

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: P532868

Luminaire Tested: **GALN-SA8B-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35100 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

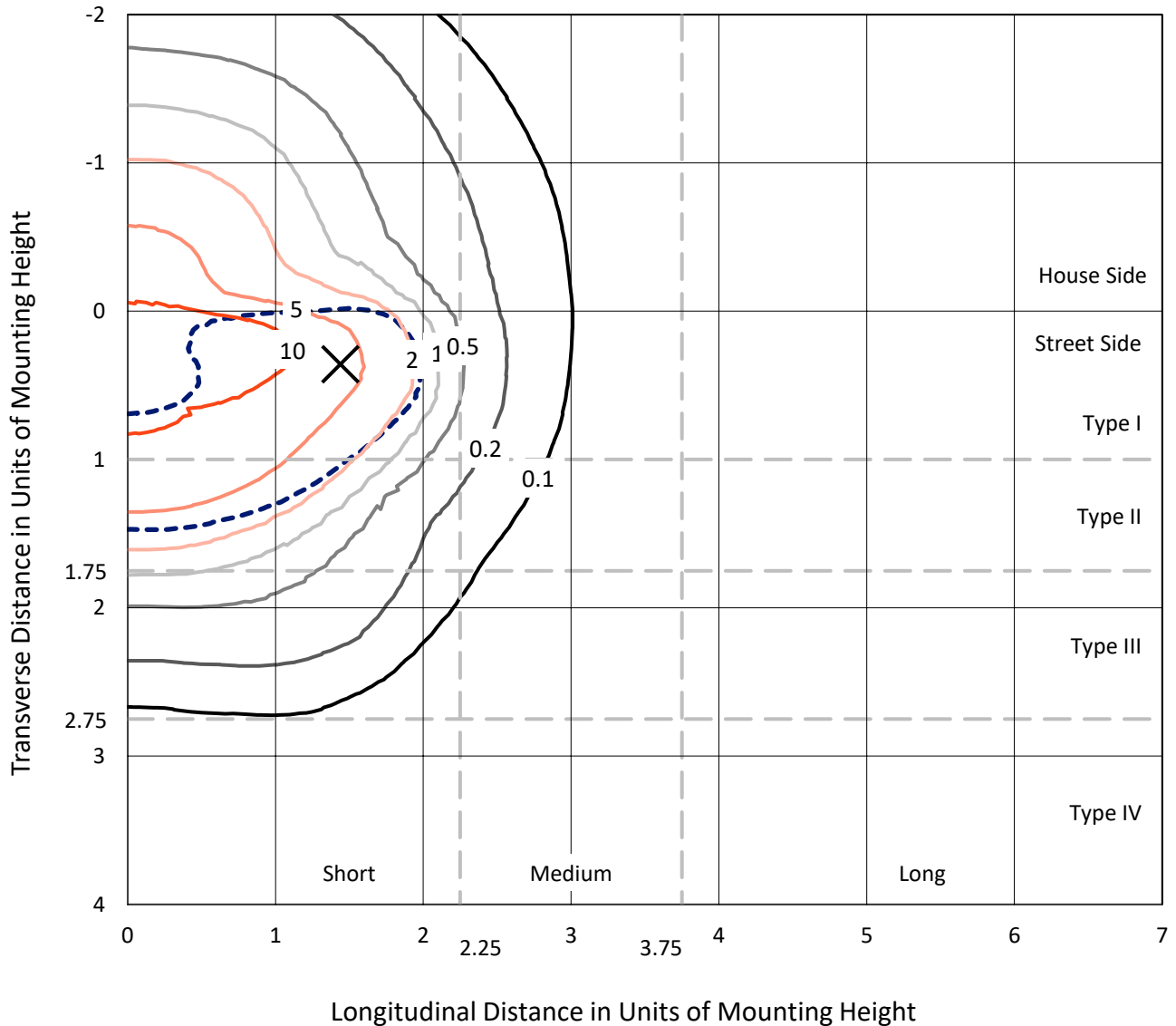
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

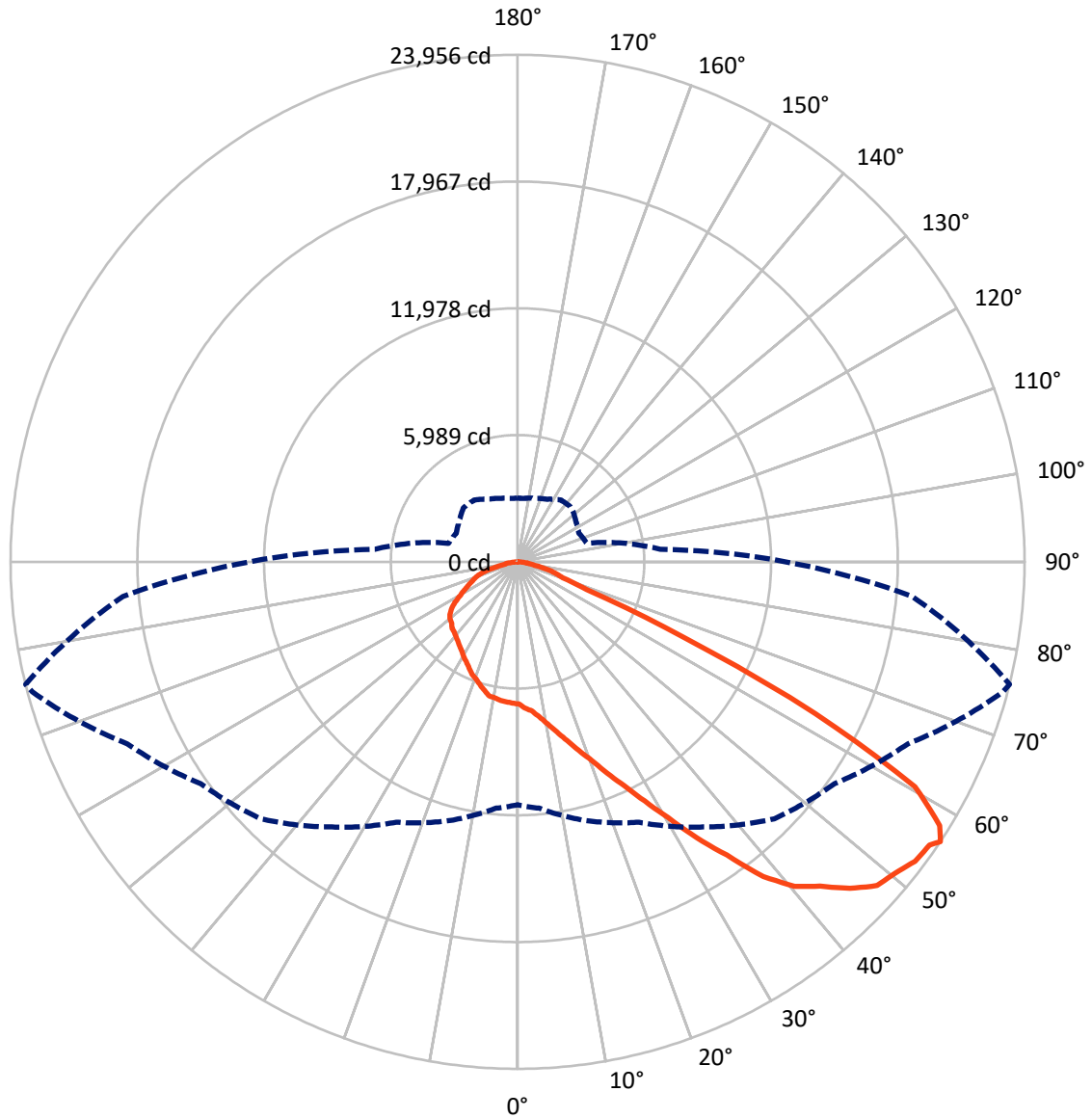
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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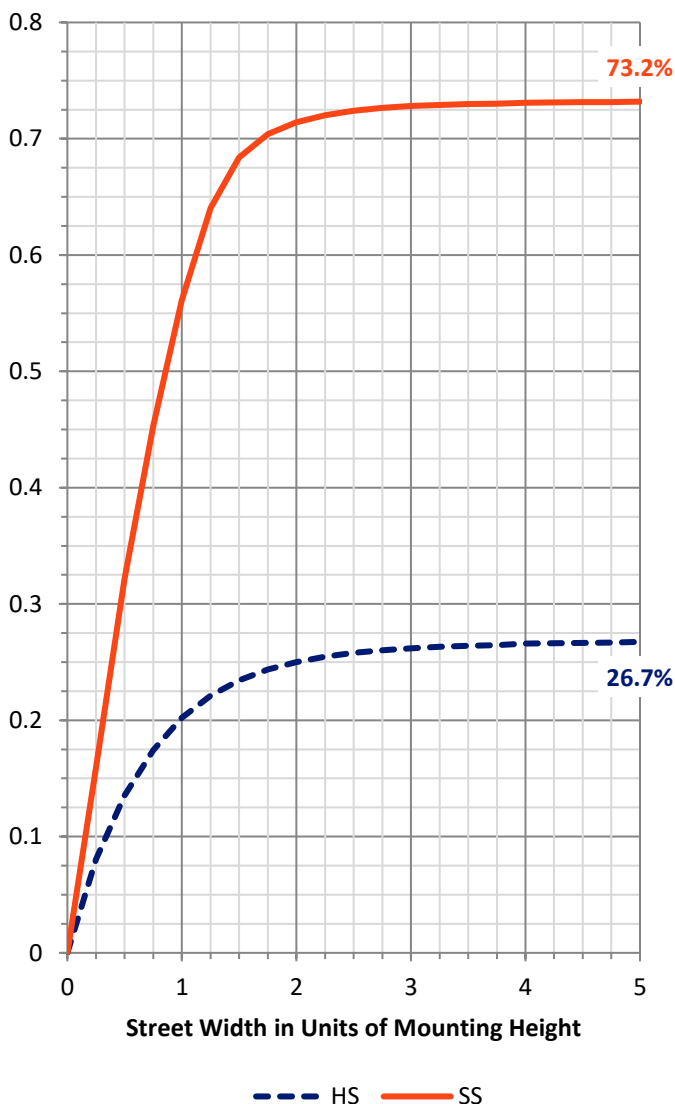
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9437.4	0.0	9437.4
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	25662.7	0.0	25662.7
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	35100.0	0.0	35100.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	666.0	1.9
10°-20°	2092.2	6.0
20°-30°	3659.0	10.4
30°-40°	5728.8	16.3
40°-50°	8333.8	23.7
50°-60°	9159.4	26.1
60°-70°	4088.4	11.6
70°-80°	1180.9	3.4
80°-90°	191.6	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°	35100.0	100.0
0°-180°	35100.0	100.0

**Coefficient of Utilization**



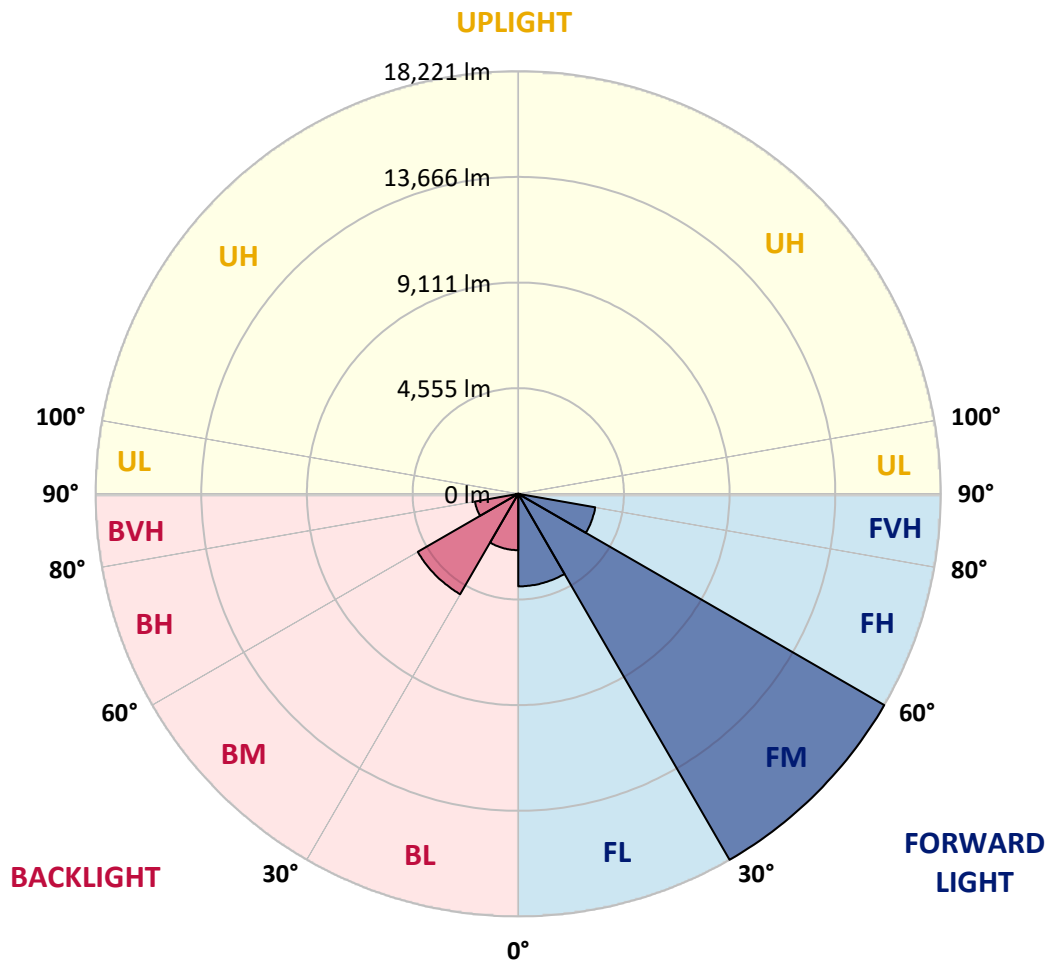
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3988.7	11.4			
FM (30°-60°)	18221.1	51.9			
FH (60°-80°)	3370.4	9.6			G2/5000
FVH (80°-90°)	82.5	0.2			G1/100
BL (0°-30°)	2428.4	6.9	B3/2500		
BM (30°-60°)	5001.0	14.2	B4/8500		
BH (60°-80°)	1898.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	109.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9
2.5°	7398.4	7280.1	7271.0	7239.2	7257.4	7175.5	7089.0	6975.3	6857.0	6929.8	6756.9
5°	7917.2	7757.9	7821.6	7712.4	7726.1	7616.9	7439.4	7307.4	7161.8	7075.4	6952.5
7.5°	8099.2	8112.8	8158.3	8140.1	8049.1	8049.1	7930.8	7698.8	7443.9	7393.9	7189.1
10°	8344.9	8349.4	8299.4	8313.0	8440.4	8381.3	8276.6	8176.5	7848.9	7789.8	7425.7
12.5°	8431.3	8349.4	8431.3	8504.1	8654.3	8736.2	8713.4	8640.6	8290.3	8249.3	7717.0
15°	8445.0	8394.9	8463.2	8627.0	8758.9	9104.7	9277.6	9227.6	8763.5	8768.0	8044.6
17.5°	8381.3	8449.5	8476.8	8617.9	8922.7	9245.8	9746.3	9814.5	9432.3	9373.2	8458.6
20°	8467.7	8417.7	8454.1	8581.5	8986.4	9491.5	10146.7	10597.2	10060.3	10019.3	8886.3
22.5°	8799.9	8731.6	8722.5	8804.4	9095.6	9618.9	10569.9	11379.8	10824.7	10847.4	9418.7
25°	9059.2	9095.6	9063.8	9059.2	9241.2	9810.0	11129.5	12312.5	11862.1	11730.1	10046.6
27.5°	9505.1	9591.6	9527.9	9614.3	9573.4	10096.7	11529.9	13345.4	12981.4	12804.0	10615.4
30°	10124.0	10169.5	10110.3	10110.3	9987.4	10497.1	11893.9	14423.8	14273.6	14032.5	11284.2
32.5°	10938.4	11006.7	10888.4	10820.1	10801.9	11093.1	12549.2	15488.5	15743.3	15538.6	12171.5
35°	12016.8	11975.8	11834.8	11771.1	11525.4	12007.7	13522.9	16712.5	17381.3	17017.3	13245.3
37.5°	12967.8	12904.1	12895.0	12540.1	12599.2	12995.1	14351.0	17640.7	18969.3	18864.7	14378.3
40°	13855.0	13914.2	14009.7	13809.5	13718.5	14155.3	15315.6	18350.5	20202.4	20161.5	15251.9
42.5°	14806.0	14751.4	14919.7	14751.4	14614.9	15233.7	16362.1	18841.9	21285.3	20948.6	16166.5
45°	16184.7	16011.8	16070.9	16084.6	15984.5	16212.0	16794.4	19196.8	22045.2	22008.8	16835.3
47.5°	17335.8	17340.4	17240.3	17162.9	16858.1	17085.6	17276.7	19419.8	22918.8	22859.7	17094.7
50°	17763.6	17704.4	17995.6	18164.0	18182.2	17718.1	17654.4	19542.6	23378.4	23119.0	17354.0
52.5°	16225.6	16280.2	16739.8	17740.8	18318.7	18368.7	18095.7	19797.4	23564.9	23510.3	17563.4
55°	13058.8	13322.7	14078.0	15233.7	16603.3	18109.4	18573.5	20061.4	23665.0	23619.5	18491.6
56°	11479.9	11684.6	12667.5	13572.9	15292.9	17167.5	18273.2	20343.5	23742.4	23956.2	18710.0
57.5°	9241.2	9477.8	10183.1	11211.4	13240.8	15374.8	17445.0	19997.6	23442.1	23524.0	18869.2
60°	5778.6	5801.4	6647.7	7325.6	8754.4	10838.3	13313.6	17399.5	21694.8	21576.5	16949.1
62.5°	3790.2	3794.8	4563.7	5118.9	5769.5	6247.3	7835.3	11539.0	16007.2	15797.9	12066.8
65°	2661.8	2721.0	3317.0	4058.7	4322.6	4072.3	4022.3	6083.5	8940.9	8640.6	6483.9
67.5°	1947.4	1952.0	2479.8	3276.1	3658.3	3098.6	2516.2	2971.2	3540.0	3530.9	3003.1
70°	1287.7	1342.3	1747.2	2447.9	2884.8	2488.9	2056.6	2124.9	2252.3	2252.3	2234.1
72.5°	750.8	800.8	1069.3	1551.6	1619.8	1556.1	1628.9	1820.0	1901.9	1897.4	1874.6
75°	427.7	450.5	509.6	646.1	805.4	951.0	1196.7	1378.7	1460.6	1510.6	1451.5
77.5°	250.3	263.9	300.3	368.6	418.6	514.2	650.7	778.1	887.3	873.6	882.7
80°	132.0	132.0	168.4	218.4	291.2	364.0	432.3	505.1	564.2	577.9	591.5
82.5°	77.4	81.9	109.2	159.3	209.3	259.4	332.2	382.2	436.8	441.4	450.5
85°	41.0	45.5	68.3	104.7	141.1	159.3	163.8	154.7	168.4	159.3	182.0
87.5°	13.7	13.7	22.8	18.2	18.2	22.8	27.3	27.3	36.4	36.4	36.4
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°	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9	6715.9
2.5°	6752.3	6752.3	6675.0	6529.4	6506.6	6447.5	6392.9	6388.3	6347.4	6311.0	6292.8
5°	6879.7	6738.7	6624.9	6493.0	6338.3	6265.5	6183.6	6092.6	6056.2	6092.6	6088.0
7.5°	7025.3	6907.0	6565.8	6320.1	6142.6	6069.8	5978.8	5883.3	5892.4	5892.4	5828.7
10°	7166.4	7007.1	6461.1	6147.2	5887.8	5833.2	5783.2	5819.6	5865.1	5874.2	5833.2
12.5°	7403.0	7043.5	6411.1	5974.3	5810.5	5692.2	5724.0	5824.1	5919.7	5892.4	5924.2
15°	7580.5	7075.4	6183.6	5796.8	5592.1	5646.7	5760.4	5828.7	5987.9	5969.7	6001.6
17.5°	7753.4	7093.6	5960.6	5560.2	5473.8	5623.9	5710.4	5906.0	5956.1	6065.3	6106.2
20°	8108.3	7130.0	5733.1	5414.6	5387.3	5560.2	5710.4	5801.4	5910.6	6006.1	6006.1
22.5°	8290.3	7111.8	5583.0	5223.5	5310.0	5419.2	5555.7	5710.4	5710.4	5801.4	5805.9
25°	8517.8	7039.0	5346.4	5132.5	5196.2	5300.9	5455.6	5401.0	5460.1	5460.1	5532.9
27.5°	8777.1	6884.3	5141.6	4968.7	5096.1	5209.9	5232.6	5196.2	5128.0	5118.9	5091.6
30°	8986.4	6693.2	4991.4	4914.1	5018.8	5082.5	5009.7	4932.3	4814.0	4804.9	4741.2
32.5°	9273.1	6456.6	4804.9	4777.6	4895.9	4900.4	4877.7	4759.4	4586.5	4513.7	4440.9
35°	9755.4	6320.1	4663.8	4704.8	4741.2	4727.5	4686.6	4559.2	4386.3	4354.4	4327.1
37.5°	10110.3	6220.0	4518.2	4568.3	4600.1	4618.3	4495.5	4354.4	4359.0	4295.3	4277.1
40°	10510.7	6156.3	4399.9	4422.7	4427.2	4486.4	4336.2	4268.0	4299.8	4258.9	4286.2
42.5°	11024.9	6174.5	4277.1	4258.9	4345.3	4322.6	4249.8	4158.8	4177.0	4054.1	4072.3
45°	11297.9	6297.3	4204.3	4122.4	4217.9	4213.4	4117.8	4031.4	3922.2	3685.6	3694.7
47.5°	11479.9	6329.2	4031.4	3976.8	4076.9	4136.0	4026.8	3826.6	3671.9	3503.6	3462.6
50°	11666.4	6388.3	3949.5	3835.7	3876.7	4017.7	3881.2	3690.1	3540.0	3389.8	3412.6
52.5°	11830.2	6502.1	3790.2	3621.9	3694.7	3849.4	3776.6	3544.5	3380.7	3257.9	3221.5
55°	12558.3	6756.9	3521.8	3303.4	3476.3	3671.9	3631.0	3348.9	3171.4	3107.7	3098.6
56°	12672.0	6766.0	3380.7	3194.2	3353.4	3612.8	3562.7	3262.4	3103.2	3003.1	3007.6
57.5°	12690.2	6656.8	3180.5	3094.1	3230.6	3526.3	3462.6	3194.2	2975.8	2884.8	2857.5
60°	11165.9	5196.2	2930.3	2875.7	3034.9	3262.4	3239.7	3007.6	2761.9	2657.3	2707.3
62.5°	7612.3	3808.4	2734.6	2725.5	2807.4	3030.4	2971.2	2761.9	2557.2	2488.9	2457.0
65°	4431.8	2889.3	2543.5	2507.1	2575.4	2693.7	2734.6	2516.2	2302.3	2256.8	2243.2
67.5°	2616.3	2388.8	2297.8	2238.6	2215.9	2288.7	2320.5	2193.1	1979.3	1915.6	1970.2
70°	2188.6	2124.9	2129.4	2029.3	1974.7	1924.7	1897.4	1783.6	1606.2	1524.3	1501.5
72.5°	1888.3	1861.0	1842.8	1751.8	1701.7	1588.0	1469.7	1355.9	1224.0	1155.7	1160.3
75°	1442.4	1433.3	1442.4	1396.9	1310.4	1219.4	1110.2	964.6	864.5	778.1	796.3
77.5°	860.0	887.3	900.9	882.7	846.3	764.4	696.2	600.6	505.1	436.8	427.7
80°	591.5	614.3	637.0	614.3	577.9	518.7	445.9	373.1	304.9	268.5	259.4
82.5°	450.5	473.2	486.9	464.1	418.6	354.9	304.9	254.8	200.2	163.8	154.7
85°	163.8	186.6	182.0	218.4	236.6	227.5	195.7	150.2	113.8	81.9	77.4
87.5°	45.5	41.0	45.5	45.5	45.5	41.0	36.4	36.4	36.4	22.8	18.2
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)