

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: P453722

Luminaire Tested: **GALN-SA4D-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453722  
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-SA4D-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 21821 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

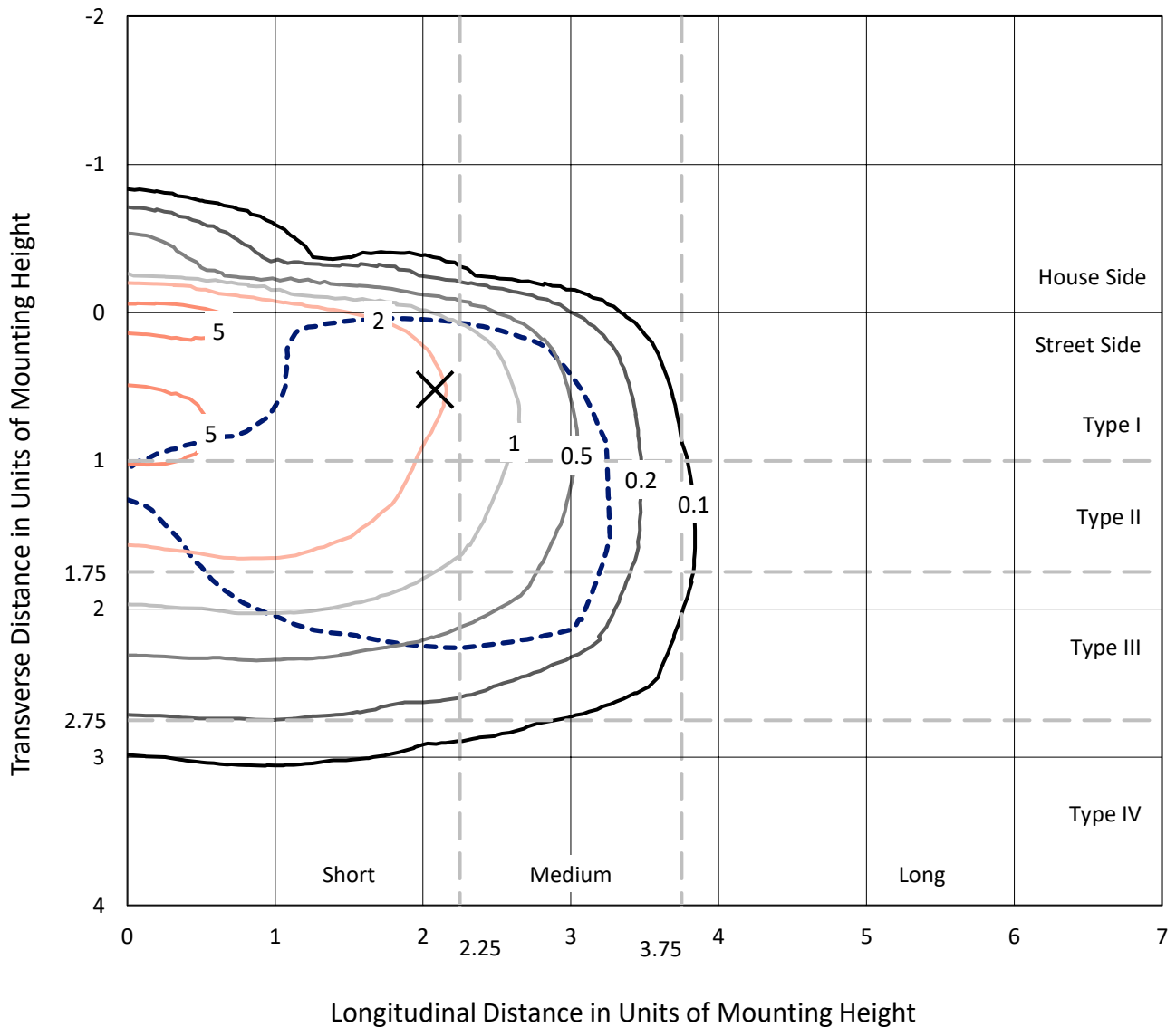
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

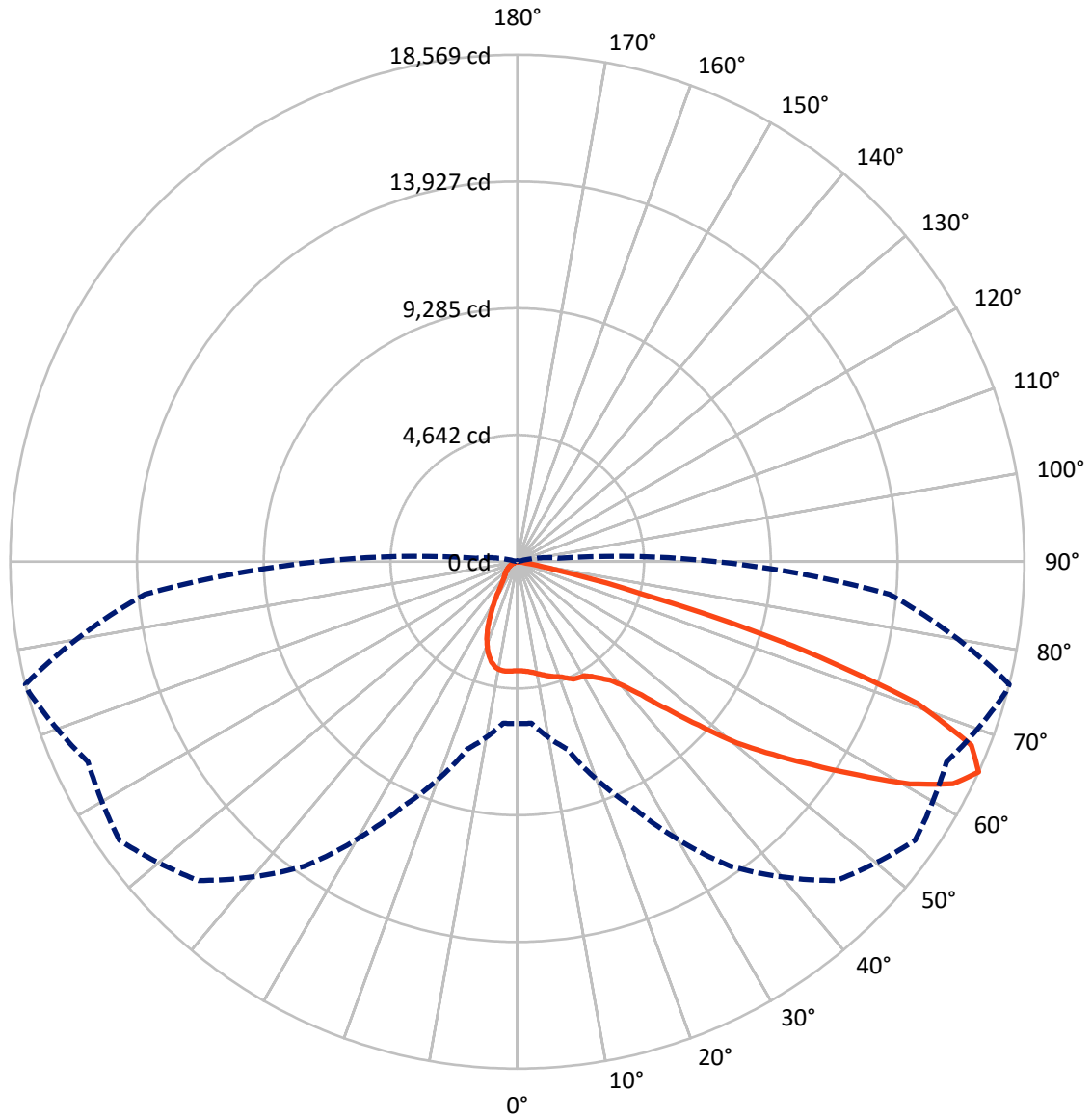
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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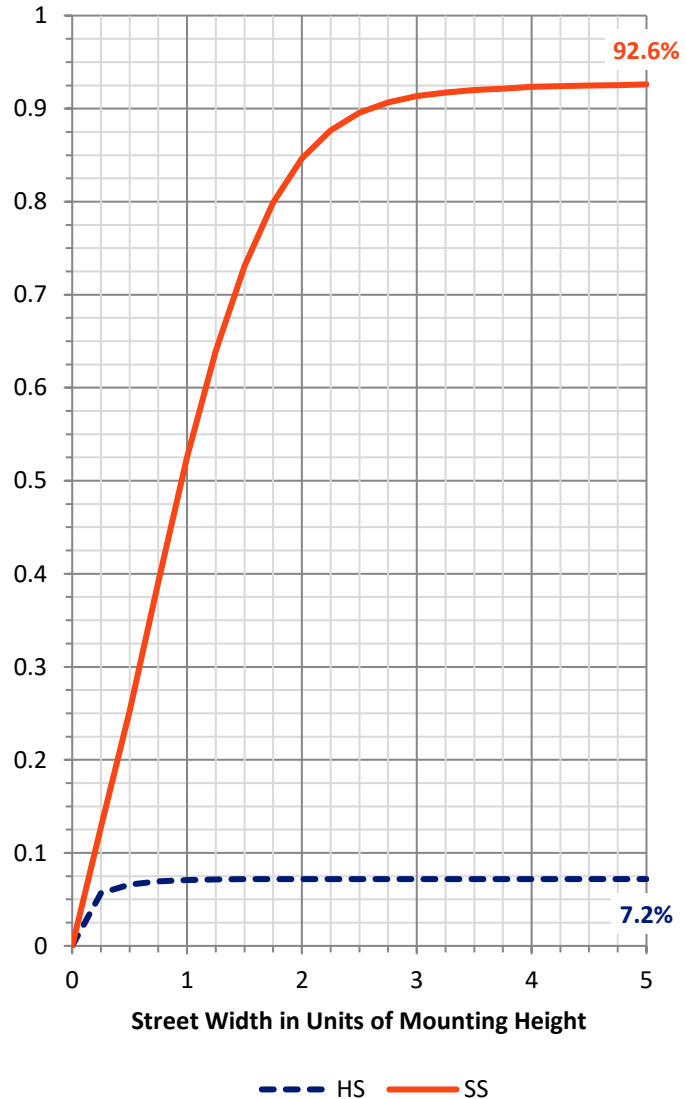
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1575.9	0.0	1575.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	20245.1	0.0	20245.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	21821.0	0.0	21821.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.8	1.5
10°-20°	732.2	3.4
20°-30°	1179.8	5.4
30°-40°	2051.4	9.4
40°-50°	3389.8	15.5
50°-60°	5236.5	24.0
60°-70°	6394.6	29.3
70°-80°	2426.9	11.1
80°-90°	81.0	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°	21821.0	100.0
0°-180°	21821.0	100.0

**Coefficient of Utilization**



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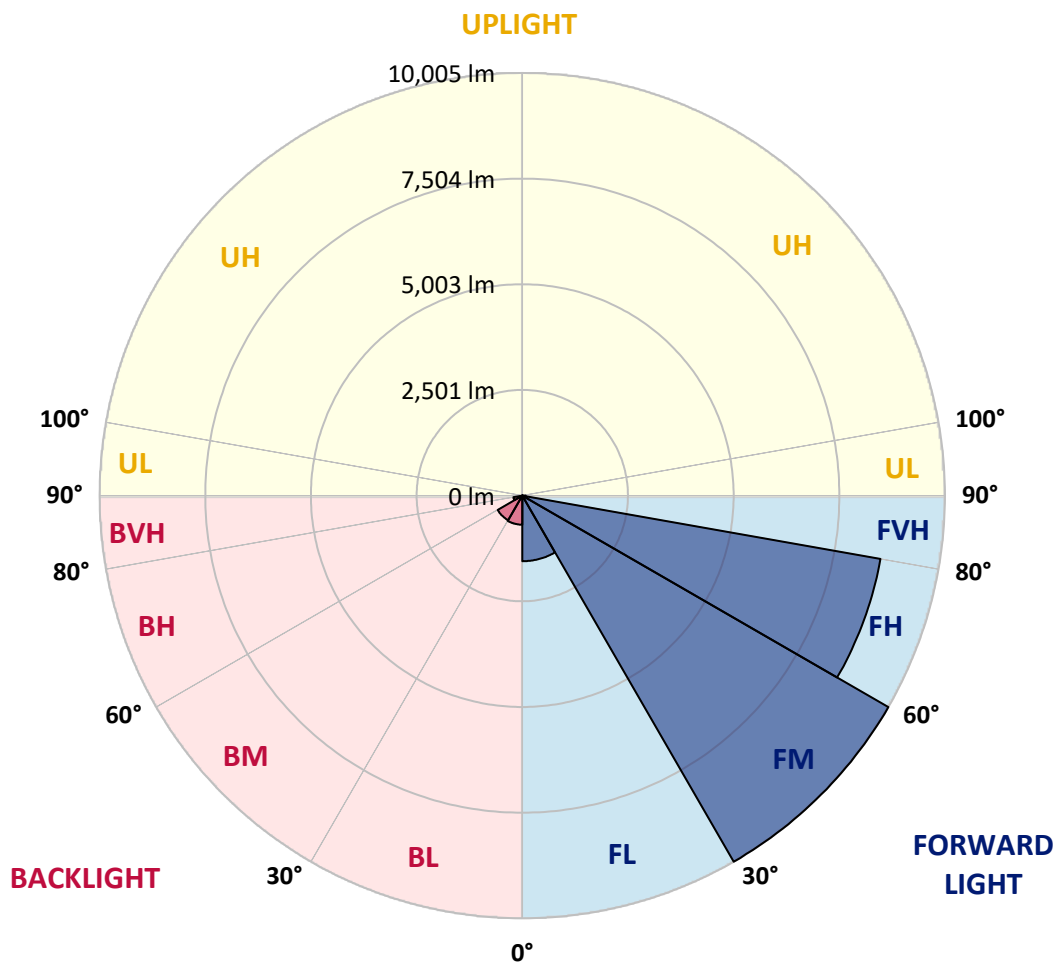
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1552.3	7.1			
FM	(30°-60°)	10005.3	45.9			
FH	(60°-80°)	8607.6	39.4			G4/12000
FVH	(80°-90°)	79.9	0.4			G1/100
BL	(0°-30°)	688.5	3.2	B2/1000		
BM	(30°-60°)	672.5	3.1	B1/1000		
BH	(60°-80°)	213.8	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8
2.5°	3814.6	3816.1	3825.4	3848.5	3883.9	3913.2	3937.8	3977.9	4005.6	4008.7	4017.9
5°	3551.1	3532.7	3551.1	3611.2	3665.1	3746.8	3846.9	3947.1	4036.4	4042.6	4085.7
7.5°	3255.3	3270.7	3300.0	3361.6	3463.3	3588.1	3732.9	3911.6	4081.1	4096.5	4181.3
10°	2954.9	2988.8	3036.6	3130.5	3272.3	3434.1	3631.3	3887.0	4152.0	4173.6	4319.9
12.5°	2677.6	2693.0	2751.6	2877.9	3053.5	3281.5	3554.2	3873.1	4230.6	4256.7	4467.8
15°	2465.0	2485.0	2535.9	2649.9	2845.5	3138.3	3491.1	3868.5	4307.6	4344.6	4615.7
17.5°	2424.9	2437.3	2458.8	2535.9	2706.9	3024.2	3434.1	3867.0	4381.5	4426.2	4752.8
20°	2589.8	2579.0	2557.4	2549.7	2643.7	2936.4	3392.5	3879.3	4452.4	4503.2	4897.6
22.5°	3002.7	3016.5	2890.2	2740.8	2710.0	2922.6	3386.3	3937.8	4564.9	4625.0	5059.4
25°	3879.3	3773.0	3575.8	3218.4	2948.8	3007.3	3455.6	4076.5	4695.8	4762.1	5205.8
27.5°	4848.3	4816.0	4509.4	3920.9	3418.6	3186.0	3578.9	4182.8	4739.0	4806.7	5289.0
30°	5800.5	5839.0	5487.7	4837.6	4101.1	3517.2	3694.4	4222.9	4777.5	4848.3	5395.3
32.5°	6683.2	6729.4	6421.3	5777.3	4905.3	4090.4	3893.2	4378.5	4939.2	5011.7	5572.4
35°	7378.0	7384.2	7151.6	6638.5	5783.5	4786.7	4323.0	4651.1	5158.0	5242.7	5760.4
37.5°	8015.9	8006.6	7733.9	7291.8	6515.3	5478.5	4863.8	4965.4	5407.6	5495.4	6031.5
40°	8488.8	8495.0	8407.2	7991.2	7197.8	6117.8	5292.0	5259.7	5826.6	5963.8	6425.9
42.5°	8804.7	8861.7	8904.8	8693.7	8055.9	6905.1	5949.9	5889.8	6553.8	6667.8	6983.6
45°	9060.4	9162.1	9377.8	9367.0	8880.2	7871.0	6852.7	6729.4	7584.5	7706.2	7693.9
47.5°	9246.8	9350.0	9707.5	9923.2	9655.1	8807.7	7988.1	7881.8	8815.5	8947.9	8478.1
50°	9342.3	9465.6	9921.6	10339.1	10260.6	9710.6	9282.3	9288.4	10302.2	10430.0	9387.0
52.5°	9119.0	9279.2	10035.6	10787.5	10940.0	10574.8	10494.7	10698.1	11625.6	11734.9	10208.2
55°	8405.6	8607.5	9880.0	11169.5	11727.2	11594.7	11872.1	12181.7	13072.2	13143.1	11050.9
57.5°	7954.2	8168.4	9420.9	11494.6	12673.2	12876.5	13315.6	13542.1	14565.1	14745.3	12018.4
60°	7573.7	7741.6	9043.5	11563.9	13634.5	14444.9	14871.6	15105.8	16407.6	16524.7	13083.0
62.5°	6940.5	7133.1	8405.6	11080.2	14118.3	15700.5	16584.8	16480.1	17832.7	17914.4	13736.2
65°	5922.2	5939.1	7111.5	9864.6	13619.1	16515.5	17788.0	17349.0	18513.7	18569.1	13685.4
67.5°	4420.1	4583.4	5470.8	7754.0	11503.8	15819.1	18177.8	17372.1	18083.8	17929.8	12599.2
70°	2847.1	2971.9	3708.3	5376.8	8294.7	13201.6	16885.2	16181.2	15871.5	15529.5	10312.9
72.5°	1314.2	1474.4	2203.1	3072.0	4919.2	9404.0	13706.9	13146.1	11423.7	10579.5	6555.4
75°	573.1	613.2	1087.7	1620.7	2306.3	4973.1	9037.3	8160.7	5159.6	4712.8	2623.7
77.5°	349.7	375.9	570.0	868.9	905.9	1895.0	4868.4	3560.4	1594.5	1406.6	711.8
80°	237.3	266.5	414.4	454.5	309.7	528.4	1827.2	950.6	322.0	308.1	152.5
82.5°	115.5	146.4	306.6	254.2	134.0	169.5	531.5	203.4	94.0	87.8	53.9
85°	16.9	29.3	172.5	166.4	60.1	40.1	94.0	50.8	32.4	30.8	24.6
87.5°	0.0	0.0	58.5	26.2	6.2	6.2	10.8	10.8	12.3	10.8	12.3
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°	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8	3991.8
2.5°	4022.6	4030.3	4001.0	3959.4	3914.7	3870.0	3806.9	3749.9	3716.0	3736.0	3686.7
5°	4095.0	4088.8	4011.8	3885.5	3717.5	3515.7	3315.4	3144.4	3089.0	3005.8	2996.5
7.5°	4195.1	4178.2	4014.9	3725.2	3346.2	2967.2	2597.5	2352.5	2212.3	2093.7	2096.8
10°	4335.3	4286.0	3979.4	3443.3	2819.3	2247.8	1776.3	1452.8	1312.6	1267.9	1232.5
12.5°	4480.1	4384.6	3880.8	3062.8	2195.4	1536.0	1080.0	882.8	796.5	768.8	765.7
15°	4609.5	4458.6	3708.3	2605.2	1596.1	981.4	736.4	671.7	660.9	662.5	660.9
17.5°	4737.4	4517.1	3469.5	2119.9	1084.6	704.1	633.2	617.8	622.4	628.6	627.0
20°	4843.7	4529.4	3164.4	1617.7	767.2	617.8	594.7	591.6	596.2	600.8	600.8
22.5°	4959.3	4538.7	2802.4	1120.0	627.0	574.7	562.3	562.3	568.5	574.7	576.2
25°	5045.5	4487.8	2369.5	804.2	553.1	533.1	526.9	528.4	534.6	537.7	536.1
27.5°	5059.4	4344.6	1910.4	616.2	502.2	482.2	476.1	482.2	474.5	479.1	476.1
30°	5071.7	4162.8	1445.1	519.2	456.0	425.2	416.0	406.7	400.6	392.9	391.3
32.5°	5110.3	3948.6	1055.3	466.8	412.9	379.0	357.4	331.2	311.2	305.0	303.5
35°	5127.2	3691.3	774.9	425.2	374.4	337.4	298.9	261.9	232.6	221.8	229.6
37.5°	5191.9	3441.8	600.8	394.4	340.5	294.3	245.0	198.7	171.0	164.8	167.9
40°	5324.4	3170.6	503.8	368.2	311.2	254.2	194.1	149.4	131.0	124.8	123.2
42.5°	5537.0	2901.0	448.3	343.6	281.9	214.1	152.5	117.1	101.7	97.1	97.1
45°	5795.8	2642.2	409.8	317.4	251.1	172.5	120.2	94.0	84.7	81.7	81.7
47.5°	6136.3	2415.7	377.5	291.2	217.2	137.1	97.1	81.7	75.5	77.0	78.6
50°	6481.4	2247.8	342.0	261.9	178.7	112.5	83.2	72.4	70.9	72.4	72.4
52.5°	6741.8	2149.2	294.3	221.8	140.2	94.0	73.9	67.8	66.2	63.2	63.2
55°	7093.0	2127.6	234.2	180.3	110.9	78.6	66.2	61.6	57.0	53.9	52.4
57.5°	7544.4	2152.3	180.3	140.2	86.3	64.7	58.5	50.8	44.7	38.5	38.5
60°	7824.8	2096.8	140.2	107.8	63.2	52.4	44.7	37.0	29.3	24.6	23.1
62.5°	7735.5	1862.6	110.9	80.1	44.7	38.5	29.3	24.6	16.9	12.3	10.8
65°	7274.8	1503.6	89.4	55.5	32.4	23.1	15.4	15.4	7.7	1.5	0.0
67.5°	6367.4	1113.9	70.9	37.0	18.5	10.8	7.7	4.6	0.0	0.0	0.0
70°	5182.7	804.2	55.5	23.1	10.8	7.7	3.1	1.5	0.0	0.0	0.0
72.5°	3290.8	460.6	43.1	13.9	7.7	3.1	0.0	0.0	0.0	0.0	0.0
75°	1272.6	180.3	29.3	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	360.5	84.7	16.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	94.0	37.0	9.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.7	15.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.2	6.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	1.5	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)