

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: P647357

Luminaire Tested: **GALN-SA3D-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18503.9 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

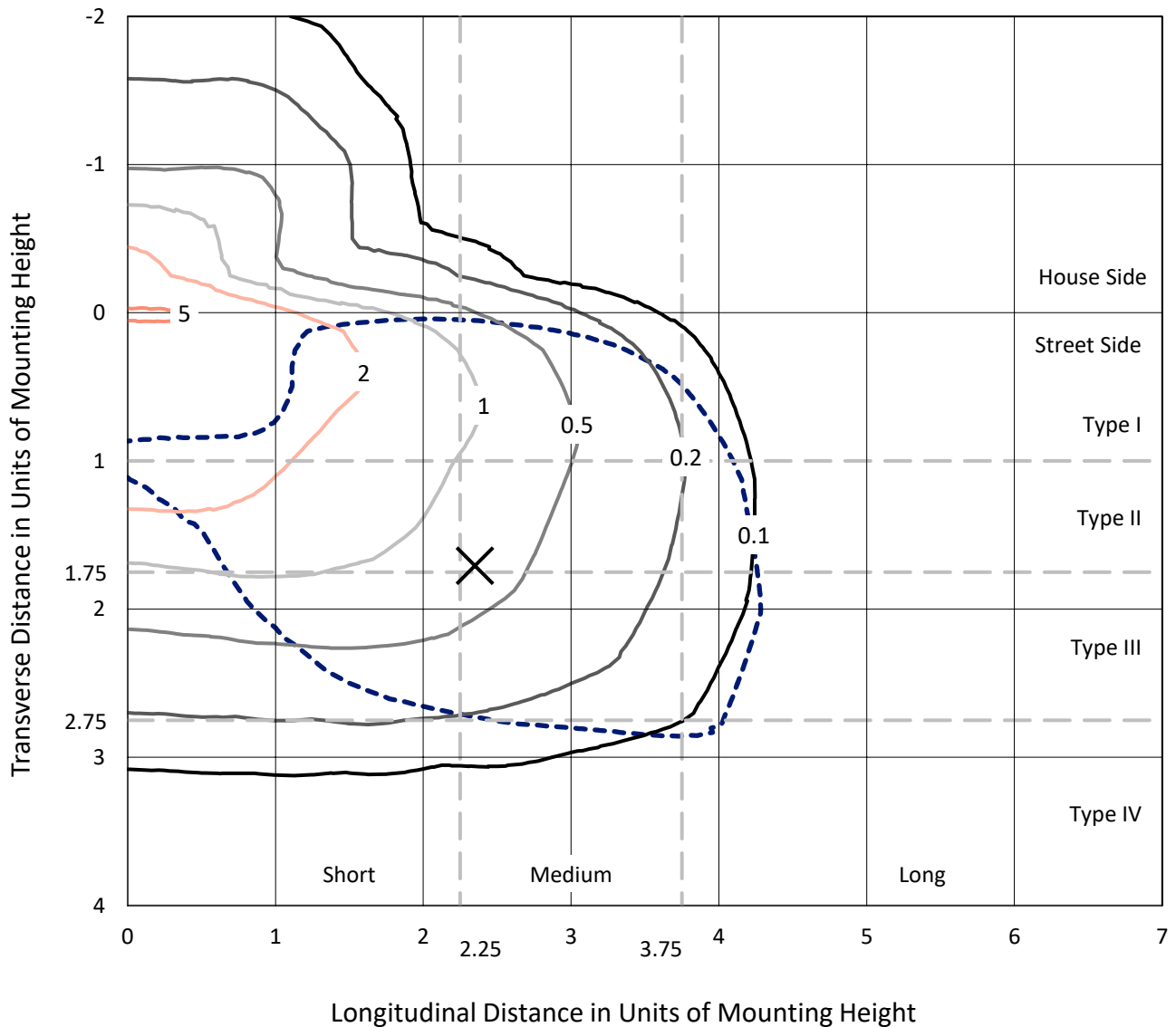
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

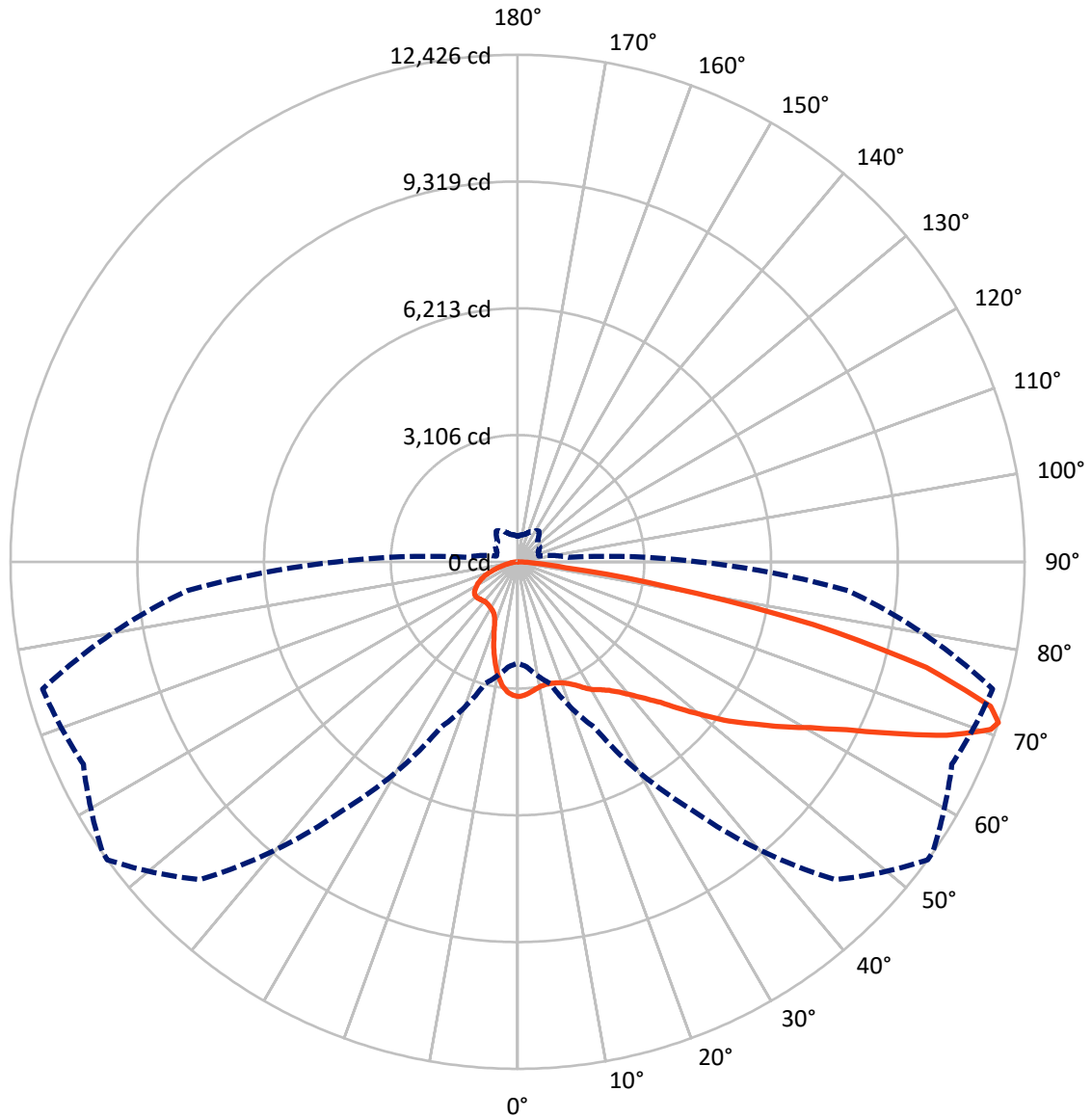
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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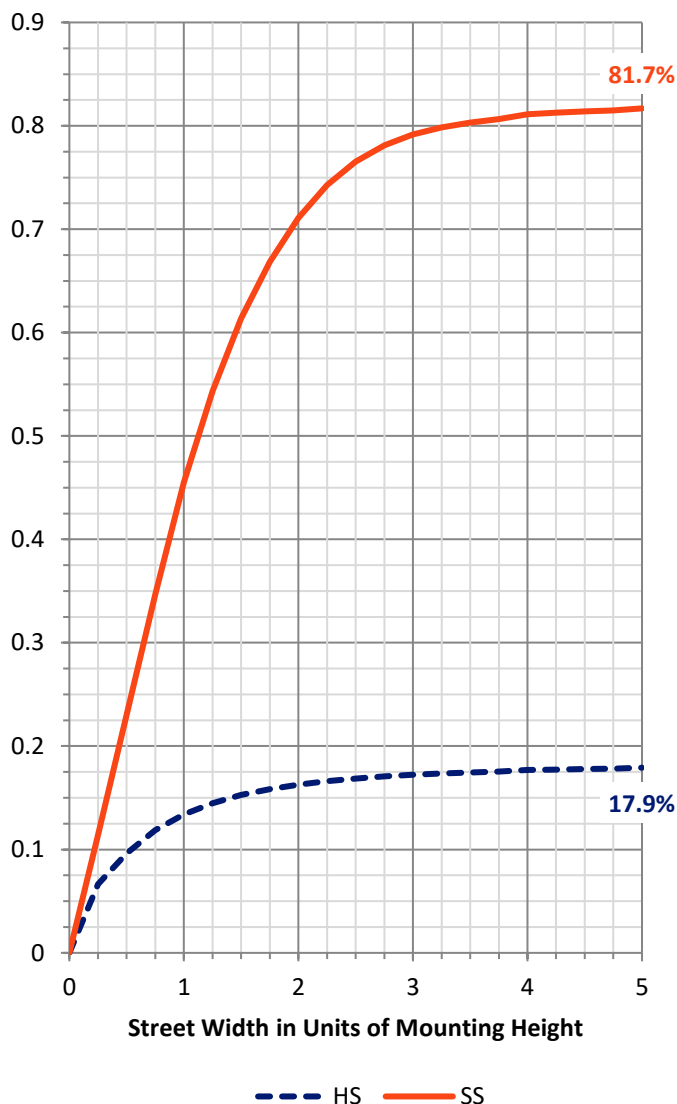
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3340.8	0.0	3340.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	15163.1	0.0	15163.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	18503.9	0.0	18503.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.2	1.6
10°-20°	776.8	4.2
20°-30°	1293.5	7.0
30°-40°	1912.6	10.3
40°-50°	2694.0	14.6
50°-60°	3607.4	19.5
60°-70°	4546.8	24.6
70°-80°	3105.5	16.8
80°-90°	273.1	1.5
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°	18503.9	100.0
0°-180°	18503.9	100.0

**Coefficient of Utilization**

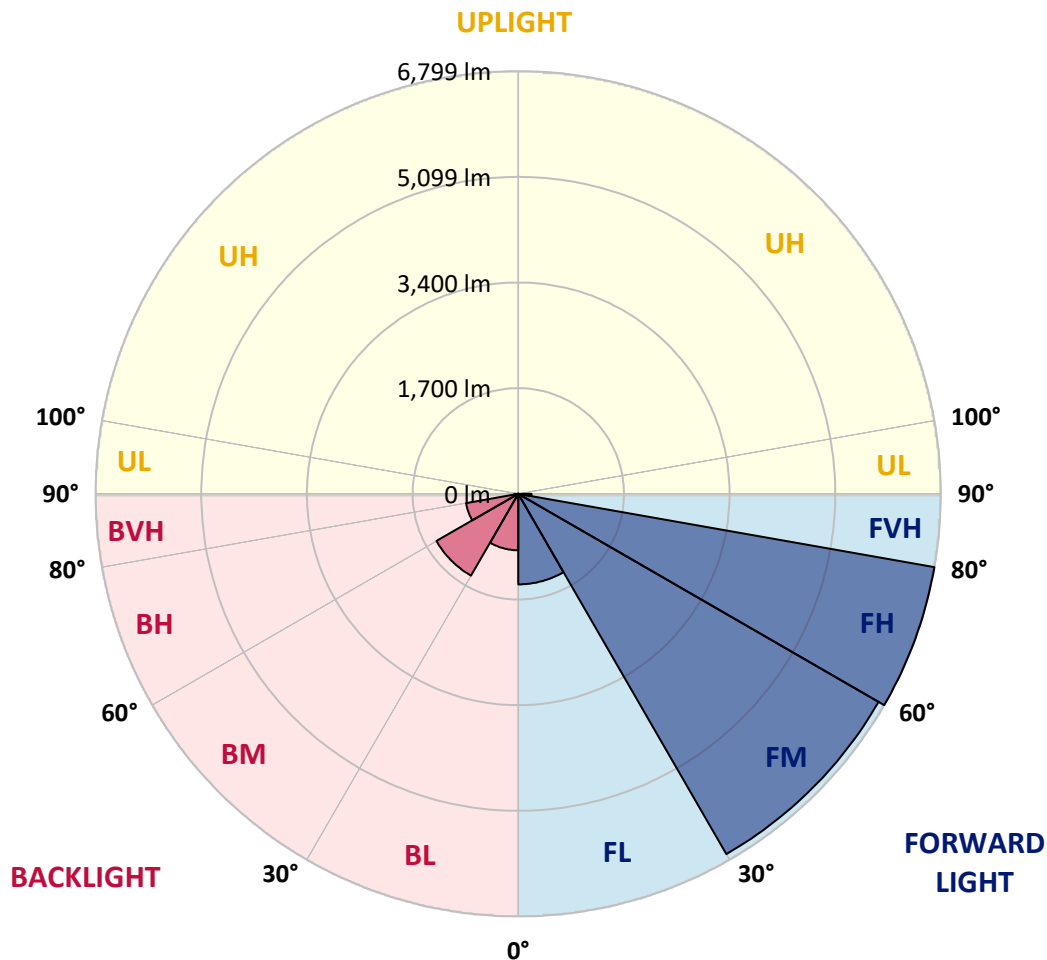


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.6	7.9			
FM (30°-60°)	6694.0	36.2			
FH (60°-80°)	6799.1	36.7			G3/7500
FVH (80°-90°)	213.5	1.2			G2/225
BL (0°-30°)	908.0	4.9	B2/1000		
BM (30°-60°)	1520.0	8.2	B2/2500		
BH (60°-80°)	853.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	59.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3189.4	3204.4	3208.4	3218.4	3239.4	3256.4	3273.4	3271.4	3295.3	3305.4	3314.4
5°	3047.5	3051.5	3066.5	3086.4	3123.5	3170.4	3216.4	3217.4	3276.4	3323.4	3346.3
7.5°	2943.5	2956.5	2966.6	2987.5	3026.5	3077.5	3150.4	3156.4	3261.4	3354.4	3403.3
10°	2875.6	2890.6	2901.6	2927.6	2966.6	3023.5	3102.5	3113.4	3250.4	3403.3	3489.3
12.5°	2813.6	2828.6	2838.6	2872.6	2923.6	2993.5	3082.4	3095.4	3254.4	3460.3	3583.2
15°	2851.6	2863.6	2859.6	2869.5	2903.5	2983.5	3090.5	3103.5	3269.4	3515.3	3676.2
17.5°	3020.5	3030.5	2997.5	2959.5	2943.5	3002.5	3115.5	3129.4	3299.3	3572.2	3771.2
20°	3269.4	3296.4	3224.4	3139.4	3062.5	3070.5	3167.4	3182.4	3341.4	3629.2	3868.1
22.5°	3593.2	3613.2	3525.2	3385.3	3243.4	3170.4	3245.4	3254.4	3404.3	3703.2	3974.0
25°	3974.0	3986.0	3864.1	3684.2	3479.3	3341.4	3352.3	3368.3	3508.2	3787.1	4068.0
27.5°	4343.8	4381.8	4240.9	4021.0	3751.1	3521.2	3499.2	3509.2	3621.2	3834.1	4133.0
30°	4782.6	4779.7	4630.7	4375.8	4030.0	3717.1	3638.2	3636.2	3682.1	3857.1	4179.9
32.5°	5132.5	5173.4	5027.5	4749.7	4348.9	3920.1	3734.1	3730.1	3729.1	3897.1	4249.9
35°	5530.3	5536.3	5402.3	5122.5	4693.7	4175.0	3868.1	3848.1	3825.1	3983.0	4344.9
37.5°	5886.0	5914.1	5791.1	5477.3	5032.5	4439.8	4052.0	4039.0	3969.0	4132.0	4496.8
40°	6163.9	6184.9	6111.0	5812.1	5366.4	4725.6	4285.9	4261.9	4176.9	4375.8	4699.6
42.5°	6254.9	6297.9	6326.9	6179.9	5750.1	5064.5	4573.7	4543.7	4478.8	4745.6	4933.5
45°	6261.9	6329.9	6482.8	6489.8	6136.0	5470.3	4909.6	4888.6	4883.6	5219.4	5262.4
47.5°	6209.0	6277.9	6534.8	6673.7	6479.8	5880.1	5394.3	5361.4	5364.3	5805.1	5631.2
50°	6081.0	6162.9	6474.8	6791.7	6748.7	6305.9	5906.1	5895.1	5957.1	6473.8	6014.0
52.5°	5840.1	5939.1	6412.8	6865.6	6948.6	6672.7	6487.8	6456.8	6613.7	7199.5	6432.8
55°	5173.4	5322.4	6185.9	6906.6	7138.5	7023.5	7011.5	7067.5	7275.4	7991.1	6893.6
57.5°	4825.6	4937.5	5693.2	6913.6	7378.4	7431.3	7623.2	7637.2	8001.0	8831.6	7414.3
60°	4635.7	4734.6	5423.3	6867.6	7713.2	7936.1	8248.9	8298.9	8709.7	9742.2	7954.0
62.5°	4469.8	4554.7	5261.4	6708.7	8091.0	8684.7	9059.5	9083.5	9514.3	10747.7	8486.8
65°	4079.0	4175.9	4935.6	6549.7	8416.9	9620.3	10135.0	10107.0	10370.8	11615.3	8820.7
67.5°	3552.2	3675.2	4326.9	6001.0	8577.8	10642.7	11346.4	11311.4	11216.4	12183.9	8916.6
70°	2879.6	2945.6	3548.2	5052.5	7935.1	11179.4	12302.9	12265.9	11740.1	12258.9	8462.8
71°	2477.8	2580.7	3089.5	4487.8	7400.3	11015.6	12425.8	12415.9	11741.2	12052.0	8121.0
72.5°	1934.0	1997.0	2446.8	3477.3	6289.9	10084.0	12122.0	12160.0	11486.3	11477.3	7416.3
75°	1223.4	1251.4	1535.2	2047.0	3451.3	7141.4	10347.9	10450.8	10199.0	9394.4	5515.3
77.5°	710.7	746.6	919.6	1206.4	1491.2	3876.1	7404.4	7516.3	7086.5	5172.4	2257.9
80°	413.8	453.7	605.7	700.6	684.7	1438.3	3770.1	3961.0	3068.5	1306.4	633.7
82.5°	229.9	256.9	425.8	426.8	364.8	469.8	1186.4	1241.4	875.6	526.7	258.9
85°	166.9	188.9	274.8	248.8	174.9	201.9	412.8	432.8	353.8	221.9	83.9
87.5°	59.0	83.9	151.0	120.0	48.0	42.0	118.9	96.9	90.0	61.9	19.0
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°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3319.4	3321.3	3311.4	3293.4	3275.4	3252.3	3226.4	3206.4	3197.4	3196.4	3195.4
5°	3355.3	3360.3	3322.3	3266.4	3204.4	3128.5	3063.5	2989.5	2970.5	2940.6	2949.6
7.5°	3413.3	3410.3	3335.3	3216.4	3071.5	2910.6	2774.6	2695.6	2613.7	2590.7	2591.7
10°	3496.3	3477.3	3335.3	3114.5	2872.6	2633.7	2443.8	2323.9	2258.9	2204.9	2184.9
12.5°	3584.2	3536.3	3303.4	2971.6	2616.7	2323.9	2120.0	1958.0	1916.1	1872.1	1873.1
15°	3668.2	3588.3	3240.4	2770.6	2340.9	1993.0	1795.1	1698.2	1685.2	1690.2	1689.2
17.5°	3744.1	3625.2	3144.4	2546.7	2019.0	1709.1	1604.2	1611.2	1646.2	1671.2	1674.1
20°	3821.1	3647.2	3001.5	2246.9	1715.2	1537.3	1541.3	1596.2	1649.2	1683.1	1688.1
22.5°	3894.1	3657.2	2833.6	1957.0	1495.3	1464.3	1523.2	1582.2	1634.2	1667.2	1672.2
25°	3942.0	3634.2	2595.7	1654.2	1387.3	1438.3	1500.2	1550.3	1594.2	1628.2	1636.2
27.5°	3955.0	3560.2	2300.8	1409.3	1337.4	1413.3	1470.2	1507.3	1541.3	1573.2	1579.2
30°	3948.0	3451.3	1977.0	1265.4	1308.3	1384.3	1428.3	1455.3	1496.2	1521.2	1526.2
32.5°	3937.1	3324.4	1639.2	1188.4	1284.4	1357.3	1383.3	1407.3	1406.3	1396.3	1403.3
35°	3941.1	3172.4	1365.3	1142.4	1263.4	1337.4	1359.3	1329.4	1243.4	1239.4	1235.4
37.5°	3962.1	3022.5	1166.4	1110.5	1252.4	1334.3	1346.4	1208.4	1132.5	1097.5	1088.4
40°	4016.0	2847.6	1035.5	1086.5	1251.4	1357.3	1287.3	1147.4	1001.5	933.6	928.6
42.5°	4088.0	2675.7	955.5	1071.5	1263.4	1392.3	1263.4	1061.4	902.6	862.6	856.6
45°	4194.9	2478.7	911.6	1064.5	1281.4	1405.3	1255.4	998.5	862.6	830.6	830.6
47.5°	4315.9	2290.9	887.5	1059.5	1304.3	1396.3	1184.4	978.5	843.6	847.6	866.5
50°	4435.8	2128.0	869.6	1048.5	1324.4	1391.3	1155.4	977.5	848.6	899.6	933.6
52.5°	4574.8	2013.0	847.6	1030.5	1324.4	1359.3	1146.5	997.5	862.6	877.6	892.5
55°	4742.6	1977.0	819.6	991.5	1300.3	1279.3	1141.5	1026.5	872.6	837.6	843.6
57.5°	4964.5	2035.0	792.6	942.5	1245.4	1196.4	1139.4	1034.5	849.6	820.6	814.6
60°	5222.4	2150.0	784.6	892.5	1170.4	1125.4	1127.4	1011.5	817.6	787.6	792.6
62.5°	5403.3	2218.9	779.6	854.6	1088.4	1047.5	1098.5	983.5	803.6	777.6	782.6
65°	5403.3	2134.9	733.7	796.6	982.5	953.5	1063.5	948.5	785.6	755.6	750.7
67.5°	5198.4	1890.1	663.7	709.6	865.6	846.6	1014.5	906.6	758.6	735.6	723.6
70°	4664.7	1433.3	575.7	607.7	717.6	734.6	951.5	849.6	713.6	685.7	667.7
71°	4429.8	1248.4	538.7	555.7	660.7	685.7	921.5	825.6	693.7	653.6	621.7
72.5°	3977.0	1051.5	482.8	489.8	564.7	609.7	858.6	779.6	655.7	598.7	562.7
75°	3021.5	767.7	388.8	384.8	417.8	483.7	726.6	694.7	574.7	497.8	476.8
77.5°	1305.3	417.8	290.9	293.9	283.8	366.8	571.7	596.7	492.7	404.8	385.8
80°	395.8	240.9	198.9	202.9	189.9	245.9	402.8	467.8	395.8	314.8	288.8
82.5°	202.9	143.9	135.9	134.0	121.0	138.9	243.9	319.9	282.9	196.9	173.9
85°	87.9	77.0	66.9	65.0	57.0	50.0	87.0	159.9	149.9	109.9	104.9
87.5°	22.0	20.0	13.0	12.0	7.0	1.0	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)