

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: P527974

Luminaire Tested: **GALN-SA3A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527974  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-735-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10759 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

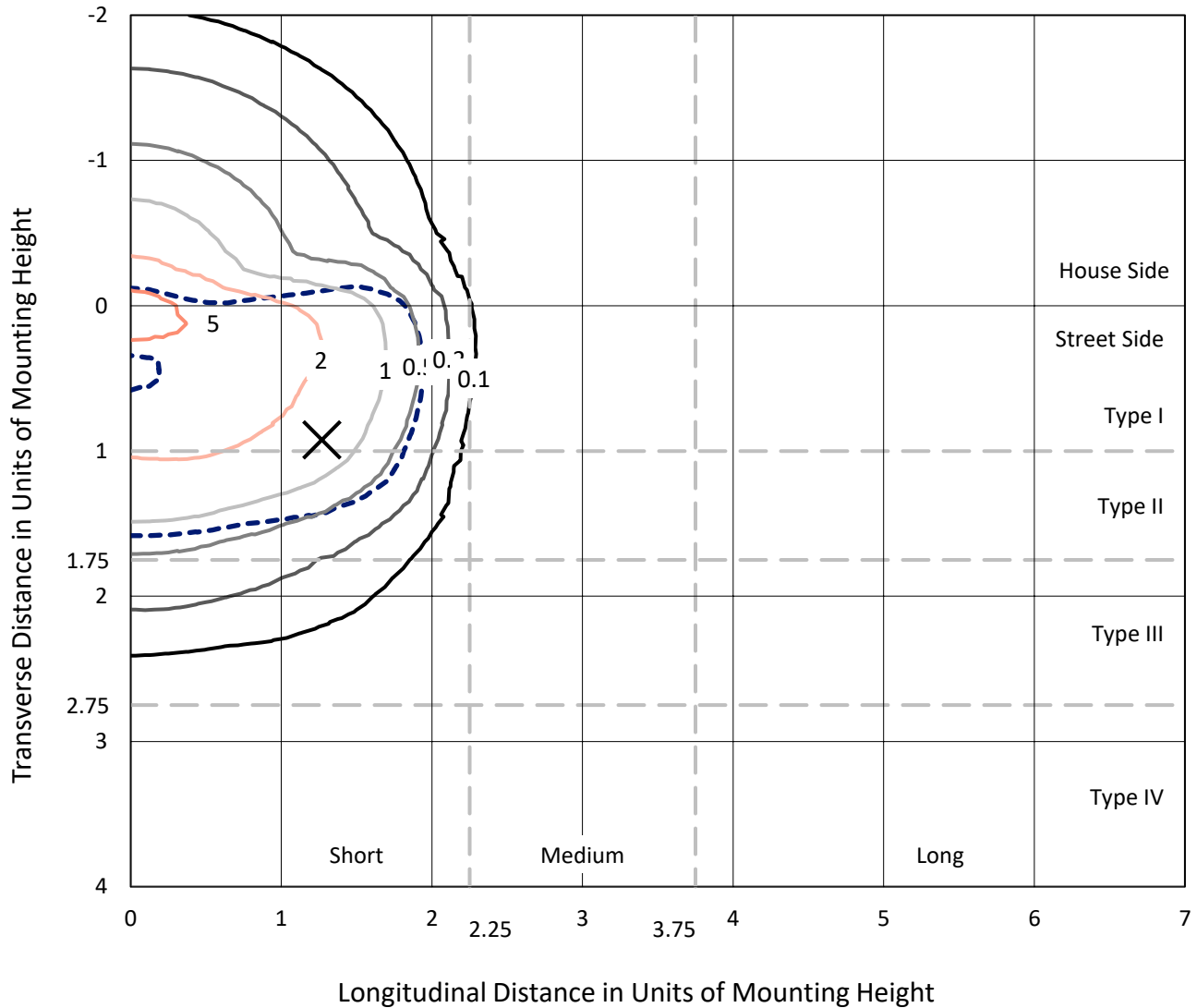
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

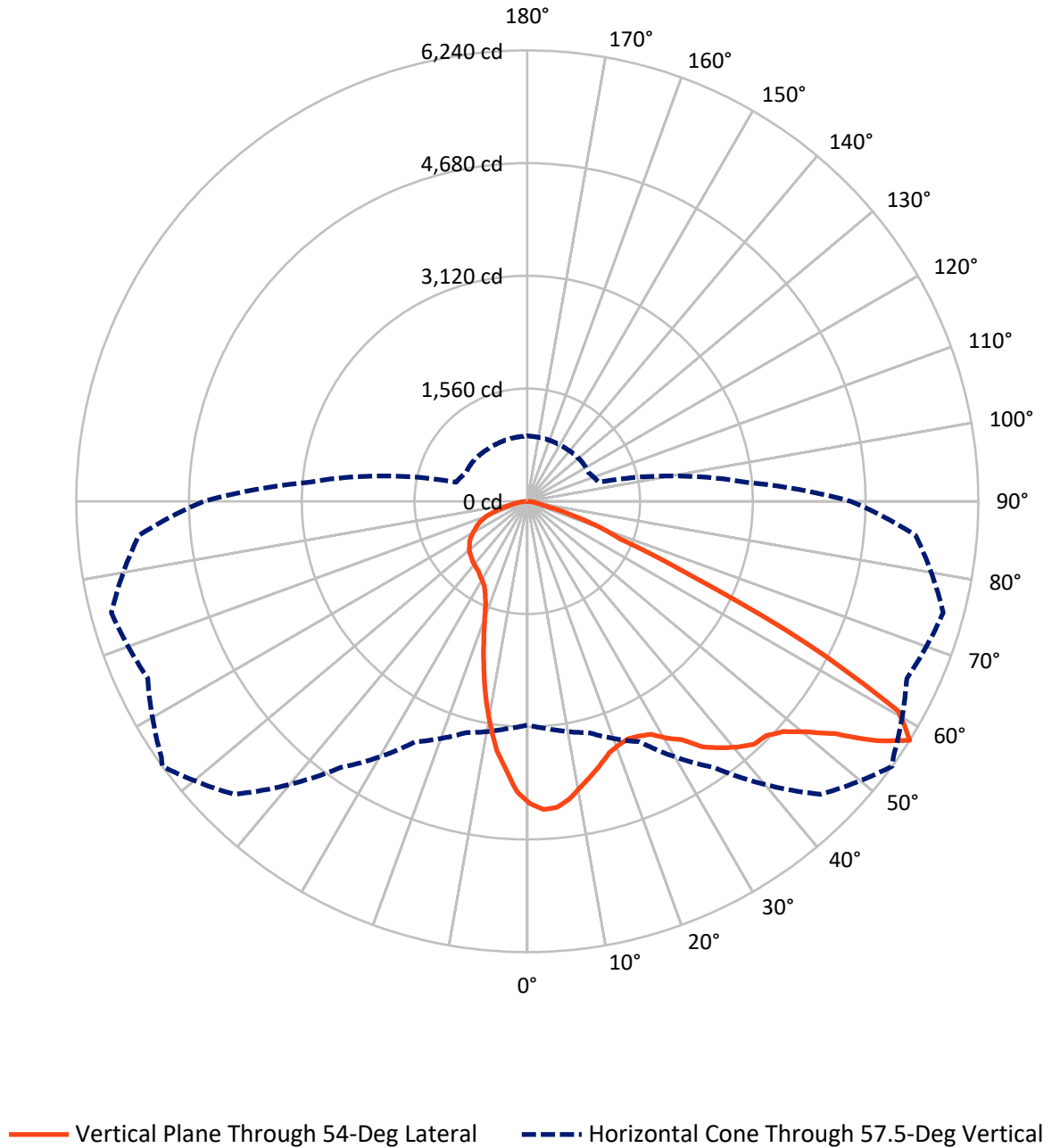
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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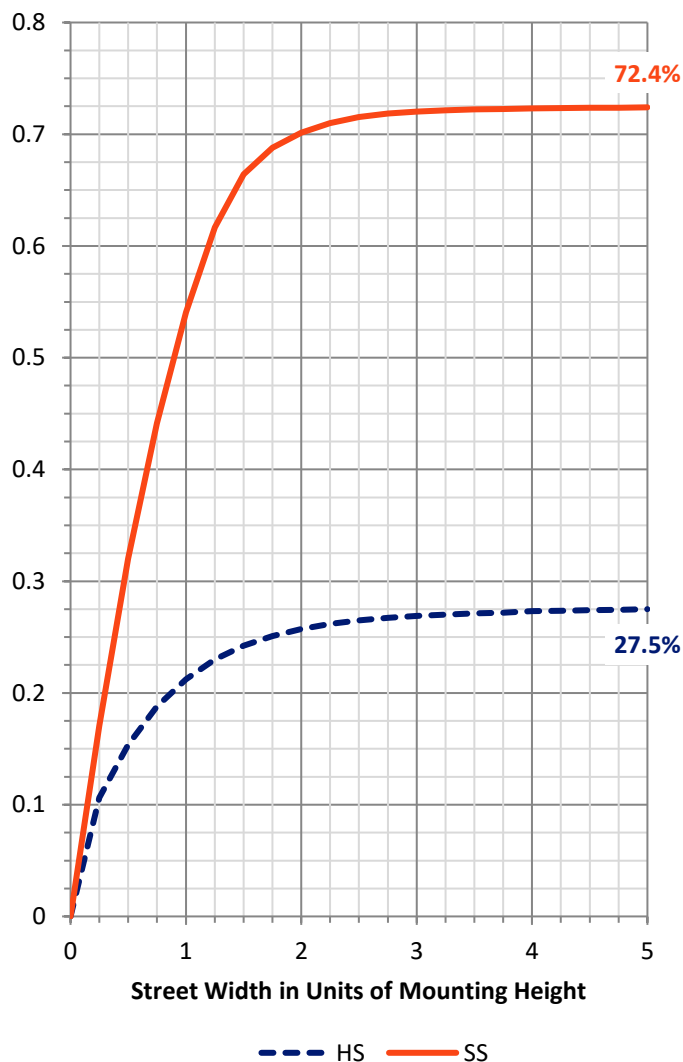
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2976.5	0.0	2976.5
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	7782.5	0.0	7782.5
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	10759.0	0.0	10759.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.6	3.4
10°-20°	835.0	7.8
20°-30°	1173.2	10.9
30°-40°	1640.2	15.2
40°-50°	2220.5	20.6
50°-60°	2704.7	25.1
60°-70°	1408.7	13.1
70°-80°	361.0	3.4
80°-90°	55.1	0.5
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°	10759.0	100.0
0°-180°	10759.0	100.0

**Coefficient of Utilization**



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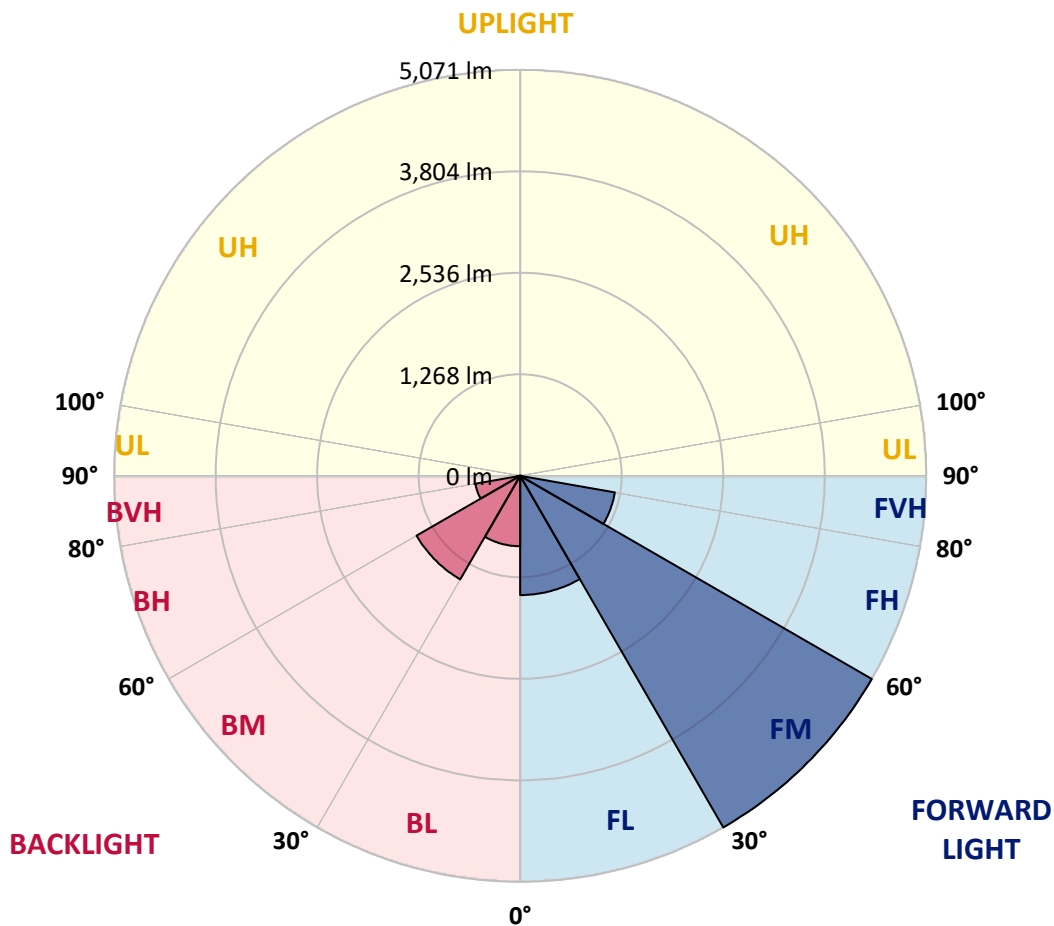
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.2	13.8			
FM (30°-60°)	5071.5	47.1			
FH (60°-80°)	1201.0	11.2			G1/1800
FVH (80°-90°)	20.8	0.2			G1/100
BL (0°-30°)	879.7	8.2	B2/1000		
BM (30°-60°)	1493.9	13.9	B2/2500		
BH (60°-80°)	568.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	34.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9
2.5°	4300.8	4284.2	4287.0	4309.1	4281.5	4270.4	4270.4	4216.5	4220.6	4183.3	4173.6
5°	4201.3	4162.5	4188.8	4222.0	4227.5	4238.6	4256.6	4242.7	4204.0	4163.9	4098.9
7.5°	3941.3	3975.8	3985.5	4009.0	4058.8	4104.5	4161.2	4122.4	4121.1	4080.9	4042.2
10°	3713.1	3692.4	3744.9	3779.5	3862.4	3938.5	4025.6	4021.5	4042.2	3996.6	3930.2
12.5°	3486.3	3469.7	3494.6	3573.4	3689.6	3800.2	3903.9	3865.2	3975.8	3967.6	3825.1
15°	3245.7	3258.1	3294.1	3367.4	3519.5	3652.2	3783.6	3785.0	3883.2	3916.4	3725.5
17.5°	3077.0	3063.1	3108.8	3218.0	3353.5	3512.6	3661.9	3692.4	3843.1	3862.4	3695.1
20°	2951.1	2970.5	3029.9	3085.3	3241.5	3433.7	3602.5	3613.5	3834.8	3887.3	3646.7
22.5°	2920.7	2909.6	2929.0	3018.9	3147.5	3356.3	3570.7	3612.1	3833.4	3879.0	3555.4
25°	2888.9	2924.8	2923.5	3013.3	3107.4	3294.1	3596.9	3642.6	3906.7	3921.9	3567.9
27.5°	2960.8	2956.6	2995.4	3002.3	3118.4	3310.7	3652.2	3686.8	4028.4	4016.0	3577.6
30°	3032.7	3012.0	3035.5	3117.1	3171.0	3406.1	3804.4	3801.6	4186.0	4177.8	3608.0
32.5°	3121.2	3111.5	3126.7	3198.7	3289.9	3533.3	3933.0	4014.6	4346.5	4399.0	3713.1
35°	3137.8	3177.9	3213.9	3310.7	3440.7	3739.4	4175.0	4242.7	4531.8	4696.3	3913.6
37.5°	3242.9	3258.1	3342.5	3514.0	3632.9	4014.6	4328.5	4371.4	4700.5	4887.2	4125.2
40°	3354.9	3372.9	3500.1	3679.9	3843.1	4194.3	4472.3	4486.1	4754.4	5033.8	4263.5
42.5°	3507.0	3523.6	3649.5	3874.9	4093.4	4347.8	4599.5	4614.7	4750.3	5202.5	4483.4
45°	3664.7	3704.8	3852.8	4108.6	4305.0	4527.6	4628.6	4690.8	4789.0	5353.2	4661.8
47.5°	3886.0	3923.3	4045.0	4295.3	4524.9	4685.3	4762.7	4823.6	4881.6	5484.6	4776.5
50°	4121.1	4128.0	4275.9	4502.7	4671.4	4863.7	5013.0	5033.8	5003.3	5636.7	4971.5
52.5°	4293.9	4316.0	4430.8	4652.1	4903.8	5140.3	5344.9	5367.0	5307.6	5693.4	5037.9
55°	4007.7	3995.2	4181.9	4476.5	5060.0	5552.4	5849.7	5866.3	5528.8	5869.0	5255.0
57.5°	3097.7	3157.2	3316.2	3671.6	4495.8	5734.9	6239.7	6180.2	5794.4	5957.5	5393.3
60°	2251.4	2237.5	2344.0	2581.9	3388.1	4942.5	5899.5	5960.3	5577.2	5369.8	4447.4
62.5°	1833.7	1814.4	1822.7	1831.0	2186.4	3280.2	4367.2	4365.8	4295.3	3859.7	2999.5
65°	1465.9	1511.5	1515.7	1577.9	1623.5	1959.6	2530.7	2666.2	2321.9	1904.3	1381.5
67.5°	1104.9	1088.3	1143.7	1364.9	1450.7	1414.7	1381.5	1396.7	992.9	716.3	674.9
70°	651.3	644.4	710.8	951.4	1194.8	1124.3	1041.3	1042.7	681.8	500.6	557.3
72.5°	356.8	355.4	369.2	482.6	679.0	705.3	625.1	644.4	406.6	405.2	435.6
75°	199.1	195.0	190.8	213.0	244.8	258.6	264.1	266.9	279.3	312.5	325.0
77.5°	73.3	70.5	70.5	81.6	103.7	130.0	164.6	167.3	197.8	226.8	239.2
80°	24.9	27.7	37.3	51.2	69.1	92.7	112.0	114.8	139.7	159.0	163.2
82.5°	15.2	16.6	24.9	36.0	49.8	65.0	83.0	84.4	103.7	116.2	121.7
85°	6.9	8.3	13.8	22.1	31.8	42.9	44.3	44.3	42.9	44.3	41.5
87.5°	0.0	0.0	2.8	2.8	2.8	4.1	5.5	4.1	6.9	8.3	8.3
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°	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9	4181.9
2.5°	4144.6	4129.3	4082.3	4040.8	4028.4	3973.1	3891.5	3901.2	3841.7	3869.4	3840.3
5°	4087.9	4036.7	3916.4	3865.2	3731.1	3670.2	3628.7	3525.0	3476.6	3466.9	3425.5
7.5°	3942.7	3910.9	3760.1	3621.8	3479.4	3357.7	3201.4	3094.9	3018.9	2998.1	2937.3
10°	3827.9	3757.3	3548.5	3338.3	3135.0	2923.5	2720.2	2561.1	2483.7	2393.8	2363.4
12.5°	3714.5	3608.0	3325.9	3056.2	2793.5	2526.6	2280.4	2086.8	1918.1	1878.0	1864.2
15°	3644.0	3458.6	3126.7	2801.8	2428.4	2079.9	1833.7	1706.5	1602.8	1559.9	1590.3
17.5°	3551.3	3335.6	2935.9	2503.1	2092.3	1771.5	1565.4	1486.6	1449.3	1453.4	1441.0
20°	3435.1	3219.4	2685.6	2232.0	1792.2	1536.4	1418.9	1389.8	1395.3	1405.0	1400.9
22.5°	3352.2	3078.3	2504.4	1955.4	1548.9	1406.4	1358.0	1337.3	1355.2	1363.5	1356.6
25°	3288.5	2958.0	2284.6	1710.7	1407.8	1333.1	1311.0	1309.6	1337.3	1348.3	1341.4
27.5°	3230.5	2846.0	2066.1	1524.0	1313.8	1276.4	1269.5	1286.1	1304.1	1315.1	1324.8
30°	3195.9	2760.3	1861.4	1367.7	1266.7	1248.8	1236.3	1251.5	1261.2	1272.3	1266.7
32.5°	3229.1	2699.4	1663.6	1279.2	1228.0	1210.0	1226.6	1217.0	1233.5	1243.2	1228.0
35°	3332.8	2645.5	1522.6	1232.2	1183.8	1190.7	1193.4	1189.3	1196.2	1187.9	1205.9
37.5°	3435.1	2626.1	1392.6	1192.1	1163.0	1163.0	1160.3	1152.0	1165.8	1163.0	1171.3
40°	3565.1	2638.6	1282.0	1149.2	1143.7	1140.9	1129.8	1128.4	1122.9	1124.3	1127.1
42.5°	3678.5	2666.2	1218.3	1121.5	1125.7	1131.2	1110.5	1093.9	1100.8	1087.0	1087.0
45°	3798.8	2691.1	1161.6	1102.2	1098.0	1096.6	1080.0	1070.4	1064.8	1066.2	1078.7
47.5°	3988.3	2727.1	1118.8	1075.9	1078.7	1057.9	1053.8	1041.3	1046.9	1055.2	1056.5
50°	4122.4	2803.1	1085.6	1045.5	1055.2	1041.3	1016.4	1010.9	1010.9	1024.7	1022.0
52.5°	4216.5	2909.6	1053.8	1012.3	1016.4	1005.4	997.1	984.6	976.3	995.7	1005.4
55°	4504.1	3086.6	1045.5	984.6	983.2	972.2	957.0	944.5	940.4	943.1	962.5
57.5°	4476.5	3031.3	1019.2	936.2	933.5	918.2	903.0	898.9	897.5	900.3	905.8
60°	3634.3	2238.9	910.0	880.9	876.8	874.0	858.8	842.2	833.9	842.2	835.3
62.5°	2404.9	1499.1	802.1	814.5	817.3	810.4	785.5	768.9	771.7	781.3	766.1
65°	1181.0	880.9	727.4	760.6	763.4	744.0	720.5	701.1	691.5	699.7	692.8
67.5°	674.9	673.5	666.6	701.1	699.7	680.4	643.1	626.5	609.9	612.6	608.5
70°	572.5	583.6	597.4	618.2	616.8	594.6	550.4	537.9	514.4	511.7	504.8
72.5°	450.8	470.2	500.6	515.8	503.4	475.7	446.7	425.9	405.2	392.7	396.9
75°	334.7	362.3	378.9	388.6	369.2	354.0	330.5	305.6	280.7	269.7	265.5
77.5°	243.4	251.7	266.9	273.8	261.4	246.2	232.3	207.4	183.9	168.7	164.6
80°	170.1	175.6	186.7	186.7	186.7	179.8	161.8	136.9	121.7	107.9	105.1
82.5°	118.9	124.5	135.5	130.0	128.6	120.3	109.2	89.9	73.3	63.6	60.8
85°	41.5	45.6	55.3	66.4	70.5	69.1	62.2	49.8	38.7	31.8	29.0
87.5°	9.7	9.7	11.1	9.7	9.7	11.1	9.7	9.7	9.7	6.9	5.5
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)