

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: P646810

Luminaire Tested: **GALN-SA2C-835-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA 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: 11045.8 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

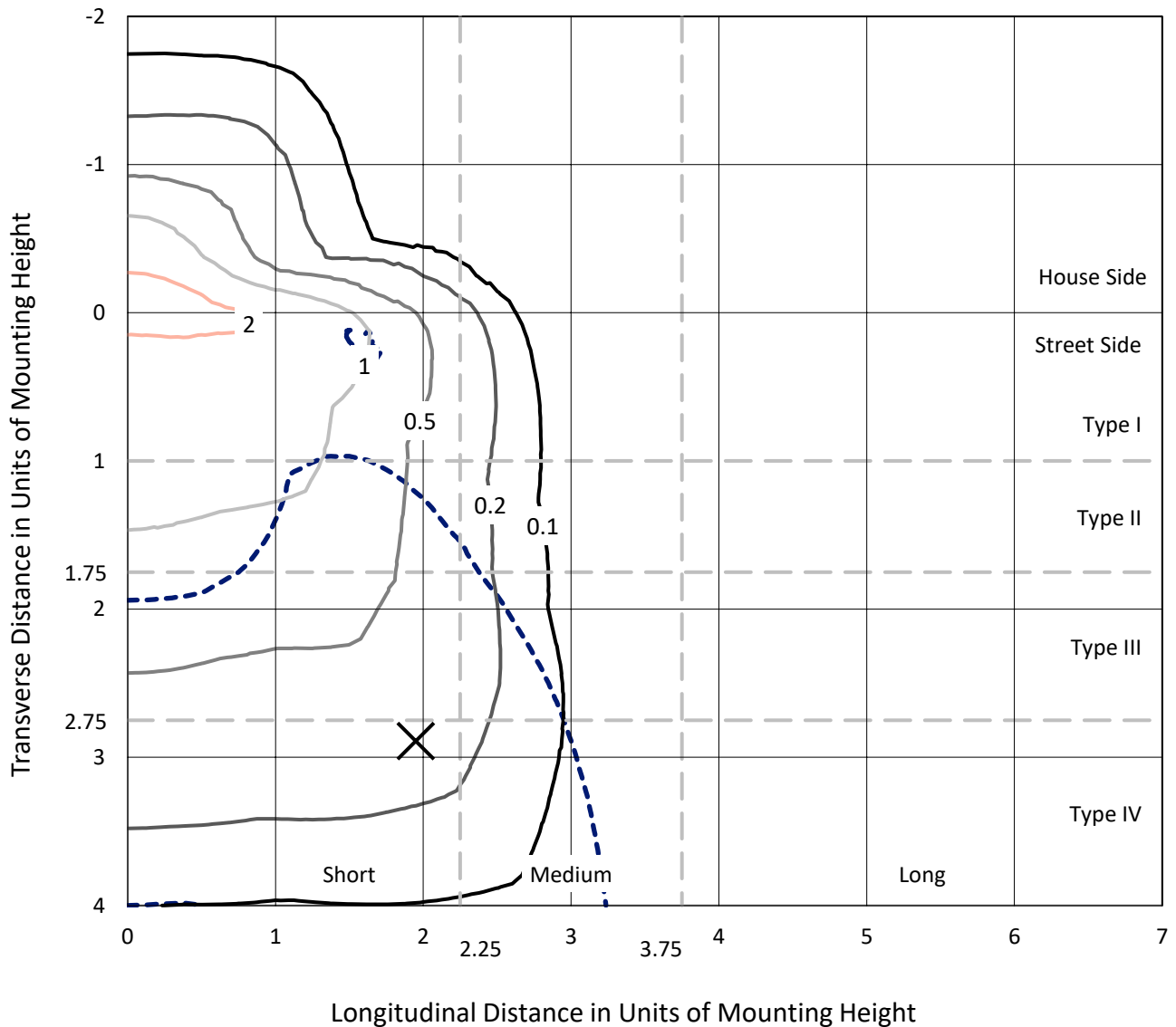
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

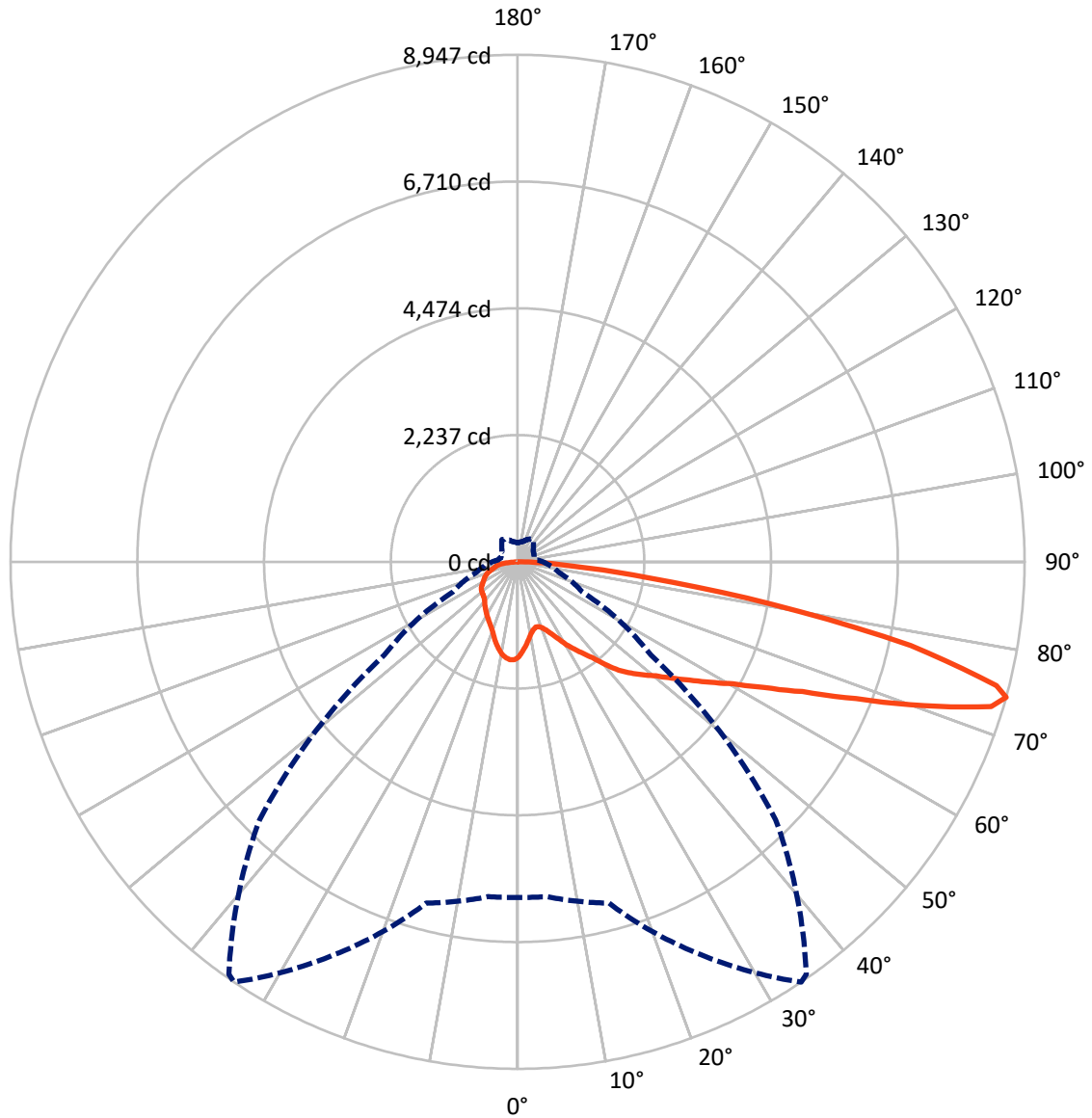
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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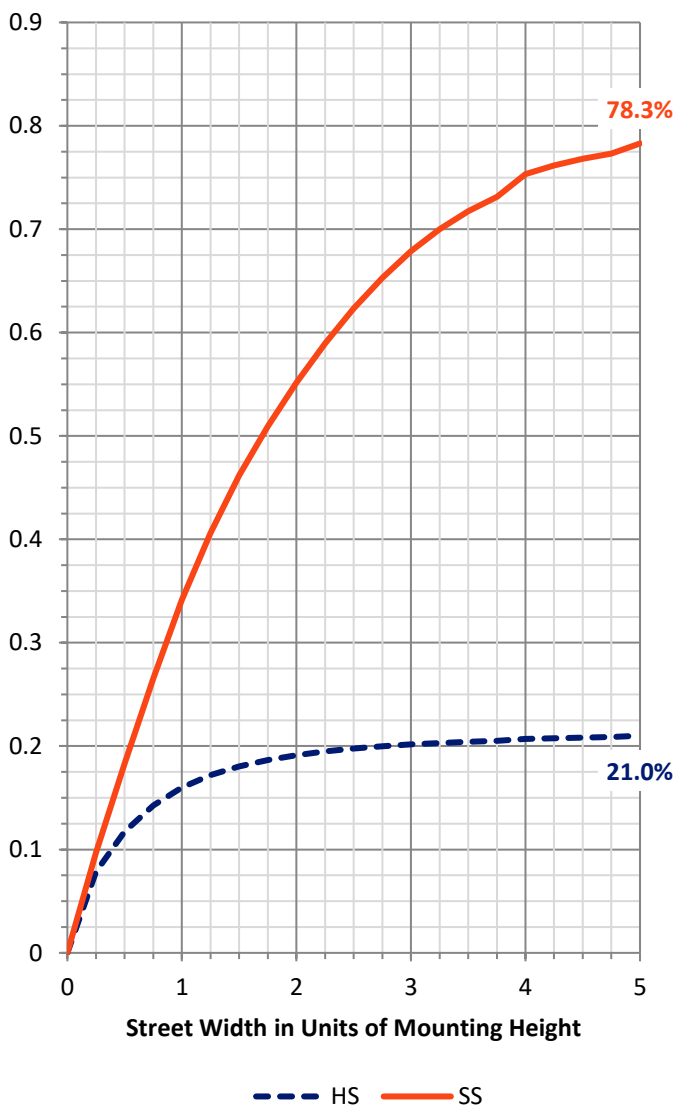
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2350.6	0.0	2350.6
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	8695.1	0.0	8695.1
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	11045.8	0.0	11045.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.4	1.4
10°-20°	419.9	3.8
20°-30°	692.2	6.3
30°-40°	1036.9	9.4
40°-50°	1507.4	13.6
50°-60°	2105.4	19.1
60°-70°	2635.9	23.9
70°-80°	2179.7	19.7
80°-90°	315.0	2.9
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°	11045.8	100.0
0°-180°	11045.8	100.0

**Coefficient of Utilization**

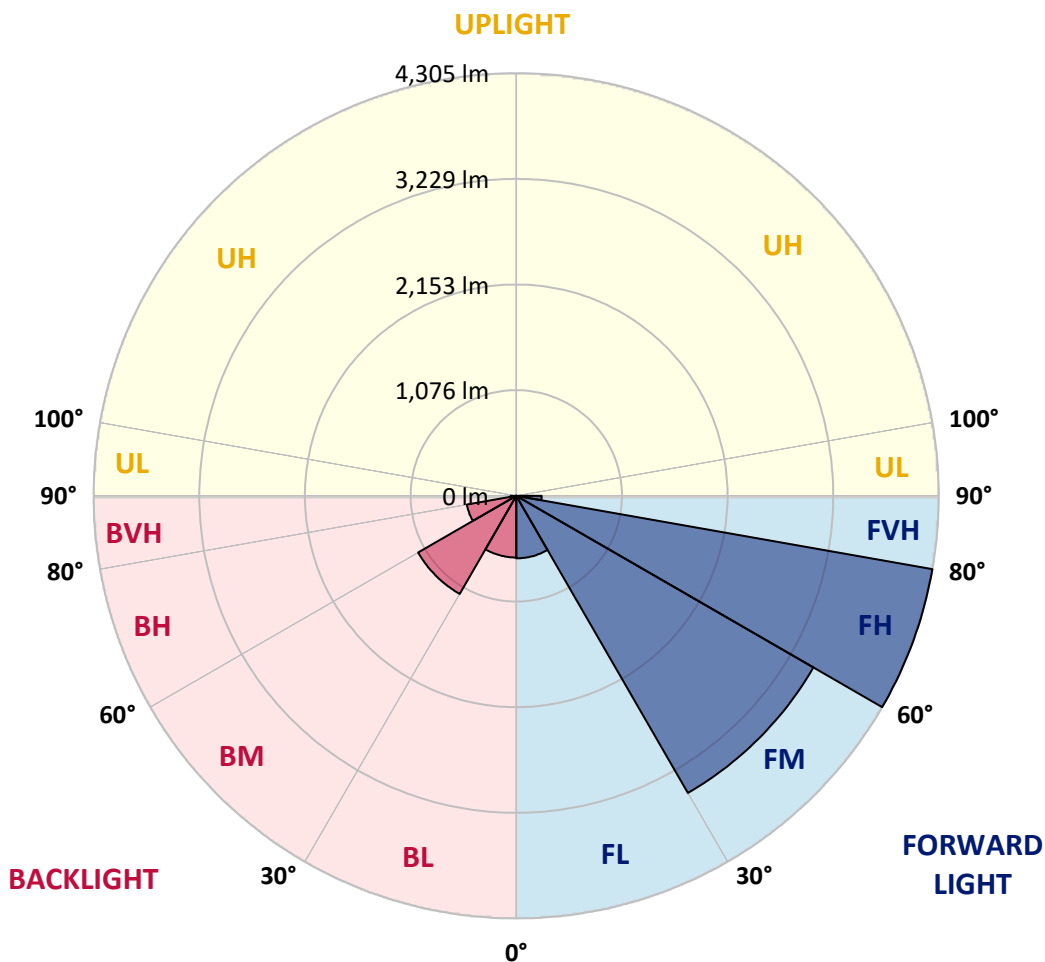


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.7	5.8			
FM (30°-60°)	3495.3	31.6			
FH (60°-80°)	4305.1	39.0			G2/5000
FVH (80°-90°)	258.0	2.3			G3/500
BL (0°-30°)	628.8	5.7	B2/1000		
BM (30°-60°)	1154.4	10.5	B2/2500		
BH (60°-80°)	510.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	56.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5
2.5°	1558.6	1566.5	1570.9	1586.1	1589.8	1594.7	1607.5	1624.6	1646.7	1666.3	1683.4
5°	1428.8	1441.1	1448.4	1461.9	1488.2	1490.7	1524.9	1564.1	1608.8	1650.4	1684.6
7.5°	1305.9	1319.3	1325.5	1349.9	1384.8	1390.3	1440.5	1502.3	1577.0	1640.0	1692.6
10°	1213.4	1220.1	1233.6	1252.0	1293.6	1297.3	1362.7	1445.3	1542.0	1635.1	1706.1
12.5°	1163.3	1167.0	1170.0	1189.6	1230.6	1236.1	1304.6	1398.3	1514.6	1638.7	1728.1
15°	1170.6	1171.8	1158.4	1162.1	1195.1	1203.1	1271.0	1367.0	1497.4	1647.9	1761.1
17.5°	1232.4	1228.1	1195.1	1177.9	1201.2	1204.9	1264.2	1354.8	1489.4	1665.0	1795.4
20°	1329.7	1323.6	1266.7	1228.8	1242.2	1245.3	1286.2	1364.0	1497.4	1693.2	1848.7
22.5°	1450.9	1448.4	1362.2	1316.2	1315.7	1315.7	1337.1	1397.0	1521.3	1731.8	1904.3
25°	1620.4	1607.5	1494.9	1435.6	1419.0	1417.9	1415.4	1451.5	1551.8	1772.8	1970.4
27.5°	1794.2	1772.2	1671.8	1580.6	1545.1	1540.9	1524.9	1528.6	1591.0	1819.2	2045.7
30°	1950.2	1936.1	1841.9	1740.9	1698.7	1688.9	1644.8	1624.6	1656.5	1903.1	2165.6
32.5°	2069.5	2060.9	1987.6	1895.7	1833.3	1831.5	1767.2	1750.7	1758.7	2004.6	2302.6
35°	2166.2	2169.3	2132.0	2052.4	1980.8	1970.4	1927.6	1906.8	1883.5	2151.5	2475.2
37.5°	2298.4	2305.2	2302.6	2234.1	2146.7	2149.1	2139.3	2105.0	2043.2	2315.6	2666.7
40°	2444.1	2448.9	2448.3	2422.0	2376.1	2378.6	2374.9	2335.7	2243.3	2524.2	2879.7
42.5°	2645.4	2622.1	2561.5	2587.8	2614.8	2626.4	2651.5	2614.1	2487.5	2746.9	3079.9
45°	2870.6	2826.5	2689.4	2701.7	2801.4	2823.4	2961.7	2910.3	2752.5	3002.7	3315.5
47.5°	3012.5	2969.1	2853.4	2851.0	2983.2	3004.5	3249.4	3230.3	2993.6	3278.7	3603.1
50°	3139.2	3133.1	3002.7	3034.0	3163.1	3194.9	3562.6	3544.9	3234.0	3604.2	3916.3
52.5°	3327.0	3277.5	3173.4	3237.7	3408.4	3450.1	3873.5	3821.5	3454.9	3891.8	4220.4
55°	3411.5	3399.9	3393.8	3449.4	3683.8	3713.8	4175.8	4056.5	3643.5	4135.4	4451.7
57.5°	3637.3	3615.9	3676.5	3714.4	4008.1	4054.0	4491.5	4301.9	3808.7	4328.7	4564.3
60°	3929.8	3918.2	3973.9	4042.4	4370.4	4440.2	4851.4	4511.1	3941.4	4426.1	4502.6
62.5°	4366.7	4365.5	4355.1	4501.9	4883.8	4948.0	5264.4	4714.9	3962.2	4353.2	4183.1
65°	4993.3	4971.3	4880.8	5041.0	5522.7	5597.9	5694.6	4828.7	3836.8	3979.4	3522.2
67.5°	5648.7	5647.5	5574.0	5782.1	6439.9	6517.6	6232.4	4803.6	3488.6	3223.6	2501.5
70°	6192.1	6165.8	6259.4	6813.8	7611.8	7701.7	6703.0	4508.0	2778.8	2128.9	1486.4
72.5°	6322.4	6323.7	6518.2	7609.4	8737.1	8751.2	6872.5	3653.8	1859.6	1174.3	743.5
74°	5921.0	5931.4	6233.1	7649.1	8947.0	8883.4	6439.3	2871.8	1257.5	766.7	536.0
75°	5404.6	5339.0	5775.4	7384.2	8729.1	8660.6	5932.0	2304.5	959.5	612.5	469.3
77.5°	2889.5	2956.2	3629.4	5510.4	7091.6	7012.7	4022.2	1105.1	518.3	426.5	337.8
80°	1028.6	1134.5	1594.7	2883.4	4546.6	4571.1	1919.6	506.7	364.7	314.5	238.7
82.5°	419.8	431.4	684.7	1279.6	2308.8	2330.8	783.9	301.1	260.7	216.7	142.6
85°	164.0	168.9	302.9	575.2	985.2	1049.5	271.1	159.1	160.4	124.2	72.8
87.5°	55.0	62.4	124.2	191.5	334.7	328.0	78.9	47.1	57.6	53.9	22.6
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°	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5
2.5°	1692.0	1703.6	1711.6	1720.1	1728.1	1730.5	1728.7	1734.2	1734.8	1735.4	1736.1
5°	1701.8	1717.7	1733.0	1741.5	1745.2	1742.2	1731.8	1726.3	1721.3	1717.7	1718.9
7.5°	1715.2	1737.9	1752.0	1755.6	1745.9	1731.8	1706.1	1685.9	1673.0	1664.4	1663.8
10°	1736.1	1758.1	1769.7	1759.3	1732.4	1698.1	1657.7	1619.8	1591.0	1582.4	1581.8
12.5°	1762.4	1787.4	1786.8	1756.3	1709.1	1647.9	1582.4	1538.4	1499.2	1479.6	1487.6
15°	1796.6	1815.6	1797.8	1742.8	1668.1	1584.2	1503.5	1443.5	1399.5	1378.7	1379.9
17.5°	1836.4	1852.9	1805.8	1718.9	1610.6	1502.9	1409.2	1352.4	1317.5	1302.2	1301.0
20°	1885.9	1890.9	1805.8	1677.3	1536.6	1408.1	1318.7	1279.0	1259.4	1251.4	1253.8
22.5°	1939.2	1929.4	1796.0	1618.5	1439.2	1308.9	1249.0	1231.2	1221.4	1220.1	1221.4
25°	1999.2	1971.6	1775.8	1539.0	1337.7	1223.3	1188.4	1191.4	1193.3	1193.3	1197.5
27.5°	2072.6	2017.6	1742.2	1438.6	1219.0	1143.7	1133.9	1155.3	1165.1	1167.0	1170.0
30°	2169.3	2067.7	1686.5	1313.2	1118.0	1072.1	1089.2	1118.0	1129.0	1135.7	1134.5
32.5°	2284.3	2122.8	1611.2	1187.7	1036.6	1021.9	1042.7	1072.1	1084.3	1088.0	1083.1
35°	2419.5	2185.2	1512.1	1070.3	965.6	974.2	998.6	1007.9	1018.8	1018.8	1021.3
37.5°	2565.2	2235.4	1390.9	962.5	910.6	941.8	959.5	951.0	946.0	939.9	943.0
40°	2713.3	2272.7	1233.6	856.1	855.5	908.1	913.0	888.5	869.0	862.8	859.7
42.5°	2842.4	2296.0	1091.7	773.4	803.4	875.1	878.8	839.5	808.4	790.0	783.9
45°	2994.7	2322.8	952.8	704.9	755.1	848.8	857.9	805.3	759.4	720.8	711.0
47.5°	3203.4	2384.1	843.2	651.7	720.2	832.3	845.1	777.1	716.6	666.4	658.4
50°	3439.0	2467.9	758.2	615.6	693.3	817.5	833.4	748.4	676.8	621.1	615.0
52.5°	3655.0	2513.2	684.7	583.2	667.0	790.6	818.2	727.6	637.6	575.8	570.3
55°	3773.1	2439.7	612.5	551.3	630.9	755.8	796.7	698.8	599.7	551.9	544.0
57.5°	3789.1	2288.0	547.1	517.1	593.0	712.9	756.9	663.9	575.2	535.4	528.7
60°	3666.1	2061.6	496.3	488.9	554.4	664.5	712.3	633.4	550.1	517.1	510.4
62.5°	3360.1	1815.6	460.8	463.2	515.2	613.8	679.3	604.0	526.3	496.9	490.8
65°	2833.8	1498.6	426.5	436.9	480.4	574.0	649.3	579.5	502.4	481.6	476.1
67.5°	1968.5	1081.9	398.4	409.4	447.3	533.6	614.3	553.2	475.4	464.5	455.9
70°	1089.9	665.8	365.3	378.2	413.0	488.4	575.2	513.4	436.3	431.4	419.1
72.5°	572.8	424.1	328.0	342.1	366.5	430.2	515.2	470.0	397.8	376.9	361.0
74°	447.3	347.6	302.9	317.6	334.1	395.9	479.7	438.7	370.2	345.8	333.5
75°	389.8	309.6	281.5	300.4	315.2	372.6	452.2	416.7	354.9	331.7	320.6
77.5°	275.4	231.9	230.1	252.8	260.7	326.7	407.6	379.4	316.3	291.9	281.5
80°	193.4	173.8	182.4	196.5	207.4	288.8	378.2	328.0	259.5	230.7	227.0
82.5°	126.1	113.8	130.4	143.2	146.9	213.0	305.4	249.1	189.1	153.6	142.6
85°	58.1	56.9	74.6	72.8	72.2	104.1	181.1	145.6	108.9	81.4	76.5
87.5°	14.7	14.1	18.3	15.3	18.3	15.9	16.5	4.3	0.6	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)