.2	7148.7	9191.1	11716.7	12925.0	12888.0	11288.5	9894.5	5456.3
54°	3912.7	3945.4	4387.4	5712.6	7924.4	11093.3	12979.1	12987.7	11667.7	9994.3	5545.8
55°	3207.6	3129.3	3593.7	4866.4	7060.1	10542.1	12802.0	12843.3	11838.0	10045.9	5612.0
57.5°	1520.4	1521.2	1876.4	2566.9	4421.8	8185.8	11719.3	11865.5	11856.9	10134.4	5815.8
60°	769.6	774.8	853.1	1185.0	2184.3	5441.7	9689.8	10038.1	10944.5	10147.3	5882.9
62.5°	538.3	532.3	519.4	570.1	919.3	2765.6	7214.1	7516.8	9298.6	9656.3	5669.6
65°	460.9	448.0	411.9	404.2	464.4	1101.6	4493.2	4986.8	7099.7	8361.2	5062.5
67.5°	393.9	388.7	356.0	336.2	328.5	479.8	2318.4	2578.1	4852.7	6010.1	3834.5
70°	334.5	331.9	312.2	287.2	265.7	287.2	859.9	1065.5	2704.5	3236.0	1809.3
72.5°	271.7	274.3	277.8	245.9	223.6	203.8	367.2	427.4	1131.7	1156.6	632.9
75°	238.2	235.6	235.6	214.1	186.6	151.4	202.1	217.6	346.6	321.6	147.1
77.5°	167.7	161.7	189.2	176.3	155.6	107.5	115.2	122.1	143.6	123.0	68.8
80°	116.1	116.1	121.3	158.2	140.2	78.3	70.5	75.7	85.1	73.1	39.6
82.5°	65.4	67.1	79.1	84.3	81.7	52.5	46.4	47.3	56.8	49.9	24.9
85°	7.7	12.9	45.6	44.7	33.5	23.2	25.8	26.7	35.3	31.0	14.6
87.5°	0.9	1.7	9.5	12.0	8.6	9.5	9.5	9.5	12.0	13.8	10.3
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°	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8
2.5°	2843.0	2777.6	2622.0	2441.4	2326.1	2138.7	1980.5	1866.1	1837.7	1782.7	1799.0
5°	2839.5	2703.7	2386.3	2051.0	1693.2	1426.6	1228.0	1071.5	1002.7	957.1	925.3
7.5°	2841.3	2628.8	2119.8	1585.7	1158.3	896.9	712.9	617.4	553.8	527.1	530.6
10°	2846.4	2544.6	1810.2	1174.7	781.7	579.6	466.9	421.4	399.9	396.4	395.6
12.5°	2858.5	2452.6	1514.4	872.0	546.9	421.4	378.4	362.9	356.0	356.0	353.4
15°	2871.4	2351.1	1268.4	648.4	421.4	362.0	342.3	334.5	330.2	330.2	329.4
17.5°	2871.4	2234.1	1038.8	503.1	362.9	332.8	317.3	307.0	303.6	303.6	302.7
20°	2853.3	2098.3	835.0	405.0	329.4	305.3	289.8	278.6	274.3	272.6	271.7
22.5°	2790.5	1916.8	664.7	348.3	301.8	281.2	261.4	248.5	245.1	243.4	244.2
25°	2678.7	1712.1	526.3	306.1	276.9	252.0	234.8	225.3	221.9	221.9	222.7
27.5°	2563.5	1498.0	417.1	274.3	246.8	224.4	210.7	204.7	203.8	206.4	207.2
30°	2456.9	1283.0	338.0	248.5	220.1	201.2	191.8	190.0	190.0	190.9	191.8
32.5°	2338.2	1094.7	282.9	226.2	198.6	182.3	177.1	177.1	178.9	178.9	180.6
35°	2263.4	933.0	248.5	204.7	182.3	168.5	165.1	166.0	168.5	172.0	173.7
37.5°	2223.0	804.0	226.2	187.5	166.8	157.4	153.9	155.6	161.7	167.7	168.5
40°	2226.4	706.9	208.1	172.8	154.8	144.5	141.9	147.1	153.1	159.1	159.9
42.5°	2264.2	634.6	190.9	155.6	144.5	129.9	129.0	134.2	136.7	142.8	143.6
45°	2308.9	582.2	172.8	137.6	125.6	112.7	113.5	117.8	121.3	130.7	132.4
47.5°	2322.7	546.1	152.2	117.0	103.2	98.9	99.8	102.3	109.2	117.8	118.7
50°	2338.2	523.7	132.4	98.9	87.7	86.9	87.7	89.4	93.7	97.2	96.3
52.5°	2404.4	522.8	116.1	86.0	74.8	76.5	77.4	76.5	73.1	67.9	66.2
54°	2466.3	525.4	108.4	80.0	68.8	71.4	70.5	66.2	57.6	52.5	49.9
55°	2516.2	528.0	104.1	75.7	65.4	66.2	67.1	58.5	47.3	42.1	40.4
57.5°	2614.2	522.0	93.7	66.2	57.6	54.2	53.3	38.7	25.8	22.4	20.6
60°	2565.2	471.2	85.1	56.8	49.0	43.9	36.1	21.5	12.9	9.5	9.5
62.5°	2372.6	399.9	75.7	46.4	40.4	33.5	18.9	12.0	6.0	3.4	2.6
65°	2122.3	336.2	67.9	37.0	31.8	21.5	10.3	7.7	2.6	0.0	0.0
67.5°	1578.0	249.4	57.6	29.2	24.1	13.8	6.9	4.3	0.9	0.0	0.0
70°	731.0	152.2	49.0	22.4	17.2	10.3	5.2	2.6	0.0	0.0	0.0
72.5°	209.8	95.5	40.4	16.3	12.0	8.6	4.3	1.7	0.9	0.0	0.0
75°	73.1	76.5	30.1	12.0	9.5	6.0	3.4	1.7	0.9	0.0	0.0
77.5°	43.9	61.9	18.9	10.3	7.7	5.2	3.4	1.7	0.9	0.9	0.0
80°	24.9	41.3	12.0	8.6	6.9	4.3	2.6	1.7	0.9	0.9	0.0
82.5°	13.8	19.8	9.5	7.7	6.0	4.3	2.6	1.7	0.9	0.9	0.9
85°	11.2	10.3	7.7	6.9	5.2	3.4	2.6	0.9	0.0	0.0	0.0
87.5°	8.6	6.9	6.9	6.9	5.2	3.4	2.6	0.9	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)