

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: P318859

Luminaire Tested: **GLEON-SA5D-827-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318859  
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-SA5D-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1200mA 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: 28680 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

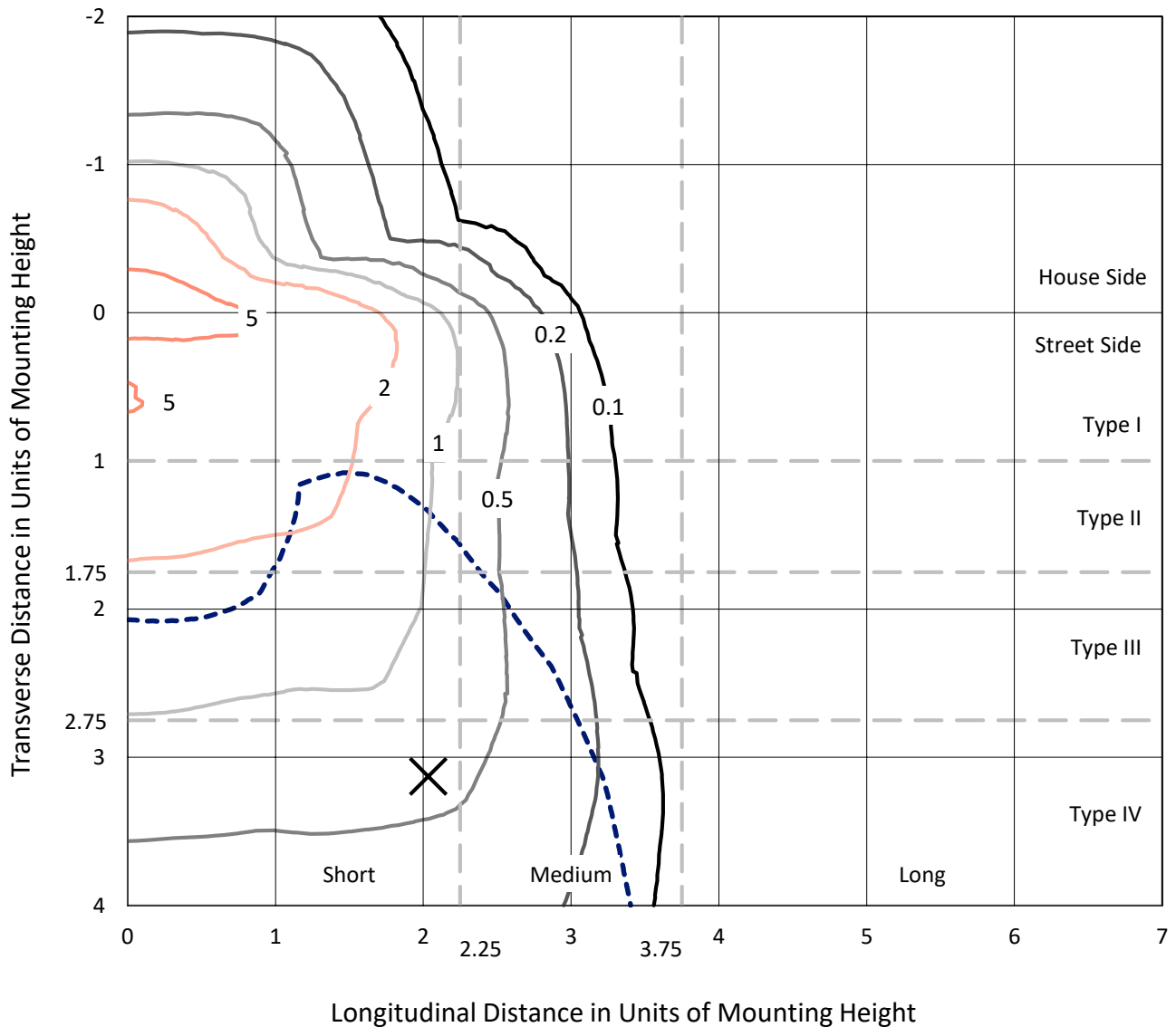
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

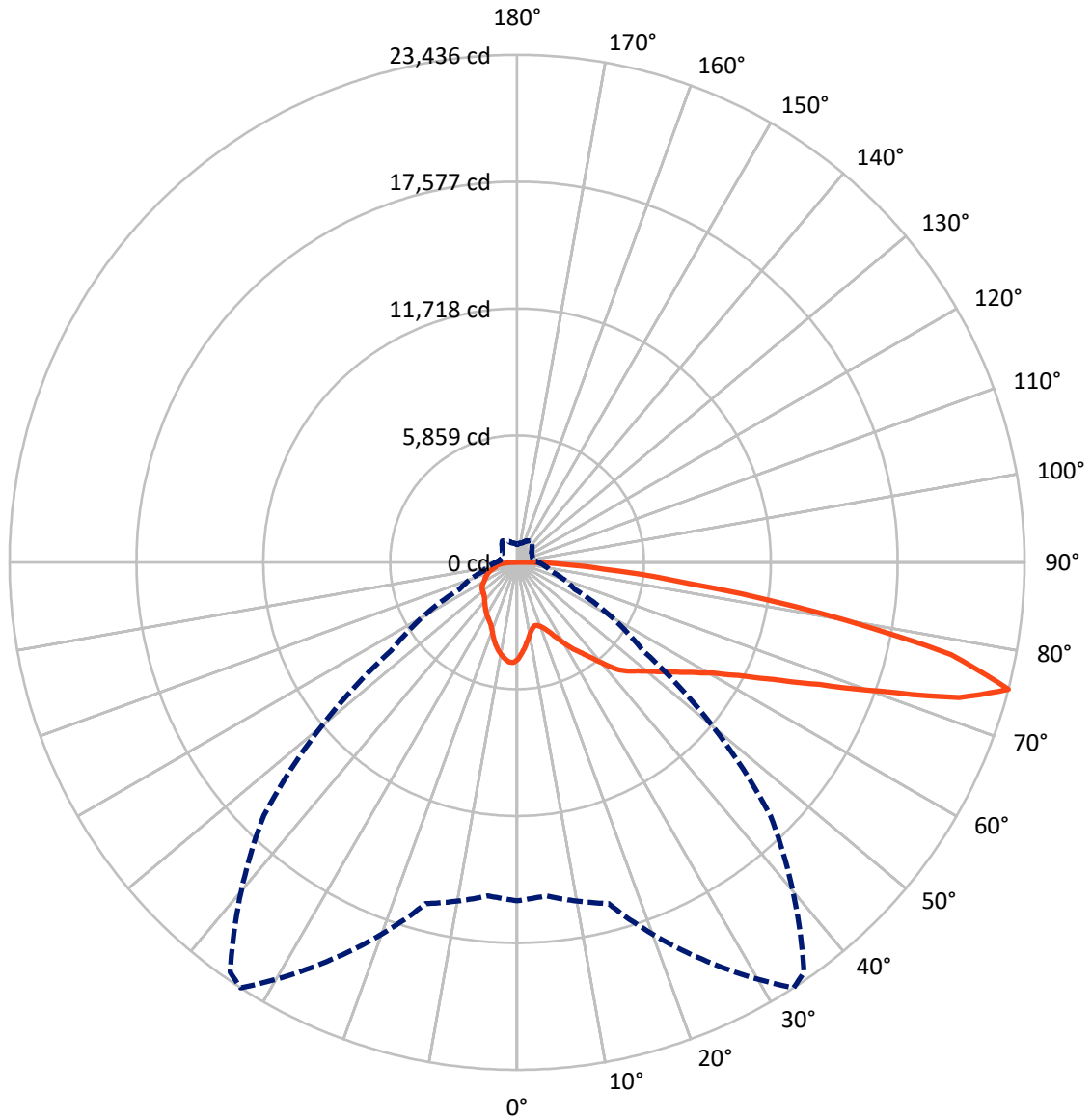
✕ Max cd  
 - - - 1/2 Max cd



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

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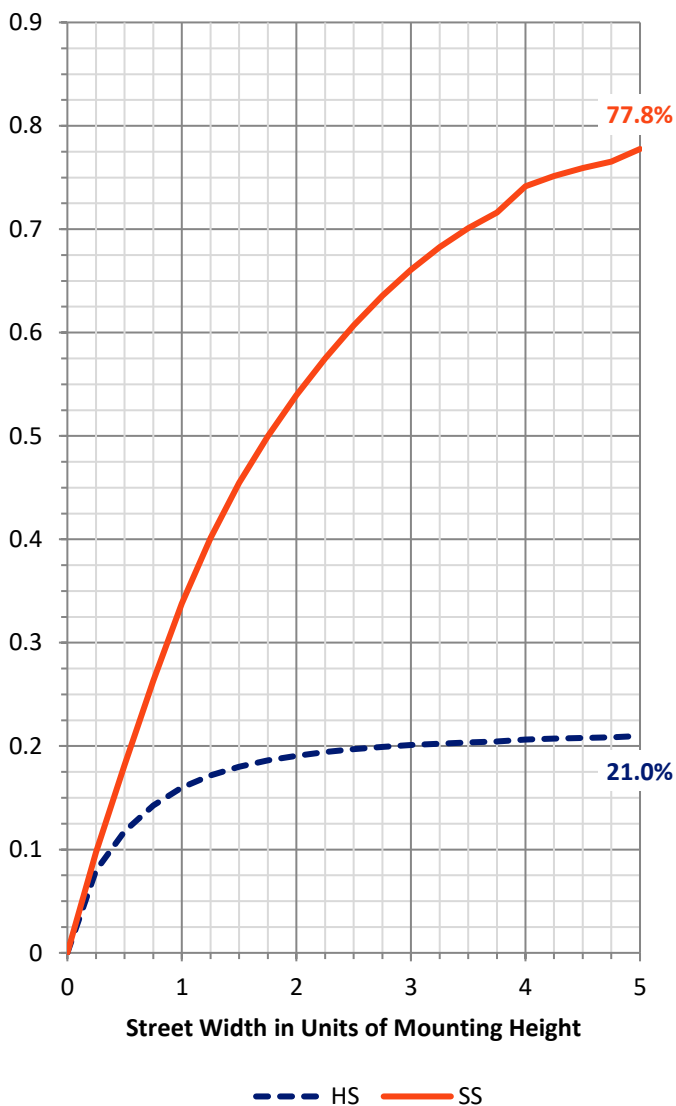
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6158.3	0.0	6158.3
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	22521.7	0.0	22521.7
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	28680.0	0.0	28680.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.4	1.4
10°-20°	1098.0	3.8
20°-30°	1793.3	6.3
30°-40°	2670.6	9.3
40°-50°	3830.3	13.4
50°-60°	5258.5	18.3
60°-70°	6583.4	23.0
70°-80°	5955.7	20.8
80°-90°	1084.9	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°	28680.0	100.0
0°-180°	28680.0	100.0

**Coefficient of Utilization**



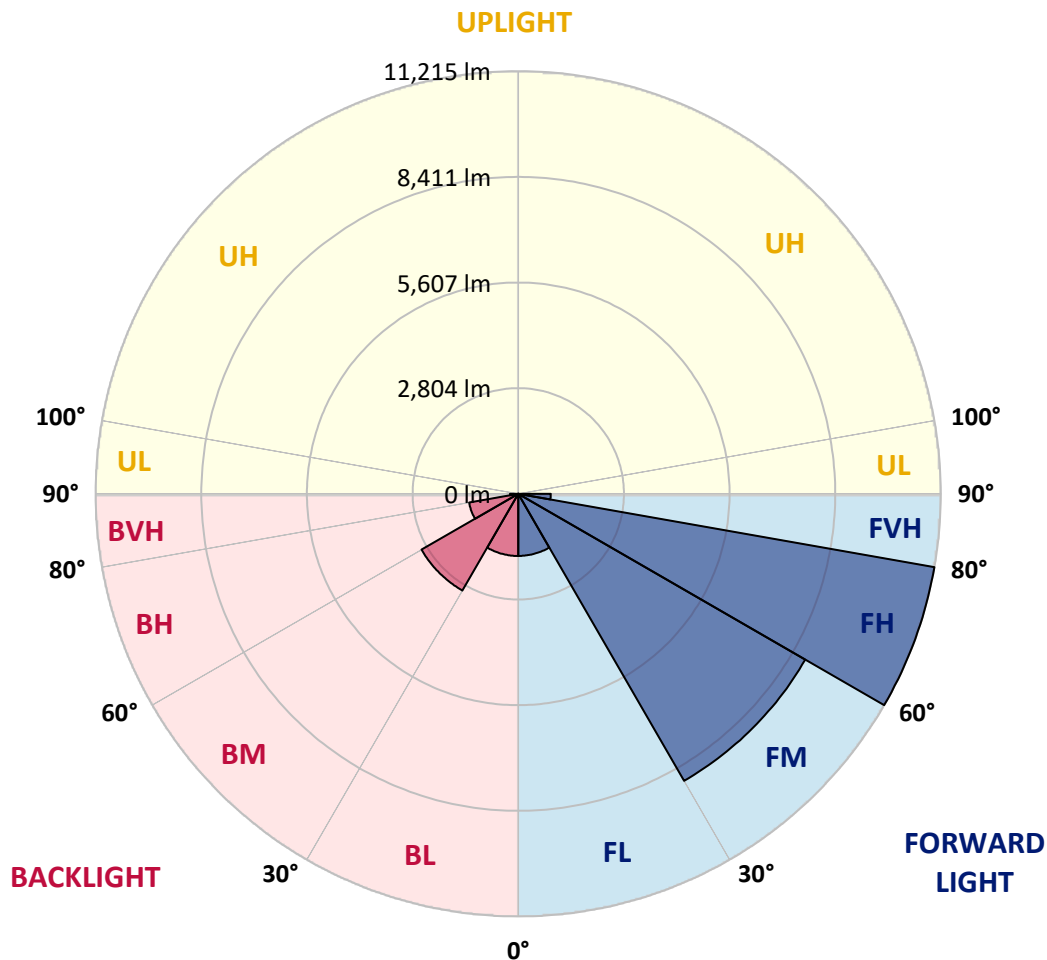
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 CATALOG NUMBER: GLEON-SA5D-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1647.2	5.7			
FM (30°-60°)	8795.6	30.7			
FH (60°-80°)	11214.9	39.1			G4/12000
FVH (80°-90°)	864.0	3.0			G5
BL (0°-30°)	1649.5	5.8	B3/2500		
BM (30°-60°)	2963.8	10.3	B3/5000		
BH (60°-80°)	1324.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	220.9	0.8			G2/225
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°	33°	35°	45°	55°	65°	75°	85°
0°	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8
2.5°	4162.9	4147.0	4176.7	4180.7	4206.4	4216.4	4252.0	4307.5	4353.1	4405.6	4453.1
5°	3785.4	3774.5	3816.1	3845.8	3902.3	3926.1	4010.3	4128.2	4233.2	4352.1	4460.1
7.5°	3426.8	3420.8	3467.4	3534.8	3600.1	3632.8	3778.5	3949.9	4125.2	4317.4	4482.8
10°	3124.6	3122.6	3167.2	3233.6	3329.7	3366.3	3554.6	3780.4	4026.1	4290.7	4521.5
12.5°	2955.2	2962.1	2982.9	3038.4	3127.6	3164.2	3373.3	3638.8	3942.9	4281.7	4578.0
15°	2996.8	3007.7	2972.1	2970.1	3033.5	3062.2	3258.4	3537.7	3883.5	4296.6	4660.2
17.5°	3174.2	3176.1	3082.0	3022.6	3061.2	3076.1	3222.7	3480.3	3848.8	4330.3	4763.2
20°	3423.8	3418.9	3252.4	3153.3	3174.2	3178.1	3273.2	3481.3	3845.8	4388.7	4897.0
22.5°	3754.7	3718.0	3494.1	3359.4	3354.5	3348.5	3403.0	3554.6	3889.4	4483.8	5056.5
25°	4186.6	4152.0	3843.9	3659.6	3620.0	3605.1	3613.0	3711.1	3975.6	4585.9	5234.8
27.5°	4667.1	4606.7	4309.5	4048.9	3966.7	3945.9	3898.3	3932.0	4069.7	4684.0	5446.8
30°	5069.3	5036.6	4777.1	4468.0	4370.9	4341.2	4216.4	4179.7	4205.5	4817.7	5714.3
32.5°	5294.2	5272.4	5114.9	4865.2	4775.1	4733.5	4557.1	4483.8	4423.4	5028.7	6076.9
35°	5566.7	5552.8	5457.7	5276.4	5142.6	5099.1	4962.3	4886.1	4730.5	5319.0	6545.4
37.5°	5913.4	5898.5	5900.5	5753.9	5594.4	5553.8	5463.6	5383.4	5128.8	5700.4	7054.7
40°	6305.7	6277.0	6266.1	6259.1	6158.1	6135.3	6087.8	5978.8	5628.1	6156.1	7556.9
42.5°	6896.2	6794.1	6576.2	6658.4	6758.4	6746.6	6785.2	6628.7	6182.9	6695.0	8047.3
45°	7465.8	7298.4	6921.9	6939.7	7158.7	7225.1	7514.3	7403.4	6784.2	7285.5	8554.6
47.5°	7725.4	7598.5	7278.6	7279.5	7496.5	7634.2	8268.2	8189.0	7416.3	7956.2	9173.7
50°	8015.6	7888.8	7601.5	7709.5	7898.7	8045.3	8996.4	8955.8	8017.6	8690.3	9915.8
52.5°	8332.6	8117.7	7935.4	8128.6	8394.1	8564.5	9725.5	9614.6	8569.4	9429.3	10768.7
55°	8336.6	8278.2	8416.9	8558.5	8955.8	9164.8	10489.4	10196.1	9019.2	10155.5	11463.2
57.5°	8811.1	8716.0	9010.3	9075.7	9594.8	9830.6	11249.2	10702.4	9476.9	10712.3	11837.7
60°	9439.2	9358.0	9598.7	9771.1	10385.3	10700.4	12060.6	11222.5	9836.5	11132.3	11819.8
62.5°	10524.0	10431.9	10428.9	10670.7	11497.9	11864.4	12971.0	11732.7	9979.2	11215.5	11315.6
65°	12112.1	11965.5	11689.1	11804.0	13034.4	13400.0	13988.5	12102.2	9790.9	10769.7	10016.8
67.5°	13657.6	13652.6	13312.8	13548.6	15063.3	15356.6	15147.6	12138.9	9203.5	9217.3	7712.5
70°	15198.1	15217.9	15160.4	15980.7	17804.6	18109.7	16381.9	11646.5	7882.9	6656.4	4620.5
72.5°	16418.6	16413.7	16702.9	18818.0	21362.1	21293.8	17422.2	10154.5	5659.8	3593.2	2208.2
75°	15628.0	15455.7	16317.6	20222.8	23435.6	23101.8	16537.5	7083.4	2937.4	1635.6	1188.8
77.5°	10193.1	10356.6	11621.7	16705.9	20499.2	20093.1	12132.9	3304.9	1384.0	1072.9	861.9
80°	3691.3	3863.7	5441.8	9463.0	14123.2	14056.8	5974.8	1358.2	936.2	810.4	628.1
82.5°	1270.1	1333.5	2146.8	4202.5	7974.0	8271.2	2247.9	771.7	680.6	574.6	430.0
85°	498.3	570.6	981.8	2022.0	4022.2	4051.9	910.4	461.7	473.5	376.5	235.8
87.5°	189.2	229.8	469.6	939.2	1836.7	1687.1	325.9	219.9	269.5	223.9	111.9
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°	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8	4482.8
2.5°	4489.8	4510.6	4554.2	4583.9	4615.6	4624.5	4628.5	4636.4	4644.3	4641.4	4642.3
5°	4517.5	4558.1	4628.5	4658.2	4672.1	4656.2	4625.5	4600.7	4582.9	4573.0	4570.0
7.5°	4563.1	4620.5	4695.8	4690.9	4659.2	4588.8	4509.6	4450.2	4400.6	4382.8	4372.9
10°	4623.5	4690.9	4743.4	4686.9	4594.8	4472.9	4354.1	4261.9	4187.6	4158.9	4153.9
12.5°	4700.8	4769.2	4779.1	4659.2	4506.6	4340.2	4178.7	4056.9	3945.9	3910.2	3902.3
15°	4800.9	4865.2	4803.8	4610.6	4397.6	4173.8	3964.7	3799.3	3682.4	3638.8	3622.9
17.5°	4905.9	4967.3	4808.8	4530.4	4255.0	3976.6	3714.1	3544.7	3410.9	3360.4	3354.5
20°	5031.7	5059.4	4788.0	4415.5	4058.8	3721.0	3444.6	3285.1	3213.8	3178.1	3174.2
22.5°	5187.2	5157.5	4740.4	4259.9	3810.2	3425.8	3200.9	3126.6	3108.8	3100.8	3103.8
25°	5351.7	5260.5	4670.1	4056.9	3496.1	3130.6	3022.6	3043.4	3067.2	3064.2	3064.2
27.5°	5533.0	5365.5	4562.1	3787.4	3148.4	2888.8	2901.7	2978.0	3013.7	3012.7	3011.7
30°	5765.8	5484.4	4424.4	3463.4	2823.4	2718.4	2796.7	2889.8	2938.4	2936.4	2937.4
32.5°	6052.1	5615.2	4237.2	3101.8	2588.7	2592.6	2682.8	2774.9	2831.4	2826.4	2827.4
35°	6386.9	5761.8	3983.5	2745.2	2433.1	2492.6	2563.9	2628.3	2681.8	2674.8	2667.9
37.5°	6751.5	5905.5	3646.7	2426.2	2306.3	2399.4	2458.9	2469.8	2494.5	2476.7	2463.8
40°	7098.3	6015.4	3212.8	2164.6	2178.5	2320.2	2358.8	2315.2	2270.6	2264.7	2246.9
42.5°	7400.4	6052.1	2773.9	1955.6	2043.8	2237.0	2260.7	2169.6	2089.4	2051.7	2035.9
45°	7719.4	6065.0	2364.8	1780.3	1914.0	2162.7	2188.4	2066.6	1953.6	1872.4	1845.6
47.5°	8136.5	6158.1	2046.8	1650.5	1814.9	2113.1	2149.8	1984.3	1837.7	1721.8	1697.0
50°	8682.4	6342.4	1788.2	1551.4	1750.5	2080.4	2122.0	1904.1	1742.6	1602.9	1578.2
52.5°	9288.7	6511.8	1579.2	1471.2	1688.1	2023.0	2086.4	1846.6	1653.5	1493.0	1466.2
55°	9712.7	6382.0	1410.7	1387.9	1606.9	1940.7	2036.8	1798.1	1525.7	1386.0	1362.2
57.5°	9793.9	5938.2	1282.9	1301.8	1508.8	1837.7	1960.6	1690.1	1456.3	1339.4	1314.6
60°	9572.0	5320.0	1187.8	1222.5	1403.8	1707.9	1817.9	1613.8	1389.9	1289.9	1269.1
62.5°	9014.2	4686.9	1117.5	1151.2	1305.7	1576.2	1728.7	1533.6	1322.6	1233.4	1212.6
65°	7887.8	3935.0	1050.1	1087.8	1214.6	1462.2	1648.5	1459.3	1256.2	1187.8	1168.0
67.5°	5954.0	2947.3	986.7	1020.4	1133.3	1363.2	1561.3	1386.0	1191.8	1148.2	1124.4
70°	3506.0	1845.6	914.4	950.1	1048.1	1260.1	1468.2	1305.7	1111.5	1091.7	1061.0
72.5°	1631.7	1110.6	832.2	866.8	941.1	1122.4	1348.3	1200.7	1016.4	972.9	931.2
75°	973.8	812.4	735.1	765.8	818.3	975.8	1197.7	1093.7	926.3	868.8	825.2
77.5°	728.2	621.2	628.1	660.8	703.4	854.0	1061.0	1009.5	856.9	812.4	782.6
80°	524.1	471.6	512.2	547.8	592.4	776.7	1016.4	933.2	774.7	715.3	687.5
82.5°	349.7	338.8	385.4	422.0	465.6	679.6	955.0	817.3	661.8	586.5	525.1
85°	193.2	204.1	259.6	275.4	313.1	478.5	782.6	656.8	498.3	401.2	383.4
87.5°	80.2	94.1	139.7	134.7	166.4	285.3	515.2	396.3	317.0	236.8	184.3
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)