

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: P529818

Luminaire Tested: **GALN-SA5A-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-730-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17678 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

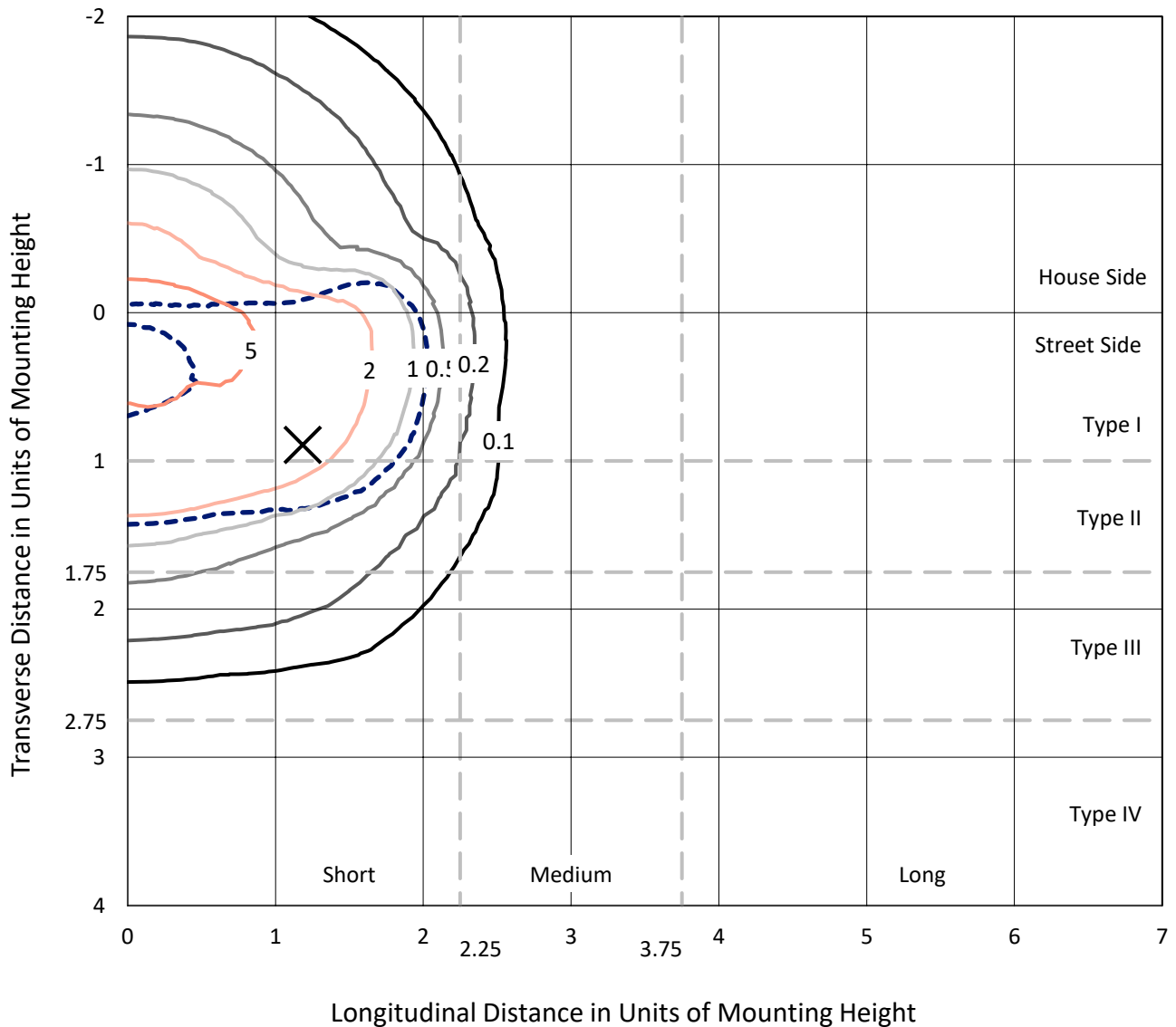
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

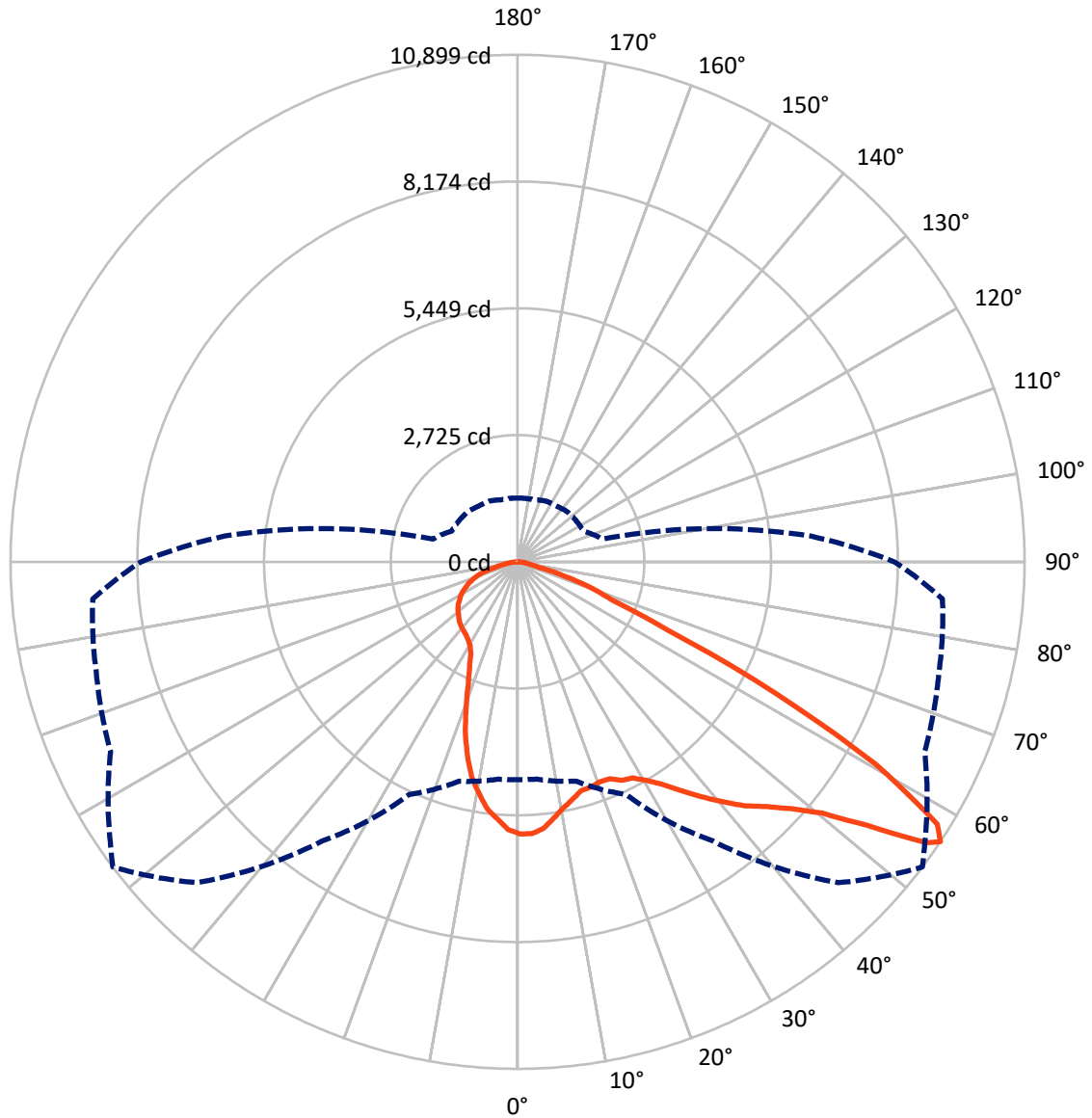
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



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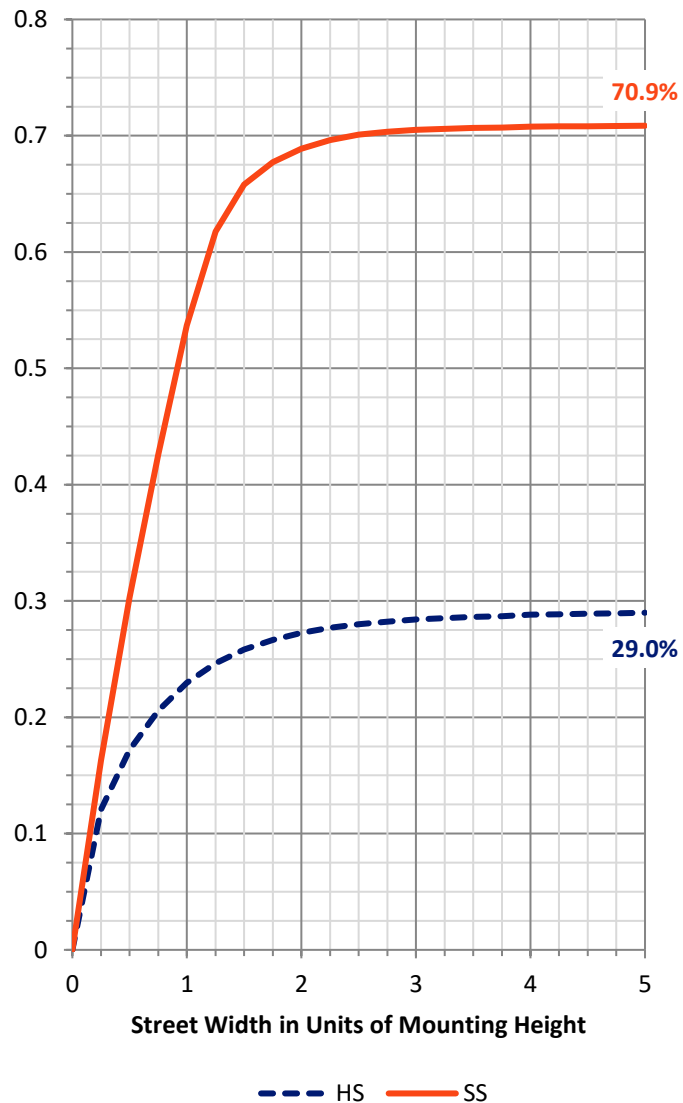
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5158.8	0.0	5158.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	12519.2	0.0	12519.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	17678.0	0.0	17678.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.8	2.9
10°-20°	1293.2	7.3
20°-30°	1906.9	10.8
30°-40°	2724.6	15.4
40°-50°	3750.0	21.2
50°-60°	4431.5	25.1
60°-70°	2361.7	13.4
70°-80°	599.1	3.4
80°-90°	93.4	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°	17678.0	100.0
0°-180°	17678.0	100.0

**Coefficient of Utilization**



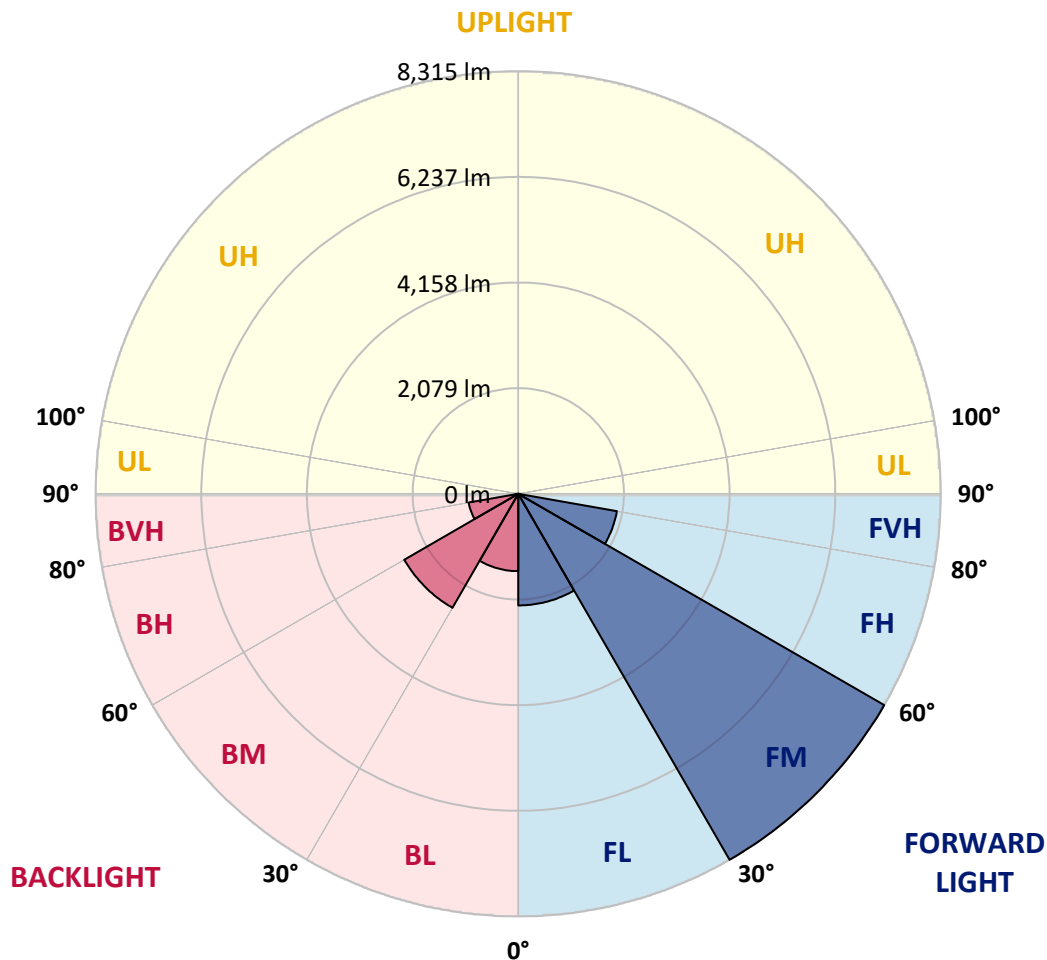
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.2	12.4			
FM (30°-60°)	8315.4	47.0			
FH (60°-80°)	1970.0	11.1			G2/5000
FVH (80°-90°)	37.6	0.2			G1/100
BL (0°-30°)	1521.5	8.6	B3/2500		
BM (30°-60°)	2590.6	14.7	B3/5000		
BH (60°-80°)	990.8	5.6	B2/1000		G2/1000
BVH (80°-90°)	55.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6
2.5°	5776.0	5726.1	5755.6	5744.3	5837.2	5864.5	5850.8	5862.2	5914.3	5889.4	5837.2
5°	5397.3	5467.6	5481.2	5515.2	5569.6	5676.2	5760.1	5782.8	5807.8	5923.4	5912.1
7.5°	5052.6	5100.2	5075.3	5175.1	5293.0	5465.3	5567.4	5585.5	5814.6	5878.1	5925.7
10°	4834.9	4787.3	4900.7	4927.9	5061.7	5259.0	5381.4	5456.3	5664.9	5916.6	5946.1
12.5°	4633.1	4617.2	4685.2	4762.3	4912.0	5116.1	5240.8	5270.3	5592.3	5857.7	5996.0
15°	4483.4	4465.2	4533.3	4590.0	4764.6	4946.0	5104.8	5188.7	5512.9	5823.6	5952.9
17.5°	4365.5	4363.2	4401.7	4503.8	4682.9	4834.9	5091.1	5095.7	5472.1	5875.8	5989.2
20°	4358.7	4356.4	4363.2	4476.6	4639.9	4825.8	5048.1	5088.9	5472.1	5839.5	5991.4
22.5°	4415.3	4379.1	4419.9	4492.5	4610.4	4841.7	5063.9	5154.6	5603.7	6018.7	6093.5
25°	4506.1	4515.1	4537.8	4562.8	4630.8	4878.0	5204.5	5279.4	5757.9	6172.9	6234.1
27.5°	4671.6	4667.1	4676.1	4689.7	4748.7	4912.0	5261.2	5454.0	6079.9	6447.3	6386.0
30°	4914.3	4898.4	4934.7	4982.3	4927.9	5020.8	5449.5	5594.6	6379.2	6723.9	6556.1
32.5°	5134.2	5193.2	5261.2	5281.6	5215.9	5234.0	5698.9	5846.3	6628.7	7064.1	6764.8
35°	5408.6	5456.3	5547.0	5610.5	5599.1	5544.7	6039.1	6234.1	6989.3	7313.6	6984.7
37.5°	5676.2	5732.9	5882.6	6070.8	5966.5	5941.6	6401.9	6562.9	7100.4	7447.4	7145.7
40°	6107.1	6104.8	6363.4	6460.9	6553.9	6510.8	6778.4	6832.8	7159.4	7417.9	7150.3
42.5°	6612.8	6581.1	6844.1	6996.1	7116.3	7120.8	7170.7	7152.5	7186.6	7268.2	7102.7
45°	7093.6	7161.6	7426.9	7699.1	7819.3	7832.9	7501.8	7467.8	7234.2	7225.1	7011.9
47.5°	7680.9	7696.8	7914.5	8272.8	8551.8	8456.5	7930.4	7855.6	7442.8	7513.1	7163.9
50°	7715.0	7832.9	8027.9	8449.7	9306.9	9282.0	8486.0	8345.4	7778.5	7921.3	7588.0
52.5°	7002.9	6975.7	7207.0	7896.4	9250.2	10102.9	9406.7	9071.1	8499.6	8390.7	8275.1
55°	5336.1	5399.6	5603.7	6299.9	8032.4	10114.3	10660.8	10386.4	9270.6	9084.7	8950.9
56°	4680.7	4689.7	4882.5	5517.5	7329.4	9753.7	10898.9	10676.7	9653.9	9370.4	9166.3
57.5°	3880.2	3828.0	3927.8	4274.7	6186.5	8991.7	10638.1	10855.8	10102.9	9678.8	9395.4
60°	3054.7	3043.3	3002.5	3066.0	3909.6	6773.8	8855.6	9345.5	10057.6	9388.6	8998.5
62.5°	2494.5	2437.9	2519.5	2610.2	2716.8	4202.2	6222.8	6510.8	7984.8	7495.0	6760.2
65°	1934.4	1907.2	2009.2	2304.1	2367.6	2669.2	3544.5	3766.8	4714.7	4630.8	4077.5
67.5°	1331.2	1335.7	1424.2	1873.2	2195.2	2168.0	2170.3	2285.9	2460.5	1827.8	1592.0
70°	843.6	841.3	889.0	1206.5	1766.6	1784.7	1694.0	1660.0	1573.8	952.5	1009.2
72.5°	542.0	526.1	551.1	666.7	913.9	1056.8	1088.5	1108.9	911.6	748.4	811.9
75°	306.1	290.3	281.2	310.7	360.6	417.3	458.1	471.7	528.4	566.9	601.0
77.5°	93.0	83.9	102.0	136.1	179.2	240.4	292.5	301.6	356.0	401.4	435.4
80°	40.8	45.4	63.5	90.7	127.0	170.1	206.4	220.0	256.3	290.3	299.3
82.5°	24.9	27.2	43.1	61.2	88.4	120.2	147.4	151.9	188.2	215.4	222.2
85°	9.1	11.3	22.7	36.3	56.7	77.1	77.1	83.9	77.1	77.1	83.9
87.5°	0.0	0.0	2.3	4.5	4.5	6.8	9.1	9.1	11.3	13.6	15.9
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°	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6	5848.6
2.5°	5864.5	5853.1	5835.0	5769.2	5762.4	5742.0	5628.6	5610.5	5628.6	5574.2	5578.7
5°	5853.1	5887.1	5751.1	5685.3	5562.8	5474.4	5372.3	5320.2	5227.2	5168.2	5234.0
7.5°	5903.0	5889.4	5719.3	5576.4	5392.8	5168.2	4989.1	4887.0	4723.8	4678.4	4712.4
10°	5884.9	5812.3	5612.7	5424.5	5077.5	4880.2	4590.0	4308.8	4154.6	4075.2	4063.8
12.5°	5859.9	5839.5	5506.1	5181.9	4816.7	4401.7	3993.5	3728.2	3476.5	3367.6	3383.5
15°	5889.4	5717.0	5306.6	4896.1	4410.8	3866.5	3426.6	3084.2	2909.5	2839.2	2839.2
17.5°	5875.8	5658.1	5211.3	4576.4	3961.8	3317.7	2834.7	2628.3	2555.8	2555.8	2576.2
20°	5882.6	5696.6	5018.6	4256.6	3431.1	2793.9	2442.4	2367.6	2399.3	2410.6	2422.0
22.5°	5921.1	5569.6	4830.4	3905.1	2939.0	2390.2	2217.9	2220.1	2276.8	2338.1	2326.7
25°	5968.8	5519.8	4601.3	3555.9	2562.6	2192.9	2138.5	2131.7	2174.8	2206.5	2211.1
27.5°	5928.0	5433.6	4367.7	3120.5	2254.2	2061.4	2050.1	2054.6	2068.2	2131.7	2111.3
30°	6061.7	5458.5	4075.2	2755.3	2084.1	2018.3	2004.7	1997.9	2018.3	2036.5	2020.6
32.5°	6227.3	5370.1	3857.5	2403.8	2000.2	1986.6	1959.4	1950.3	1961.6	1943.5	1952.6
35°	6299.9	5354.2	3574.0	2152.1	1934.4	1923.1	1907.2	1904.9	1907.2	1891.3	1877.7
37.5°	6340.7	5429.0	3249.7	2036.5	1893.6	1904.9	1868.6	1864.1	1823.3	1832.4	1839.2
40°	6411.0	5313.4	2986.7	1925.3	1868.6	1846.0	1814.2	1807.4	1780.2	1764.3	1780.2
42.5°	6308.9	5279.4	2728.1	1877.7	1832.4	1807.4	1784.7	1746.2	1737.1	1723.5	1714.4
45°	6227.3	5084.3	2496.8	1818.8	1789.3	1775.7	1732.6	1691.8	1657.7	1671.3	1650.9
47.5°	6288.5	5016.3	2267.8	1768.9	1730.3	1714.4	1671.3	1639.6	1605.6	1589.7	1585.2
50°	6533.4	5143.3	2075.0	1732.6	1680.4	1671.3	1614.7	1578.4	1546.6	1535.3	1539.8
52.5°	7118.5	5490.3	1943.5	1657.7	1632.8	1592.0	1560.2	1514.9	1494.5	1458.2	1480.9
55°	7860.1	6054.9	1909.5	1587.4	1573.8	1537.5	1494.5	1460.4	1421.9	1392.4	1385.6
56°	8098.2	6324.8	1882.2	1560.2	1537.5	1517.1	1460.4	1440.0	1378.8	1372.0	1367.5
57.5°	8291.0	6562.9	1886.8	1508.1	1485.4	1467.2	1433.2	1383.3	1342.5	1317.6	1328.9
60°	7855.6	6143.4	1800.6	1428.7	1424.2	1390.1	1342.5	1319.8	1270.0	1240.5	1233.7
62.5°	5839.5	4170.4	1460.4	1326.6	1324.4	1288.1	1233.7	1208.7	1199.7	1158.8	1158.8
65°	3363.1	2614.7	1263.1	1242.7	1224.6	1188.3	1133.9	1113.5	1090.8	1077.2	1065.9
67.5°	1435.5	1356.1	1147.5	1145.2	1124.8	1079.5	1025.0	993.3	963.8	936.6	950.2
70°	1040.9	1056.8	1036.4	1025.0	1000.1	943.4	895.8	857.2	811.9	793.7	807.3
72.5°	825.5	859.5	889.0	891.2	861.8	796.0	743.8	691.7	641.8	616.8	628.2
75°	625.9	648.6	678.1	684.9	641.8	596.4	546.5	492.1	453.6	424.1	428.6
77.5°	451.3	446.8	474.0	469.4	449.0	417.3	371.9	322.0	278.9	251.7	254.0
80°	308.4	315.2	331.1	328.8	303.9	283.5	249.5	208.6	176.9	154.2	149.7
82.5°	215.4	226.8	240.4	229.0	208.6	188.2	163.3	133.8	108.9	90.7	86.2
85°	77.1	88.4	102.0	108.9	115.7	111.1	93.0	74.8	54.4	45.4	43.1
87.5°	15.9	18.1	20.4	20.4	20.4	18.1	15.9	15.9	13.6	6.8	6.8
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)