

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: P459265

Luminaire Tested: **GALN-SA7B-735-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26708 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

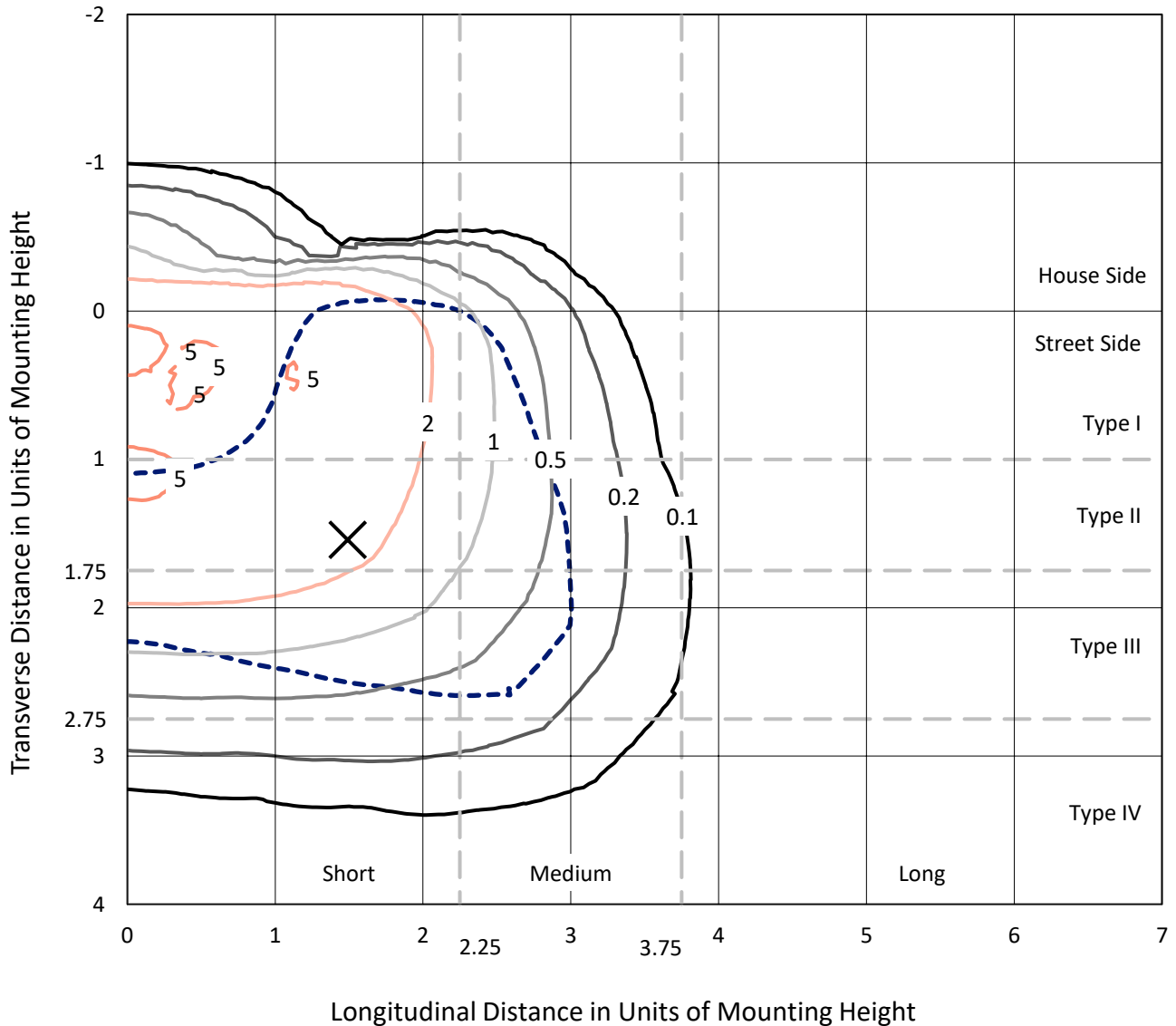
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

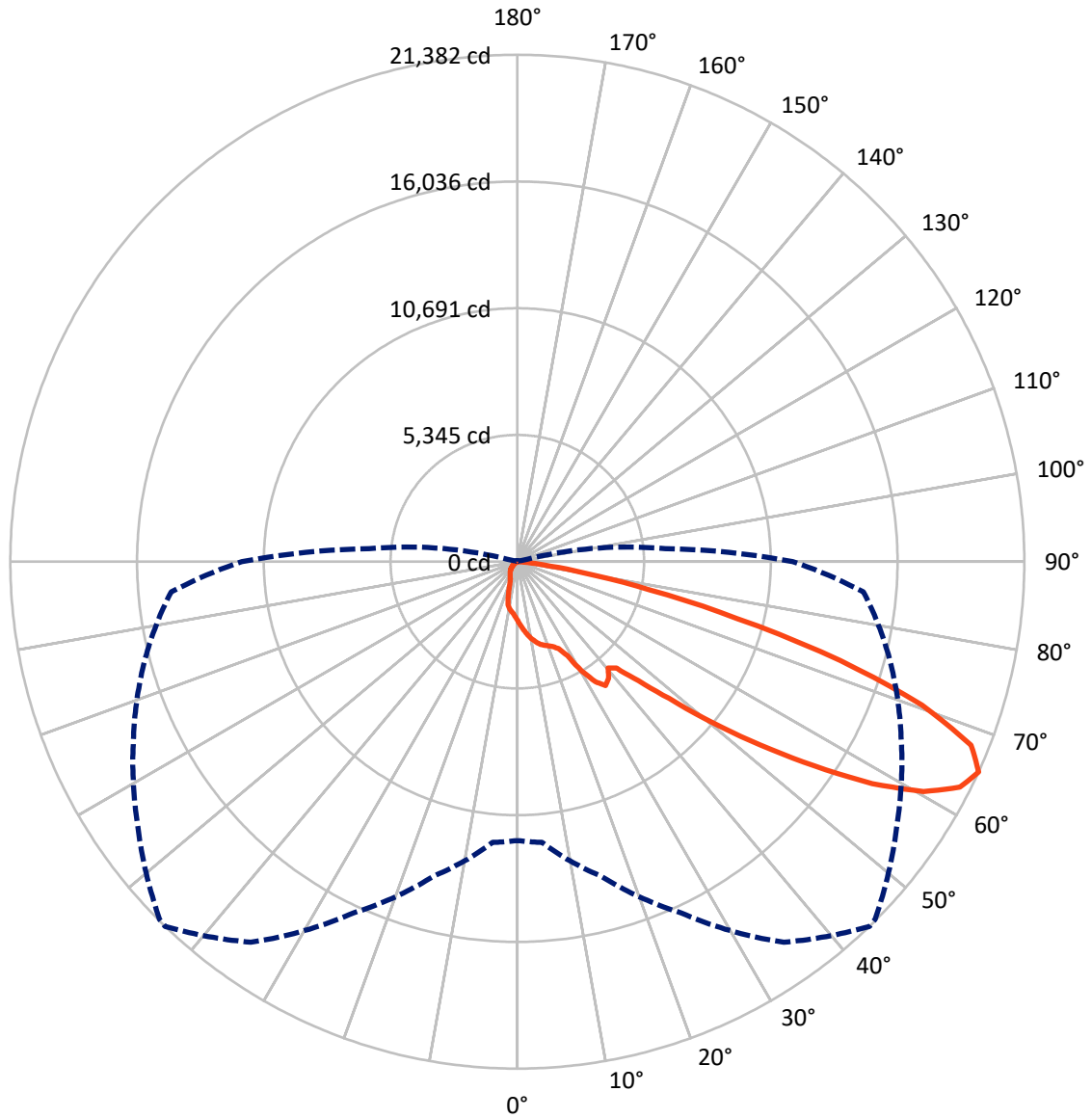
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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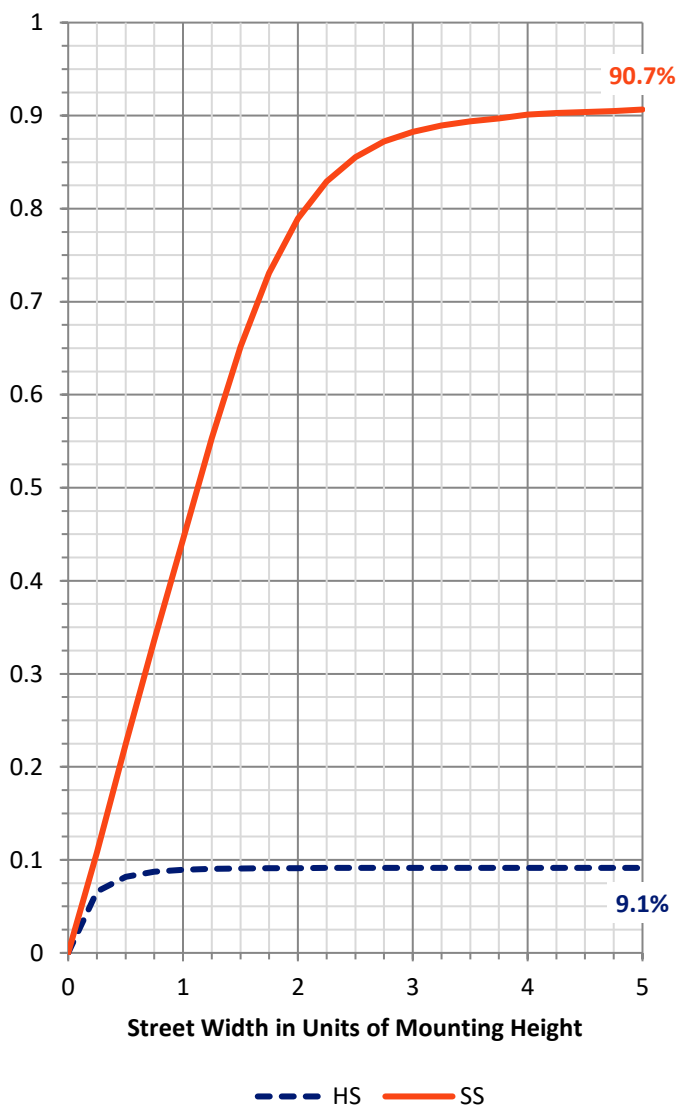
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2460.7	0.0	2460.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	24247.3	0.0	24247.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	26708.0	0.0	26708.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.2	0.9
10°-20°	744.1	2.8
20°-30°	1261.7	4.7
30°-40°	2097.8	7.9
40°-50°	3662.8	13.7
50°-60°	7155.8	26.8
60°-70°	8302.3	31.1
70°-80°	3023.3	11.3
80°-90°	213.0	0.8
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°	26708.0	100.0
0°-180°	26708.0	100.0

**Coefficient of Utilization**



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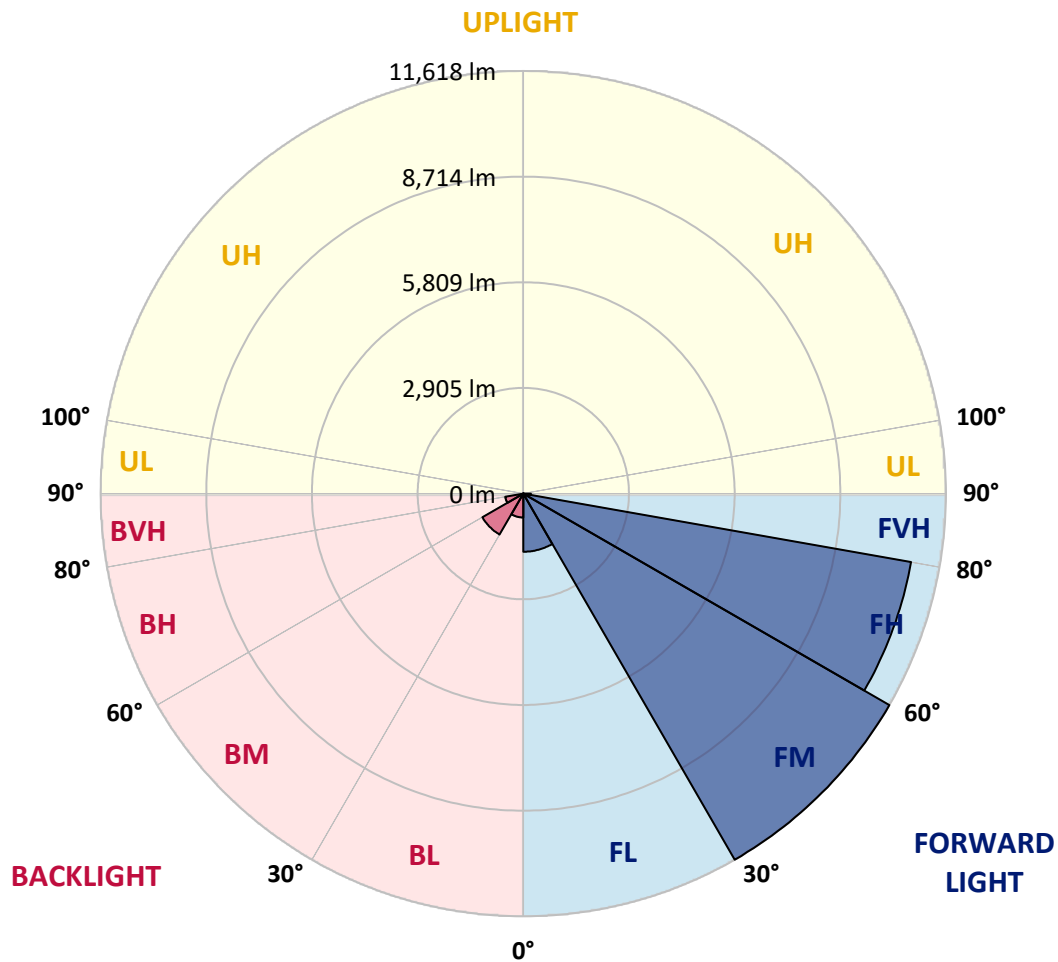
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.4	6.0			
FM (30°-60°)	11618.0	43.5			
FH (60°-80°)	10821.7	40.5			G4/12000
FVH (80°-90°)	210.1	0.8			G2/225
BL (0°-30°)	655.6	2.5	B2/1000		
BM (30°-60°)	1298.3	4.9	B2/2500		
BH (60°-80°)	503.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	2.9	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°	44°	45°	55°	65°	75°	85°
0°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2798.0	2785.7	2779.6	2746.9	2722.5	2691.8	2691.8	2653.1	2608.2	2559.2	2514.3
5°	3110.2	3089.8	3063.3	3034.7	2977.6	2895.9	2895.9	2814.3	2720.4	2636.7	2544.9
7.5°	3410.2	3391.8	3346.9	3291.8	3198.0	3112.2	3106.1	2987.8	2875.5	2749.0	2618.4
10°	3673.5	3659.2	3620.4	3514.3	3416.3	3304.1	3302.0	3169.4	3038.8	2883.7	2722.5
12.5°	3857.1	3859.2	3808.2	3706.1	3579.6	3473.5	3465.3	3334.7	3198.0	3030.6	2832.7
15°	3987.8	3987.8	3934.7	3820.4	3706.1	3612.3	3604.1	3489.8	3349.0	3167.4	2953.1
17.5°	4024.5	4036.7	3979.6	3877.6	3785.7	3704.1	3702.0	3606.1	3493.9	3318.4	3075.5
20°	4010.2	4022.5	3977.6	3898.0	3834.7	3787.8	3781.6	3742.9	3638.8	3473.5	3206.1
22.5°	3979.6	3991.8	3959.2	3912.3	3881.6	3895.9	3885.7	3918.4	3863.3	3663.3	3361.2
25°	3985.7	3998.0	3973.5	3946.9	3973.5	4061.2	4087.8	4228.6	4179.6	3904.1	3528.6
27.5°	4177.6	4202.0	4167.4	4179.6	4273.5	4477.6	4528.6	4771.4	4555.1	4210.2	3789.8
30°	4604.1	4587.8	4522.5	4581.6	4908.2	5340.8	5326.5	5287.8	4949.0	4563.3	4100.0
32.5°	4991.8	4977.6	4973.5	5228.6	5820.4	6030.6	6020.4	5644.9	5302.0	4967.4	4406.1
35°	5149.0	5093.9	5081.6	5700.0	6689.8	6412.3	6349.0	5791.8	5730.6	5408.2	4718.4
37.5°	5622.5	5583.7	5393.9	5777.6	6342.9	6251.0	6202.1	6044.9	6187.8	5798.0	5071.4
40°	6598.0	6489.8	6318.4	5942.9	5851.0	5889.8	5938.8	6369.4	6728.6	6330.6	5542.9
42.5°	7810.2	7785.7	7467.4	6767.4	6079.6	6132.7	6195.9	7047.0	7506.1	7132.7	6312.3
45°	9265.3	9300.0	8840.8	8014.3	7112.3	7157.2	7249.0	8047.0	8559.2	8379.6	7522.5
47.5°	10587.8	10561.2	10406.1	9547.0	8714.3	8614.3	8763.3	9330.6	10016.3	10044.9	9024.5
50°	11918.4	12059.2	11828.6	11491.9	10873.5	10663.3	10608.2	10885.7	11930.6	11793.9	10828.6
52.5°	13830.6	13904.1	13471.5	13385.7	13526.6	12844.9	12789.8	12857.2	13791.9	13322.5	12179.6
55°	15032.7	14989.8	14828.6	15498.0	16055.1	15204.1	15134.7	14863.3	15336.8	14402.1	13479.6
57.5°	15412.3	15473.5	15849.0	17059.2	18377.6	17655.1	17528.6	16757.2	16451.0	15408.2	14675.5
60°	15242.9	15355.1	16165.3	17965.3	19793.9	19685.7	19577.6	18281.7	17251.0	16249.0	15514.3
62.5°	14036.8	14193.9	15489.8	17804.1	20273.5	20949.0	20814.3	19232.7	17783.7	16657.2	15661.2
65°	11763.3	11879.6	13740.8	16340.8	19591.9	21381.7	21332.7	19530.6	17867.4	16283.7	14655.1
67.5°	8385.7	8781.6	10506.1	13771.5	17575.5	20642.9	20726.6	19173.5	17081.7	14669.4	12136.8
70°	5271.4	5540.8	6777.6	9859.2	14089.8	18110.2	18385.7	17538.8	14824.5	11434.7	8124.5
72.5°	2514.3	2714.3	3595.9	6240.8	9944.9	14249.0	14467.4	14398.0	11463.3	7204.1	4191.8
75°	1120.4	1195.9	1716.3	3185.7	6420.4	9577.6	10142.9	10236.8	7163.3	3524.5	1630.6
77.5°	571.4	573.5	804.1	1542.9	3206.1	5714.3	5826.5	6155.1	3883.7	1553.1	567.3
80°	304.1	324.5	426.5	728.6	1663.3	2814.3	2800.0	3077.6	1722.5	761.2	189.8
82.5°	136.7	151.0	240.8	381.6	812.2	1067.3	1151.0	1259.2	738.8	485.7	83.7
85°	40.8	49.0	118.4	191.8	293.9	308.2	344.9	444.9	418.4	344.9	42.9
87.5°	6.1	6.1	49.0	53.1	42.9	55.1	57.1	63.3	134.7	126.5	22.4
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°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2489.8	2475.5	2424.5	2381.6	2344.9	2322.5	2295.9	2279.6	2271.4	2265.3	2267.4
5°	2500.0	2465.3	2377.6	2308.2	2255.1	2198.0	2159.2	2136.7	2126.5	2110.2	2110.2
7.5°	2557.1	2502.0	2379.6	2273.5	2181.6	2104.1	2030.6	2004.1	1985.7	1981.6	1977.6
10°	2638.8	2569.4	2402.0	2255.1	2124.5	2018.4	1914.3	1822.5	1751.0	1708.2	1702.0
12.5°	2740.8	2640.8	2436.7	2242.9	2075.5	1887.8	1612.2	1426.5	1302.0	1263.3	1269.4
15°	2834.7	2726.5	2471.4	2232.7	1985.7	1565.3	1253.1	1040.8	977.6	971.4	973.5
17.5°	2946.9	2818.4	2512.2	2218.4	1738.8	1195.9	930.6	873.5	885.7	906.1	904.1
20°	3063.3	2916.3	2561.2	2132.7	1387.8	900.0	822.5	828.6	846.9	865.3	869.4
22.5°	3187.8	3028.6	2618.4	1926.5	1059.2	783.7	779.6	787.8	806.1	826.5	830.6
25°	3359.2	3169.4	2661.2	1657.1	802.0	724.5	732.7	746.9	763.3	785.7	789.8
27.5°	3579.6	3359.2	2683.7	1306.1	693.9	671.4	673.5	693.9	714.3	734.7	734.7
30°	3865.3	3585.7	2638.8	987.8	640.8	620.4	612.2	624.5	651.0	671.4	673.5
32.5°	4120.4	3800.0	2520.4	755.1	602.0	573.5	553.1	555.1	565.3	577.6	579.6
35°	4375.5	4008.2	2318.4	634.7	561.2	528.6	498.0	481.6	473.5	467.3	473.5
37.5°	4702.0	4267.4	2049.0	577.6	526.5	485.7	442.9	408.2	379.6	361.2	365.3
40°	5122.5	4626.5	1730.6	540.8	493.9	444.9	387.8	342.9	293.9	277.6	269.4
42.5°	5816.3	5171.4	1395.9	510.2	461.2	402.0	330.6	269.4	224.5	208.2	212.2
45°	6912.3	5859.2	1075.5	477.6	428.6	355.1	277.6	212.2	175.5	167.3	171.4
47.5°	8365.3	6749.0	828.6	440.8	387.8	304.1	218.4	167.3	144.9	142.9	140.8
50°	9732.7	7577.6	691.8	400.0	338.8	253.1	179.6	140.8	126.5	124.5	124.5
52.5°	10969.4	8171.4	563.3	353.1	285.7	208.2	151.0	124.5	112.2	106.1	106.1
55°	12069.4	8559.2	457.1	295.9	224.5	165.3	130.6	112.2	98.0	89.8	87.8
57.5°	12900.0	8606.1	342.9	236.7	167.3	128.6	112.2	98.0	81.6	71.4	67.3
60°	13255.1	8200.0	253.1	179.6	124.5	102.0	89.8	79.6	61.2	51.0	49.0
62.5°	12898.0	7410.2	187.8	136.7	95.9	75.5	63.3	59.2	42.9	30.6	28.6
65°	11618.4	6269.4	149.0	104.1	71.4	55.1	40.8	38.8	26.5	14.3	12.2
67.5°	9308.2	4910.2	118.4	77.6	51.0	36.7	26.5	24.5	14.3	4.1	4.1
70°	6053.1	3138.8	95.9	57.1	32.7	24.5	16.3	12.2	8.2	2.0	0.0
72.5°	2993.9	1467.3	77.6	44.9	22.4	12.2	6.1	4.1	6.1	0.0	0.0
75°	1161.2	522.4	57.1	30.6	12.2	6.1	4.1	0.0	2.0	0.0	0.0
77.5°	385.7	173.5	34.7	16.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
80°	142.9	67.3	18.4	10.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.1	26.5	12.2	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.6	16.3	8.2	6.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	12.2	8.2	6.1	4.1	2.0	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)