

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: P318833

Luminaire Tested: **GLEON-SA9A-827-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9A-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30811 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

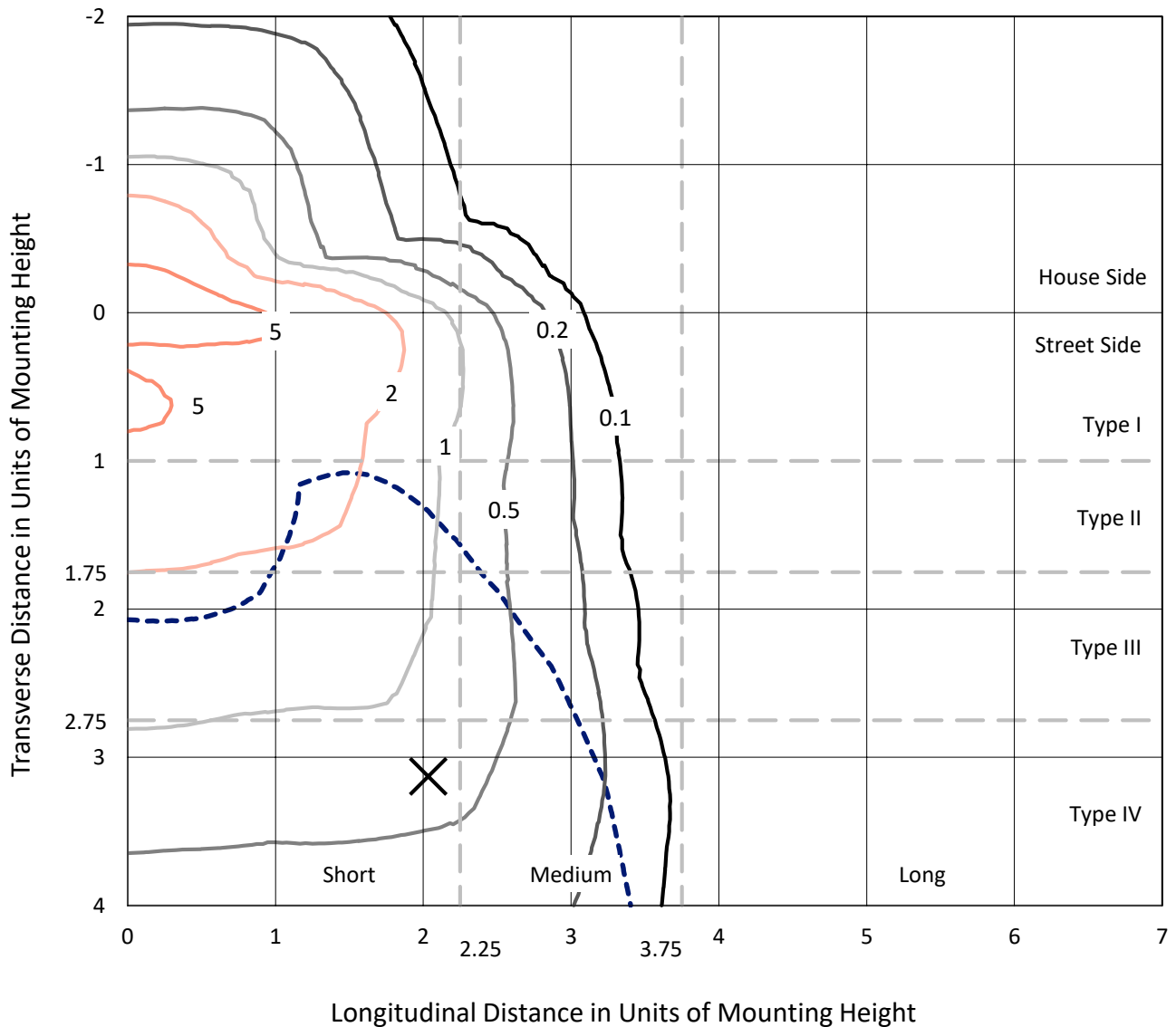
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P318833  
 CATALOG NUMBER: GLEON-SA9A-827-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

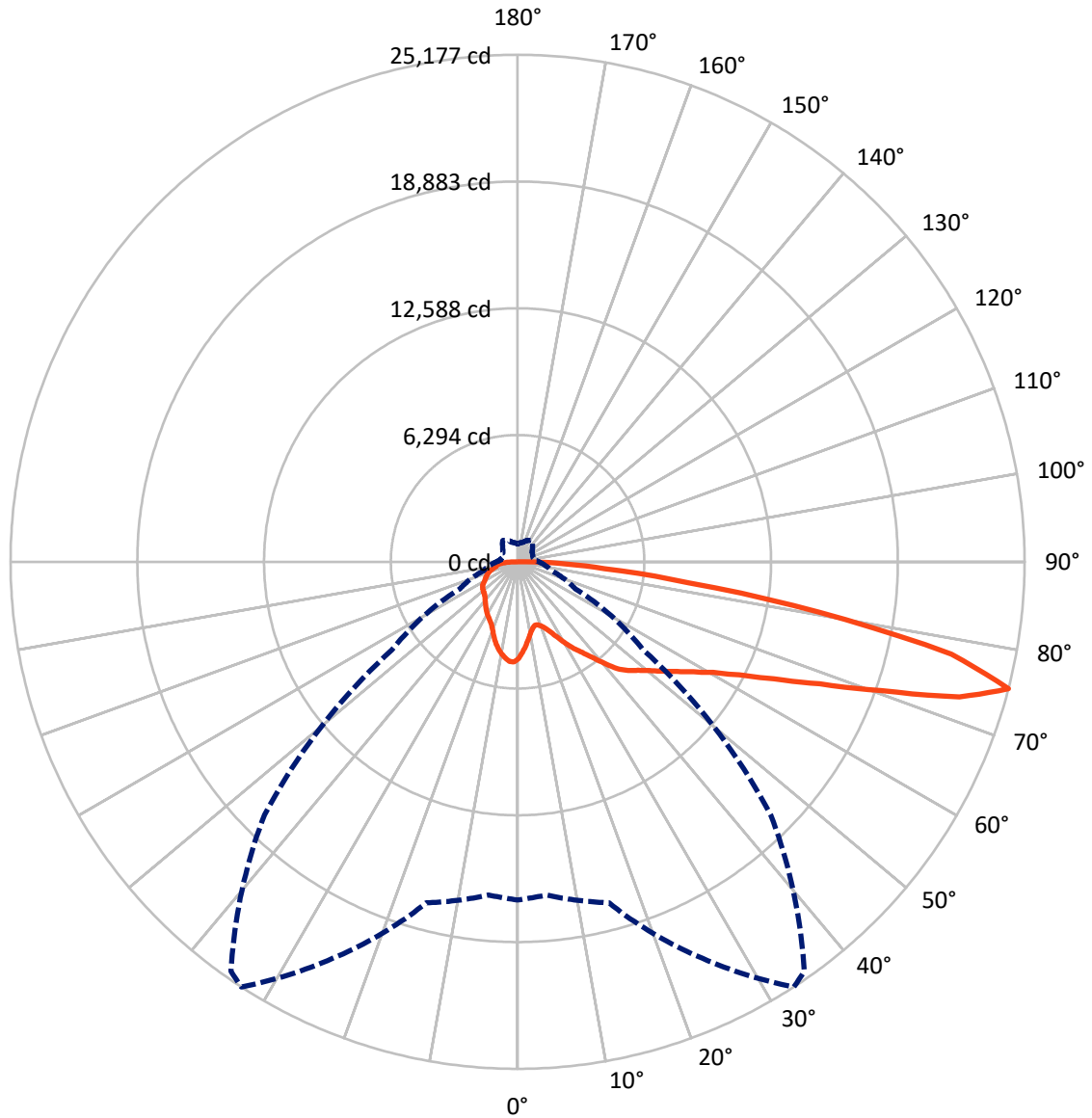
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P318833  
CATALOG NUMBER: GLEON-SA9A-827-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P318833  
 CATALOG NUMBER: GLEON-SA9A-827-U-T4FT

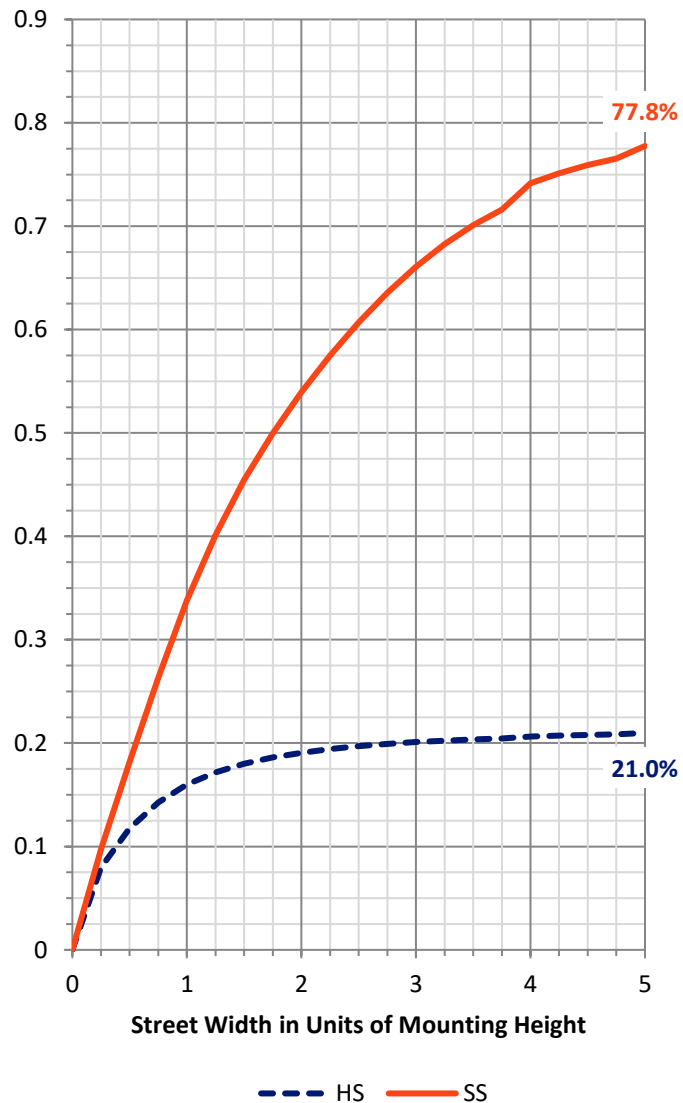
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6615.9	0.0	6615.9
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	24195.1	0.0	24195.1
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	30811.0	0.0	30811.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.5	1.4
10°-20°	1179.6	3.8
20°-30°	1926.5	6.3
30°-40°	2869.0	9.3
40°-50°	4114.9	13.4
50°-60°	5649.2	18.3
60°-70°	7072.5	23.0
70°-80°	6398.2	20.8
80°-90°	1165.5	3.8
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°	30811.0	100.0
0°-180°	30811.0	100.0

**Coefficient of Utilization**

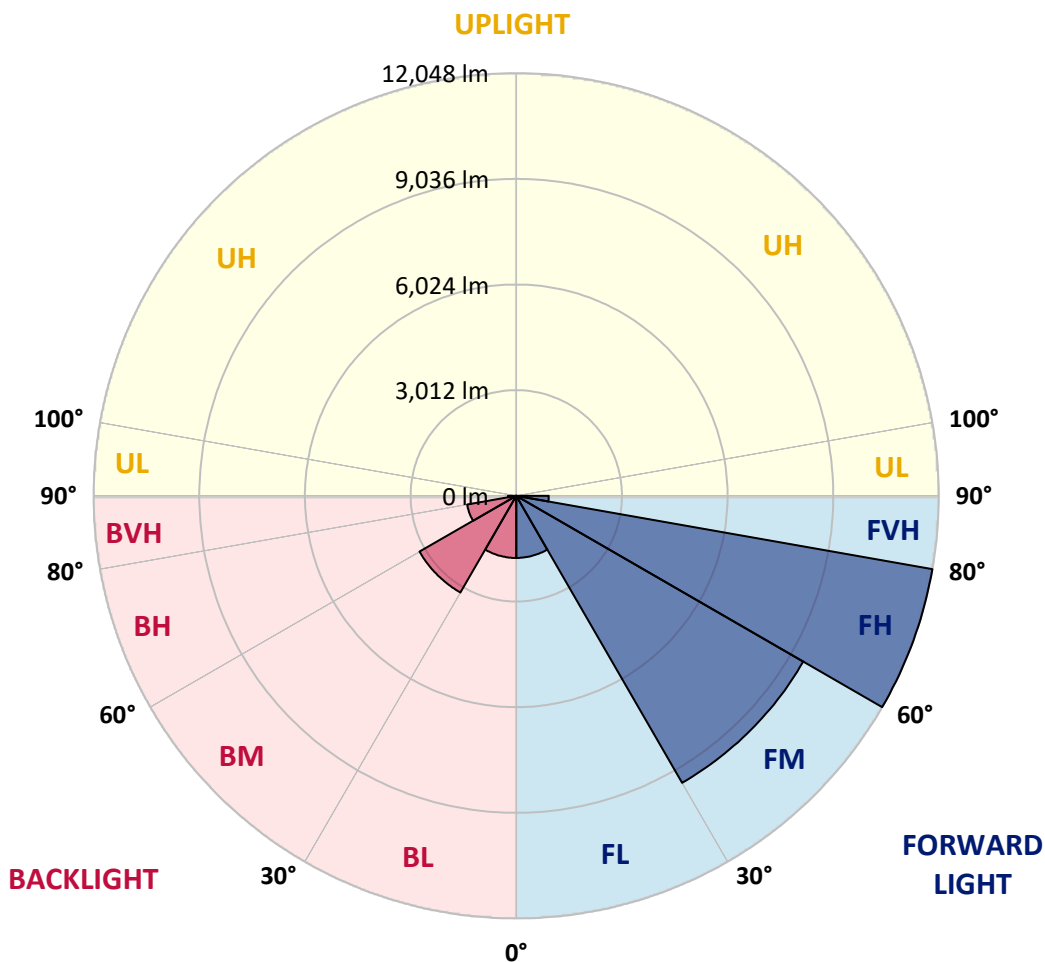


REPORT NUMBER: P318833  
 CATALOG NUMBER: GLEON-SA9A-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1769.6	5.7			
FM (30°-60°)	9449.1	30.7			
FH (60°-80°)	12048.2	39.1			G5
FVH (80°-90°)	928.2	3.0			G5
BL (0°-30°)	1772.1	5.8	B3/2500		
BM (30°-60°)	3184.1	10.3	B3/5000		
BH (60°-80°)	1422.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	237.3	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





REPORT NUMBER: P318833  
 CATALOG NUMBER: GLEON-SA9A-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9
2.5°	4472.2	4455.1	4487.1	4491.3	4519.0	4529.6	4568.0	4627.6	4676.5	4732.9	4784.0
5°	4066.7	4055.0	4099.7	4131.6	4192.3	4217.8	4308.3	4434.9	4547.7	4675.4	4791.5
7.5°	3681.4	3675.0	3725.0	3797.4	3867.6	3902.8	4059.2	4243.3	4431.7	4638.2	4815.9
10°	3356.8	3354.7	3402.5	3473.9	3577.1	3616.5	3818.7	4061.3	4325.3	4609.5	4857.4
12.5°	3174.8	3182.2	3204.6	3264.2	3360.0	3399.4	3623.9	3909.2	4235.9	4599.9	4918.1
15°	3219.5	3231.2	3192.9	3190.8	3258.9	3289.7	3500.5	3800.6	4172.0	4615.8	5006.4
17.5°	3410.0	3412.1	3311.0	3247.2	3288.7	3304.6	3462.1	3738.9	4134.8	4652.0	5117.1
20°	3678.2	3672.9	3494.1	3387.6	3410.0	3414.3	3516.4	3739.9	4131.6	4714.8	5260.8
22.5°	4033.7	3994.3	3753.8	3609.0	3603.7	3597.3	3655.9	3818.7	4178.4	4817.0	5432.2
25°	4497.7	4460.5	4129.5	3931.5	3888.9	3873.0	3881.5	3986.8	4271.0	4926.6	5623.7
27.5°	5013.9	4949.0	4629.7	4349.8	4261.4	4239.1	4188.0	4224.2	4372.1	5032.0	5851.5
30°	5446.0	5410.9	5132.0	4800.0	4695.7	4663.7	4529.6	4490.3	4517.9	5175.7	6138.8
32.5°	5687.6	5664.2	5495.0	5226.7	5129.9	5085.2	4895.8	4817.0	4752.1	5402.4	6528.4
35°	5980.3	5965.4	5863.2	5668.4	5524.8	5477.9	5331.1	5249.1	5082.0	5714.2	7031.8
37.5°	6352.8	6336.8	6338.9	6181.4	6010.1	5966.4	5869.6	5783.4	5509.9	6123.9	7578.8
40°	6774.2	6743.4	6731.7	6724.2	6615.7	6591.2	6540.1	6423.0	6046.3	6613.5	8118.4
42.5°	7408.6	7298.9	7064.8	7153.1	7260.6	7247.8	7289.4	7121.2	6642.3	7192.5	8645.3
45°	8020.5	7840.7	7436.2	7455.4	7690.6	7761.9	8072.7	7953.5	7288.3	7826.8	9190.2
47.5°	8299.4	8163.1	7819.4	7820.4	8053.5	8201.5	8882.6	8797.5	7967.3	8547.3	9855.4
50°	8611.2	8475.0	8166.3	8282.3	8485.6	8643.1	9664.9	9621.2	8613.3	9336.0	10652.5
52.5°	8951.8	8720.8	8525.0	8732.5	9017.8	9200.8	10448.2	10329.0	9206.1	10130.0	11568.9
55°	8956.0	8893.2	9042.2	9194.4	9621.2	9845.8	11268.7	10953.7	9689.3	10910.1	12315.0
57.5°	9465.8	9363.7	9679.8	9750.0	10307.7	10561.0	12085.1	11497.6	10181.0	11508.2	12717.3
60°	10140.6	10053.3	10311.9	10497.1	11157.0	11495.4	12956.7	12056.3	10567.4	11959.5	12698.1
62.5°	11306.0	11207.0	11203.8	11463.5	12352.2	12746.0	13934.8	12604.4	10720.6	12048.9	12156.4
65°	13012.1	12854.5	12557.6	12681.1	14002.9	14395.6	15027.8	13001.4	10518.4	11569.9	10761.1
67.5°	14672.4	14667.0	14302.0	14555.3	16182.6	16497.6	16273.1	13040.8	9887.3	9902.2	8285.5
70°	16327.3	16348.6	16286.9	17168.1	19127.5	19455.3	17599.2	12511.8	8468.6	7151.0	4963.9
72.5°	17638.6	17633.2	17944.0	20216.3	22949.4	22875.9	18716.7	10909.0	6080.3	3860.2	2372.3
75°	16789.2	16604.1	17530.0	21725.4	25176.9	24818.3	17766.3	7609.7	3155.6	1757.2	1277.2
77.5°	10950.5	11126.1	12485.2	17947.2	22022.4	21586.0	13034.4	3550.5	1486.8	1152.6	925.9
80°	3965.6	4150.7	5846.2	10166.1	15172.6	15101.3	6418.8	1459.1	1005.8	870.6	674.8
82.5°	1364.4	1432.5	2306.3	4514.7	8566.5	8885.8	2414.9	829.1	731.2	617.3	461.9
85°	535.3	613.0	1054.7	2172.2	4321.0	4353.0	978.1	496.0	508.7	404.4	253.3
87.5°	203.3	246.9	504.5	1009.0	1973.2	1812.5	350.2	236.3	289.5	240.5	120.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318833  
 CATALOG NUMBER: GLEON-SA9A-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9	4815.9
2.5°	4823.4	4845.7	4892.6	4924.5	4958.5	4968.1	4972.4	4980.9	4989.4	4986.2	4987.3
5°	4853.2	4896.8	4972.4	5004.3	5019.2	5002.2	4969.2	4942.6	4923.4	4912.8	4909.6
7.5°	4902.1	4963.9	5044.8	5039.4	5005.4	4929.8	4844.7	4780.8	4727.6	4708.4	4697.8
10°	4967.1	5039.4	5095.8	5035.2	4936.2	4805.3	4677.6	4578.6	4498.8	4467.9	4462.6
12.5°	5050.1	5123.5	5134.2	5005.4	4841.5	4662.7	4489.2	4358.3	4239.1	4200.8	4192.3
15°	5157.6	5226.7	5160.8	4953.2	4724.4	4483.9	4259.3	4081.6	3956.0	3909.2	3892.1
17.5°	5270.4	5336.4	5166.1	4867.0	4571.1	4272.1	3990.0	3808.0	3664.4	3610.1	3603.7
20°	5405.6	5435.4	5143.7	4743.6	4360.4	3997.5	3700.6	3529.2	3452.6	3414.3	3410.0
22.5°	5572.6	5540.7	5092.6	4576.5	4093.3	3680.3	3438.7	3358.9	3339.8	3331.2	3334.4
25°	5749.3	5651.4	5017.1	4358.3	3755.9	3363.2	3247.2	3269.5	3295.1	3291.9	3291.9
27.5°	5944.1	5764.2	4901.1	4068.8	3382.3	3103.5	3117.3	3199.3	3237.6	3236.5	3235.5
30°	6194.2	5891.9	4753.1	3720.8	3033.2	2920.4	3004.5	3104.5	3156.7	3154.6	3155.6
32.5°	6501.8	6032.4	4552.0	3332.3	2781.0	2785.3	2882.1	2981.1	3041.8	3036.4	3037.5
35°	6861.5	6189.9	4279.5	2949.2	2613.9	2677.8	2754.4	2823.6	2881.0	2873.6	2866.1
37.5°	7253.2	6344.3	3917.7	2606.5	2477.7	2577.7	2641.6	2653.3	2679.9	2660.7	2646.9
40°	7625.7	6462.4	3451.5	2325.5	2340.4	2492.6	2534.1	2487.3	2439.4	2433.0	2413.8
42.5°	7950.3	6501.8	2980.0	2100.9	2195.6	2403.2	2428.7	2330.8	2244.6	2204.2	2187.1
45°	8293.0	6515.6	2540.5	1912.5	2056.2	2323.4	2351.0	2220.1	2098.8	2011.5	1982.8
47.5°	8741.0	6615.7	2198.8	1773.1	1949.8	2270.1	2309.5	2131.8	1974.3	1849.7	1823.1
50°	9327.5	6813.6	1921.1	1666.7	1880.6	2235.0	2279.7	2045.6	1872.1	1722.0	1695.4
52.5°	9978.8	6995.6	1696.5	1580.5	1813.6	2173.3	2241.4	1983.8	1776.3	1603.9	1575.2
55°	10434.3	6856.2	1515.6	1491.1	1726.3	2085.0	2188.2	1931.7	1639.0	1488.9	1463.4
57.5°	10521.6	6379.4	1378.3	1398.5	1620.9	1974.3	2106.2	1815.7	1564.5	1438.9	1412.3
60°	10283.2	5715.3	1276.1	1313.3	1508.1	1834.8	1953.0	1733.7	1493.2	1385.7	1363.4
62.5°	9684.0	5035.2	1200.5	1236.7	1402.7	1693.3	1857.2	1647.5	1420.8	1325.0	1302.7
65°	8473.9	4227.4	1128.2	1168.6	1304.8	1570.9	1771.0	1567.7	1349.5	1276.1	1254.8
67.5°	6396.4	3166.3	1060.0	1096.2	1217.6	1464.5	1677.3	1488.9	1280.3	1233.5	1208.0
70°	3766.5	1982.8	982.3	1020.7	1126.0	1353.8	1577.3	1402.7	1194.1	1172.9	1139.9
72.5°	1752.9	1193.1	894.0	931.3	1011.1	1205.8	1448.5	1289.9	1092.0	1045.1	1000.4
75°	1046.2	872.7	789.7	822.7	879.1	1048.3	1286.7	1175.0	995.1	933.4	886.6
77.5°	782.3	667.3	674.8	709.9	755.6	917.4	1139.9	1084.5	920.6	872.7	840.8
80°	563.0	506.6	550.2	588.6	636.4	834.4	1092.0	1002.6	832.3	768.4	738.6
82.5°	375.7	364.0	414.0	453.4	500.2	730.1	1026.0	878.0	710.9	630.1	564.1
85°	207.5	219.2	278.8	295.9	336.3	514.1	840.8	705.6	535.3	431.0	411.9
87.5°	86.2	101.1	150.1	144.7	178.8	306.5	553.4	425.7	340.6	254.4	198.0
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)