

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: P522786

Luminaire Tested: **GALN-SA5D-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5D-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35307 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

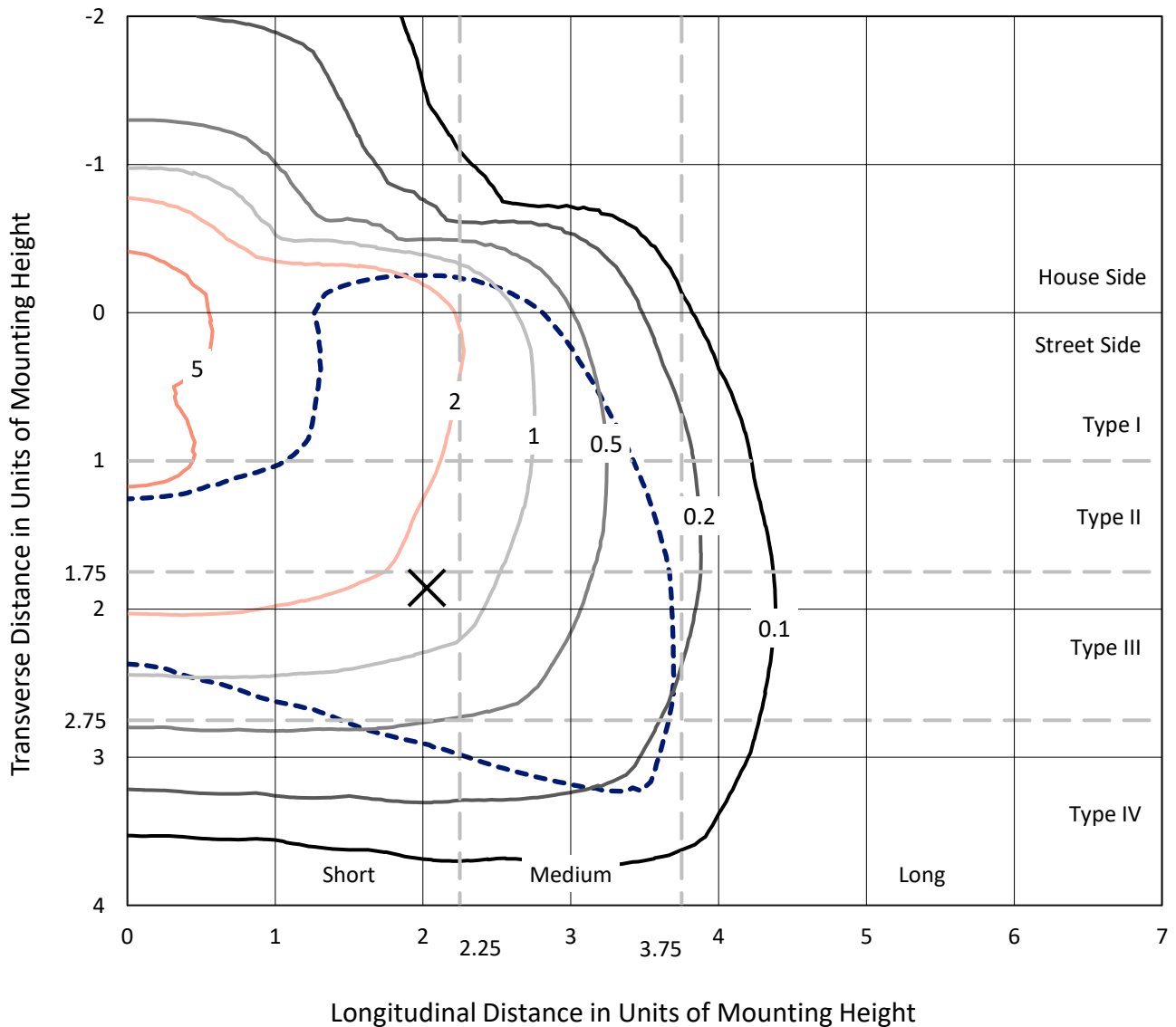
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

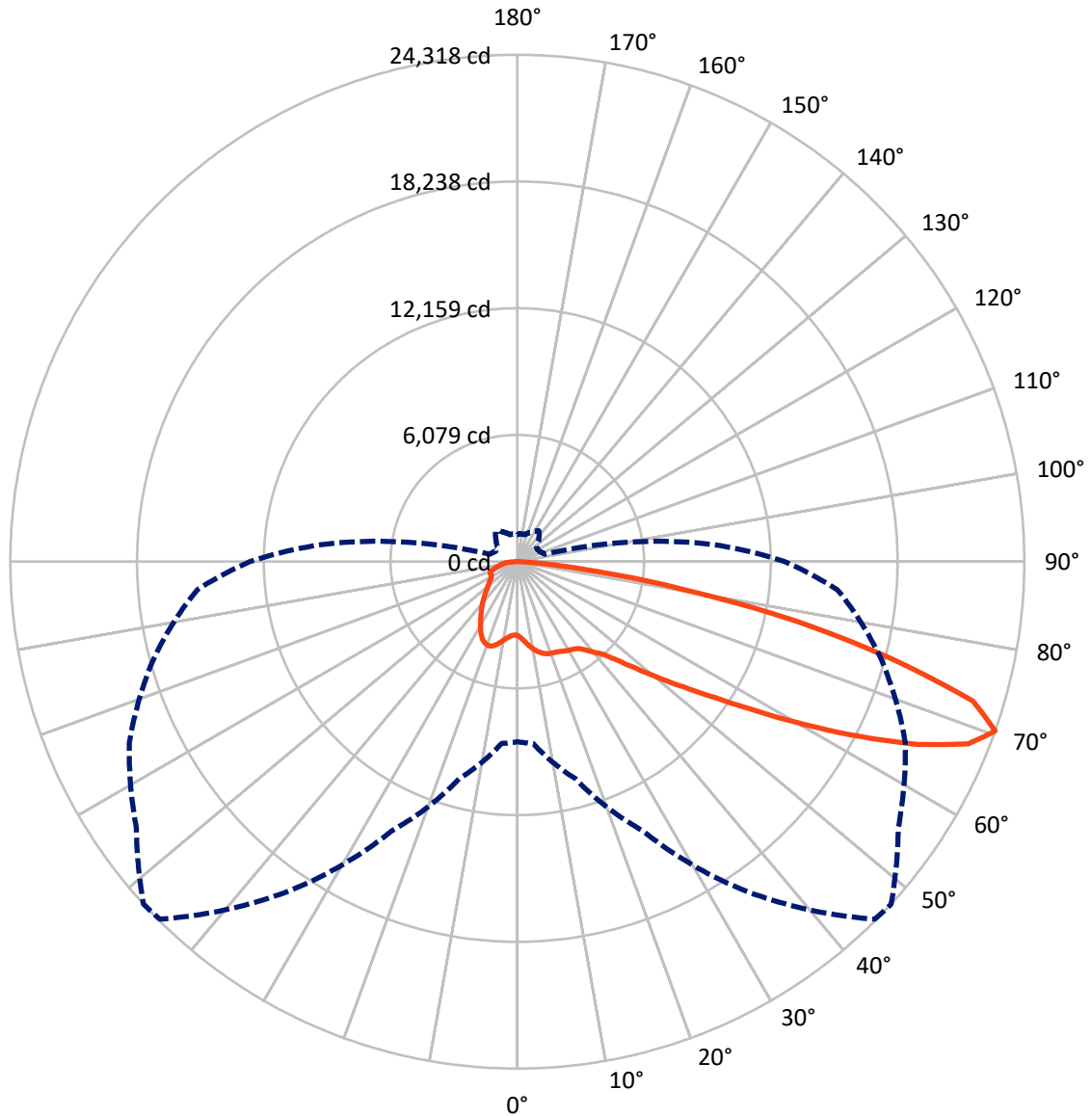
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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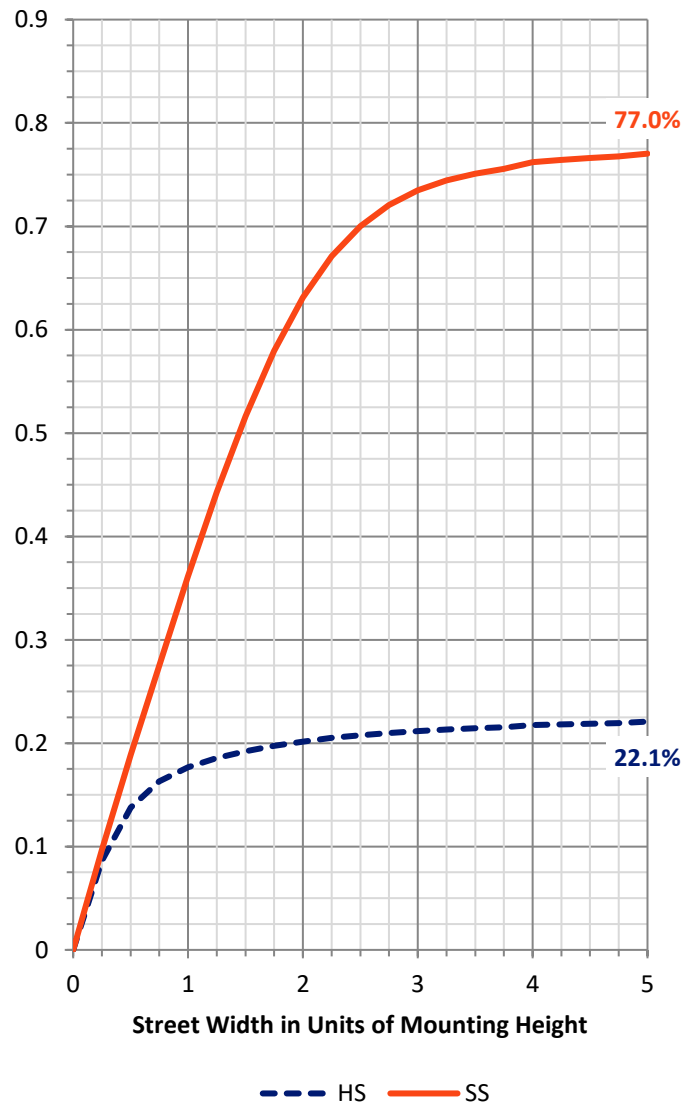
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7994.2	0.0	7994.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	27312.8	0.0	27312.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	35307.0	0.0	35307.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.4	1.0
10°-20°	1221.4	3.5
20°-30°	2031.2	5.8
30°-40°	2878.9	8.2
40°-50°	4249.9	12.0
50°-60°	7361.0	20.8
60°-70°	10397.6	29.4
70°-80°	5977.1	16.9
80°-90°	824.7	2.3
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°	35307.0	100.0
0°-180°	35307.0	100.0



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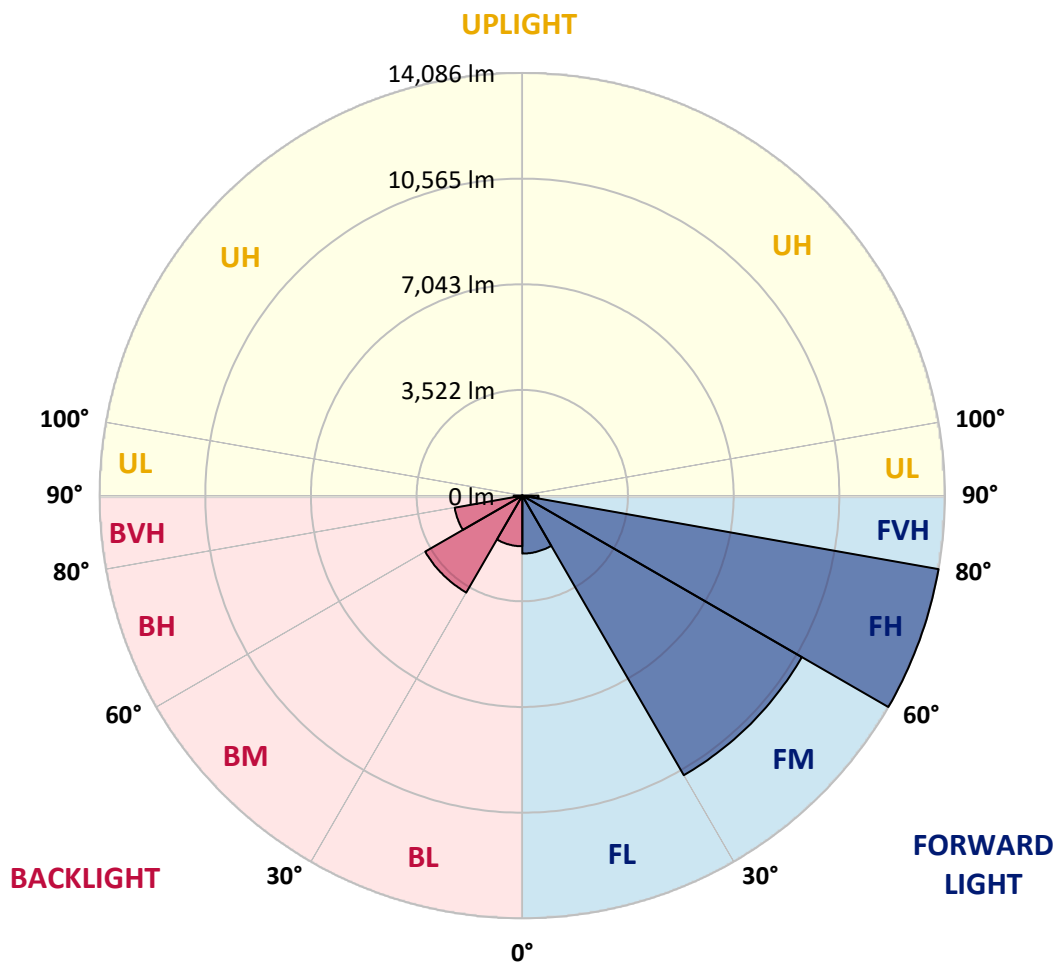
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1930.7	5.5			
FM	(30°-60°)	10757.4	30.5			
FH	(60°-80°)	14086.0	39.9			G5
FVH	(80°-90°)	538.7	1.5			G4/750
BL	(0°-30°)	1687.2	4.8	B3/2500		
BM	(30°-60°)	3732.4	10.6	B3/5000		
BH	(60°-80°)	2288.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	286.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4
2.5°	3773.0	3759.8	3757.9	3729.6	3714.4	3686.1	3674.8	3648.3	3616.2	3584.1	3553.8
5°	4069.6	4069.6	4056.4	4016.7	3954.4	3890.1	3861.8	3810.8	3720.1	3646.4	3584.1
7.5°	4373.8	4377.6	4351.1	4292.6	4203.8	4099.9	4073.4	3997.8	3869.4	3761.7	3669.1
10°	4636.4	4636.4	4600.5	4521.2	4409.7	4296.4	4269.9	4184.9	4041.3	3907.2	3786.2
12.5°	4836.7	4836.7	4789.5	4685.6	4564.6	4462.6	4432.4	4351.1	4217.0	4067.7	3914.7
15°	4967.1	4957.6	4904.7	4787.6	4670.4	4581.6	4560.9	4492.8	4370.0	4218.9	4047.0
17.5°	4972.7	4969.0	4917.9	4819.7	4717.7	4657.2	4644.0	4598.6	4502.3	4358.7	4177.3
20°	4863.2	4870.7	4836.7	4766.8	4717.7	4691.2	4685.6	4670.4	4602.4	4468.3	4286.9
22.5°	4746.0	4759.2	4727.1	4689.3	4685.6	4712.0	4715.8	4719.6	4676.1	4545.7	4379.5
25°	4717.7	4727.1	4695.0	4661.0	4681.8	4751.7	4766.8	4781.9	4747.9	4638.3	4489.1
27.5°	4861.3	4853.7	4791.4	4717.7	4730.9	4825.4	4846.2	4863.2	4846.2	4751.7	4625.1
30°	5267.5	5242.9	5118.2	4902.8	4834.8	4900.9	4921.7	4969.0	4969.0	4899.1	4772.5
32.5°	5947.6	5900.4	5671.8	5248.6	5012.4	4972.7	4993.5	5071.0	5110.7	5055.9	4917.9
35°	6773.3	6724.2	6397.3	5828.6	5337.4	5116.3	5110.7	5197.6	5303.4	5180.6	5001.1
37.5°	7602.7	7551.7	7158.7	6520.1	5811.6	5418.6	5384.6	5414.8	5460.2	5235.4	5116.3
40°	8432.1	8371.7	8027.8	7292.8	6391.6	5819.2	5730.4	5594.3	5575.4	5414.8	5339.3
42.5°	9254.0	9199.2	9025.4	8160.1	7086.9	6210.3	6074.2	5839.9	5911.7	5815.4	5749.3
45°	10083.4	10087.2	9902.0	9133.1	7925.8	6932.0	6748.7	6382.2	6552.2	6516.3	6554.1
47.5°	10818.3	10808.9	10742.8	10077.7	8966.8	7861.5	7625.4	7200.3	7491.2	7623.5	7912.5
50°	11530.6	11525.0	11528.7	11149.0	10176.0	8966.8	8706.1	8260.2	8915.8	9374.9	9892.6
52.5°	12550.9	12583.0	12354.4	12254.2	11645.9	10272.3	9985.2	9524.2	10599.2	11322.8	12333.6
55°	13574.9	13548.4	13369.0	13472.9	13183.8	11817.8	11517.4	11150.9	12473.4	13265.0	14784.1
57.5°	14177.6	14187.0	14370.3	14878.5	15082.6	13744.9	13472.9	13189.5	14580.0	15141.2	16964.4
60°	14719.8	14763.3	15290.4	16250.2	16803.8	16112.3	15870.4	15594.6	16512.8	16735.8	18857.5
62.5°	14889.9	15024.0	15944.1	17380.0	18481.5	18783.8	18483.4	17875.0	18353.0	18266.1	20140.3
65°	14041.6	14224.8	15874.2	17803.2	19979.7	21319.3	21128.5	19998.6	19921.2	19397.8	20350.1
67.5°	11808.4	11991.6	14109.6	16915.2	20599.5	23514.7	23323.9	21547.9	20873.4	19503.6	18763.0
70°	8639.9	8755.2	10780.6	14241.8	19354.4	24251.5	24317.7	22303.6	20533.3	18065.8	15405.7
72.5°	4978.4	5233.5	6652.4	10019.2	15811.9	22388.7	22847.8	20731.7	18383.3	15071.2	10771.1
75°	2140.6	2146.3	3075.8	5526.3	10708.8	17995.9	18439.9	17185.4	14436.4	10421.6	5751.1
77.5°	1018.4	1037.2	1352.8	2467.5	5894.7	12433.7	13631.6	12140.9	9233.2	5006.7	2172.7
80°	661.3	674.5	827.5	1224.3	2890.7	7209.7	8044.8	7003.8	4073.4	1789.2	937.1
82.5°	400.5	404.3	553.6	748.2	1590.8	3264.8	3848.6	3039.9	1738.2	1071.3	551.7
85°	243.7	245.6	336.3	462.9	965.5	1127.9	1158.2	1148.7	1020.2	700.9	294.7
87.5°	117.1	120.9	173.8	219.2	379.8	349.5	330.6	383.5	481.8	377.9	126.6
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°	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4
2.5°	3540.6	3535.0	3521.7	3516.1	3512.3	3514.2	3512.3	3512.3	3514.2	3514.2	3514.2
5°	3557.6	3548.2	3527.4	3527.4	3538.7	3565.2	3589.7	3608.6	3629.4	3627.5	3627.5
7.5°	3631.3	3614.3	3589.7	3597.3	3625.6	3667.2	3710.7	3752.2	3793.8	3797.6	3795.7
10°	3739.0	3722.0	3695.5	3705.0	3750.3	3812.7	3867.5	3927.9	3973.3	3986.5	3982.7
12.5°	3861.8	3827.8	3805.1	3831.6	3903.4	3986.5	4039.4	4084.7	4116.9	4135.8	4128.2
15°	3986.5	3954.4	3927.9	3982.7	4069.6	4147.1	4173.5	4181.1	4186.8	4205.7	4201.9
17.5°	4107.4	4064.0	4054.5	4126.3	4209.4	4243.5	4228.3	4196.2	4171.7	4186.8	4184.9
20°	4215.1	4181.1	4177.3	4249.1	4281.2	4249.1	4184.9	4128.2	4084.7	4088.5	4086.6
22.5°	4317.1	4290.7	4294.5	4324.7	4273.7	4164.1	4058.3	3980.8	3933.6	3943.0	3948.7
25°	4430.5	4404.0	4413.5	4364.4	4196.2	4005.4	3852.4	3786.2	3767.3	3786.2	3799.5
27.5°	4577.9	4560.9	4555.2	4366.3	4058.3	3771.1	3597.3	3572.7	3589.7	3631.3	3652.1
30°	4736.6	4736.6	4706.3	4334.1	3869.4	3489.6	3338.5	3342.2	3400.8	3459.4	3480.2
32.5°	4889.6	4921.7	4827.3	4247.2	3625.6	3215.7	3100.4	3104.2	3155.2	3227.0	3245.9
35°	5016.2	5108.8	4931.2	4088.5	3338.5	2985.2	2898.2	2847.2	2849.1	2903.9	2919.0
37.5°	5190.0	5361.9	4991.6	3852.4	3032.4	2788.7	2690.4	2601.6	2543.0	2520.4	2520.4
40°	5492.3	5745.5	5006.7	3502.8	2743.3	2601.6	2461.8	2356.0	2242.6	2140.6	2121.7
42.5°	6004.3	6323.6	4976.5	3100.4	2482.6	2395.7	2259.6	2129.3	1972.5	1828.9	1817.5
45°	6911.2	7075.6	4895.3	2682.9	2250.2	2197.3	2065.0	1923.3	1757.1	1628.6	1619.2
47.5°	8364.1	8131.7	4787.6	2312.5	2038.6	2023.5	1921.5	1757.1	1590.8	1502.0	1492.6
50°	10485.8	9794.3	4772.5	2044.3	1868.6	1876.1	1793.0	1641.8	1496.4	1422.7	1411.3
52.5°	13040.2	11802.7	4872.6	1855.3	1719.3	1747.6	1706.1	1566.3	1437.8	1375.4	1364.1
55°	15519.0	13608.9	4933.1	1708.0	1579.5	1632.4	1638.1	1520.9	1403.8	1341.4	1333.9
57.5°	17531.2	14969.2	4664.8	1573.8	1458.6	1539.8	1581.4	1494.5	1386.8	1339.5	1332.0
60°	18931.2	15611.6	3901.5	1454.8	1369.8	1466.1	1560.6	1496.4	1428.3	1434.0	1437.8
62.5°	19377.0	15326.3	2926.6	1366.0	1309.3	1441.6	1594.6	1573.8	1503.9	1547.4	1554.9
65°	18638.3	14147.4	2121.7	1296.1	1256.4	1458.6	1696.6	1630.5	1477.5	1509.6	1509.6
67.5°	16165.2	12188.1	1651.3	1231.8	1196.0	1490.7	1798.6	1624.8	1415.1	1452.9	1418.9
70°	12822.9	9427.8	1375.4	1160.1	1131.7	1443.5	1808.1	1566.3	1341.4	1349.0	1284.7
72.5°	8509.6	6198.9	1182.7	1092.0	1033.5	1298.0	1730.6	1490.7	1269.6	1226.2	1161.9
75°	4169.8	3091.0	1031.6	1007.0	905.0	1129.8	1624.8	1418.9	1192.2	1124.2	1088.3
77.5°	1615.4	1315.0	880.4	899.3	787.9	995.7	1485.0	1316.9	1090.1	997.6	969.2
80°	784.1	746.3	721.7	750.1	648.0	848.3	1356.5	1228.1	995.7	893.7	852.1
82.5°	487.4	461.0	553.6	583.8	498.8	774.6	1286.6	1152.5	876.7	740.6	706.6
85°	247.5	264.5	370.3	398.7	357.1	615.9	1059.9	865.3	632.9	525.2	529.0
87.5°	94.5	126.6	194.6	209.7	190.8	325.0	583.8	504.5	406.2	275.8	255.1
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)