

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386557

Luminaire Tested: GAW-SA2B-727-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-727-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9477 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

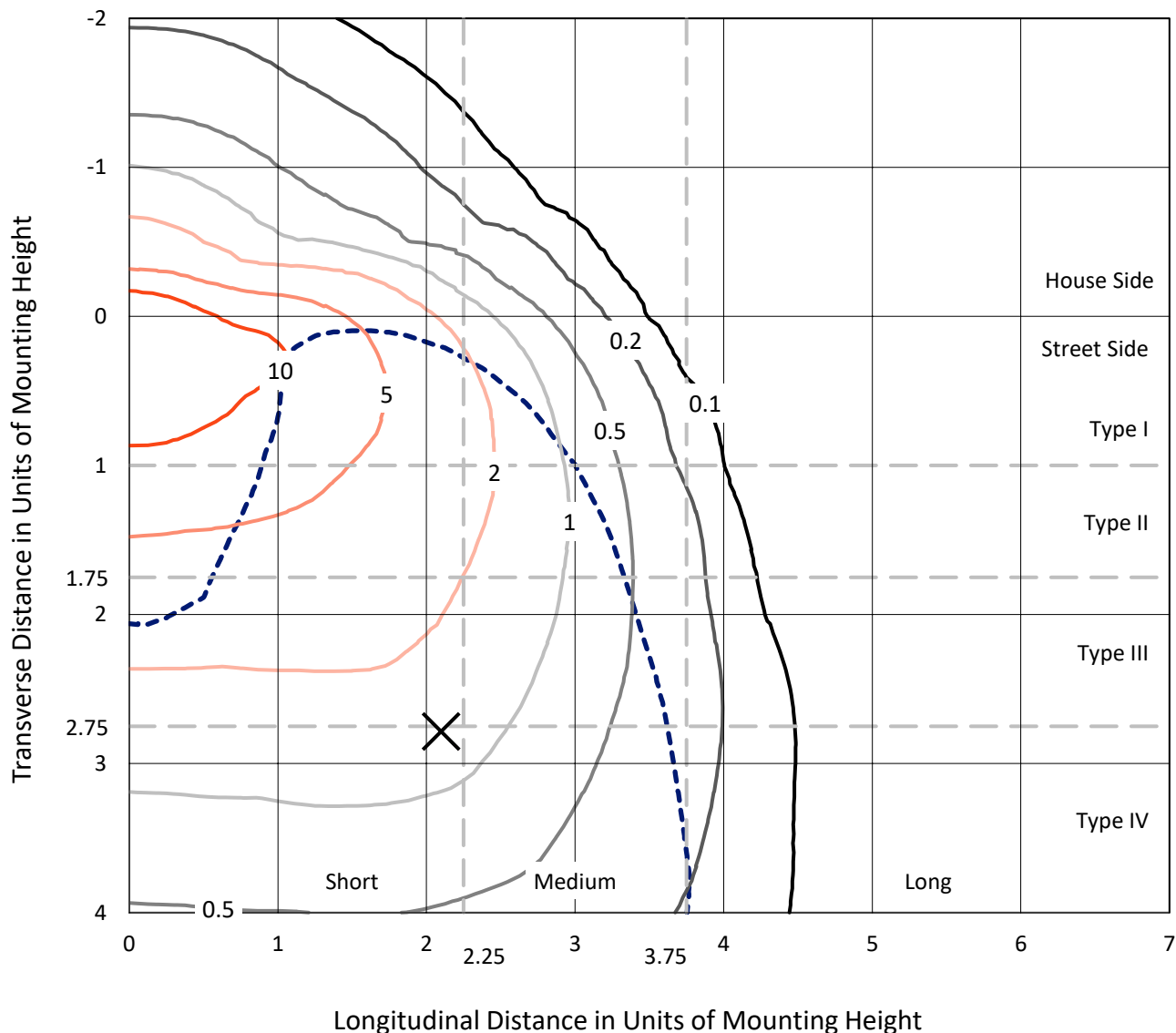
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

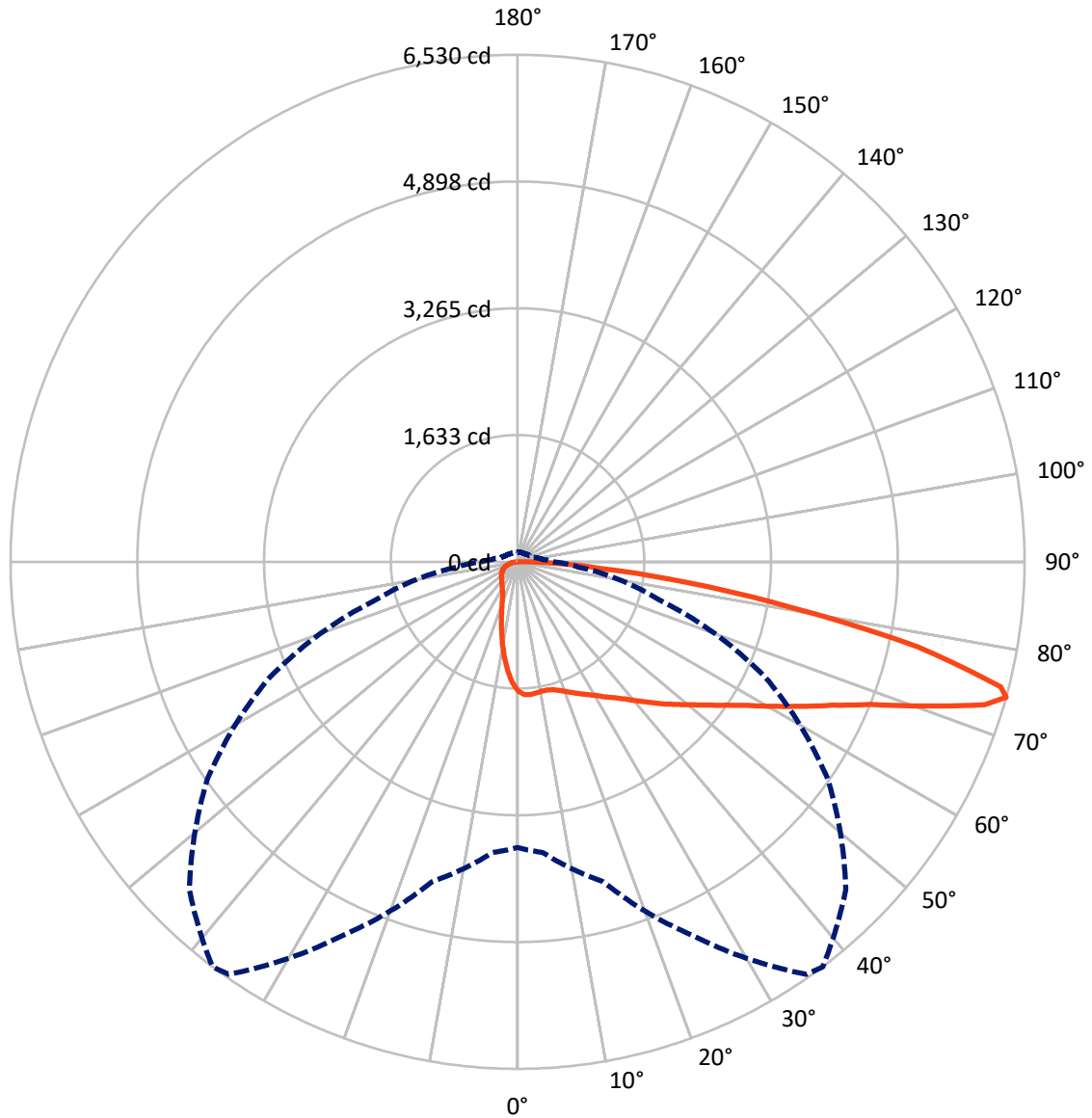
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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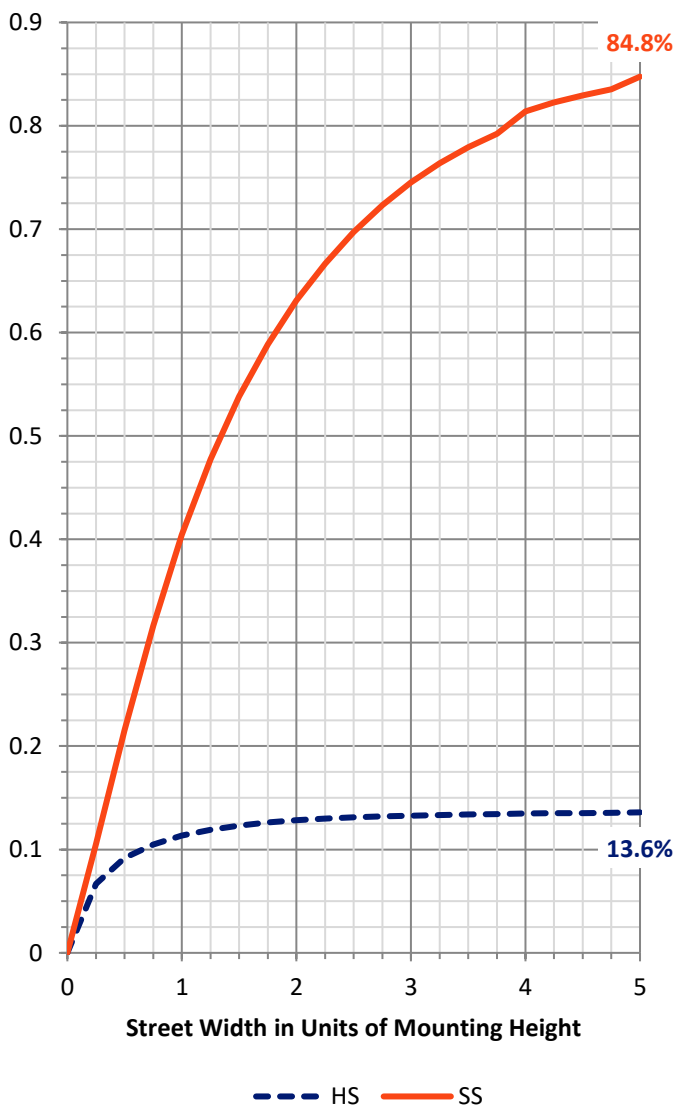
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1304.0	0.0	1304.0
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	8173.0	0.0	8173.0
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	9477.0	0.0	9477.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.0	1.6
10°-20°	376.9	4.0
20°-30°	580.8	6.1
30°-40°	844.5	8.9
40°-50°	1243.0	13.1
50°-60°	1745.5	18.4
60°-70°	2209.3	23.3
70°-80°	1945.4	20.5
80°-90°	384.6	4.1
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°	9477.0	100.0
0°-180°	9477.0	100.0

**Coefficient of Utilization**



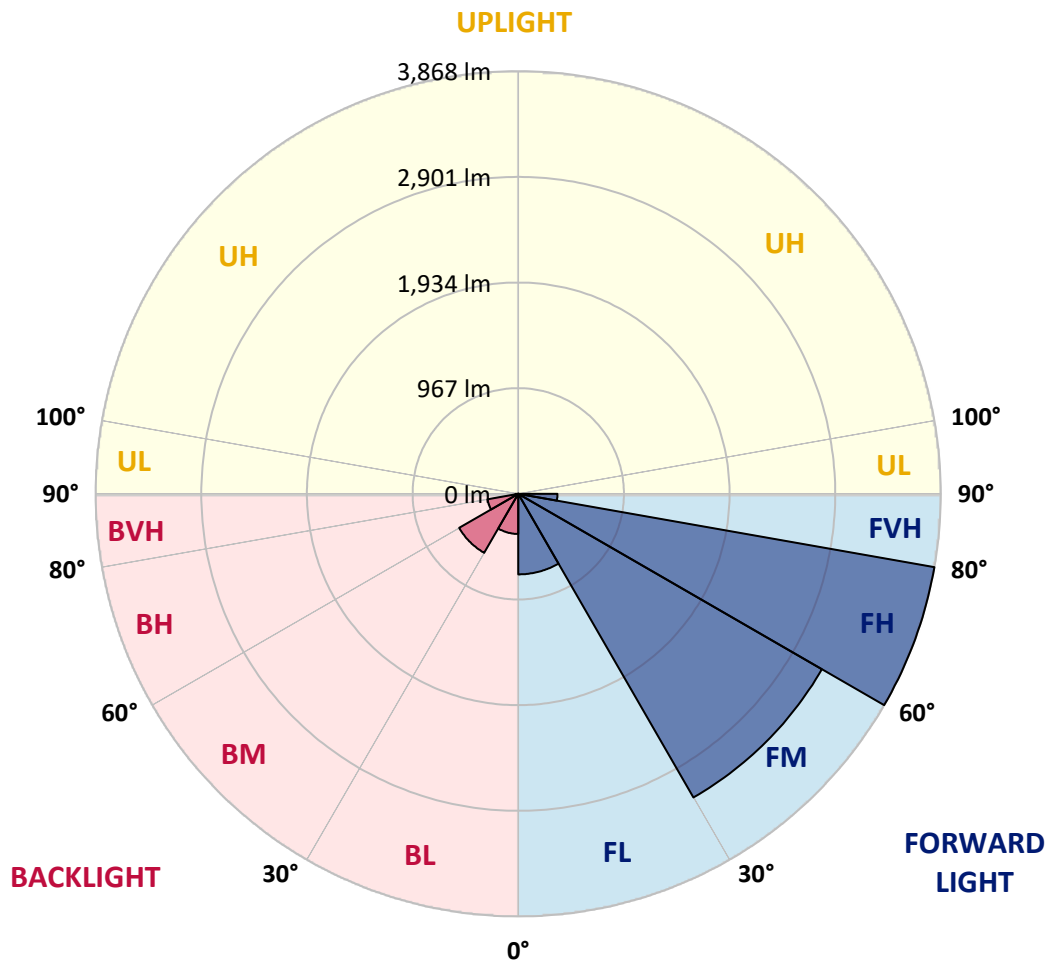
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 CATALOG NUMBER: GAW-SA2B-727-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.4	7.8			
FM (30°-60°)	3209.0	33.9			
FH (60°-80°)	3868.0	40.8			G2/5000
FVH (80°-90°)	358.6	3.8			G3/500
BL (0°-30°)	367.3	3.9	B1/500		
BM (30°-60°)	624.0	6.6	B1/1000		
BH (60°-80°)	286.6	3.0	B1/500		G1/500
BVH (80°-90°)	26.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8
2.5°	1726.9	1727.2	1726.9	1724.2	1717.9	1712.5	1708.2	1701.9	1687.8	1677.2	1661.1
5°	1743.3	1741.2	1739.9	1734.9	1724.9	1718.9	1710.5	1698.5	1675.5	1654.1	1628.1
7.5°	1735.6	1733.2	1730.2	1724.2	1712.9	1707.9	1696.2	1680.5	1652.8	1624.7	1587.4
10°	1711.9	1711.2	1709.9	1708.5	1698.9	1694.8	1684.2	1667.5	1640.1	1606.0	1562.3
12.5°	1685.5	1687.2	1692.5	1699.5	1695.2	1693.2	1686.5	1675.2	1647.1	1610.4	1557.6
15°	1668.8	1673.5	1687.8	1706.2	1709.9	1709.2	1707.5	1700.2	1670.5	1629.8	1568.3
17.5°	1663.1	1670.8	1698.2	1728.6	1739.2	1741.6	1742.3	1729.6	1696.5	1653.5	1579.3
20°	1673.5	1683.2	1723.2	1765.0	1782.0	1783.3	1780.3	1758.3	1721.2	1673.8	1585.4
22.5°	1704.9	1713.5	1763.6	1810.7	1830.0	1832.1	1823.0	1789.7	1747.3	1697.9	1593.7
25°	1765.3	1776.0	1826.0	1873.1	1883.1	1883.5	1870.4	1829.0	1781.3	1731.6	1611.7
27.5°	1844.1	1854.8	1899.8	1945.9	1940.5	1937.5	1919.8	1878.5	1825.7	1778.0	1643.8
30°	1931.9	1943.6	1986.3	2019.0	2006.3	2000.3	1985.9	1932.5	1887.5	1841.4	1692.8
32.5°	2022.7	2033.4	2070.7	2093.1	2077.1	2074.4	2052.7	2004.0	1967.9	1938.2	1772.3
35°	2115.8	2123.5	2160.2	2172.9	2151.5	2150.9	2144.8	2100.1	2077.4	2091.4	1887.8
37.5°	2210.9	2212.9	2244.3	2245.0	2238.7	2241.3	2247.7	2219.6	2226.0	2269.7	2038.0
40°	2295.7	2301.1	2323.8	2330.8	2341.8	2351.2	2382.9	2364.5	2413.6	2491.0	2225.0
42.5°	2358.5	2368.8	2405.2	2423.3	2459.0	2473.7	2518.4	2535.4	2634.2	2750.4	2447.3
45°	2411.6	2427.6	2486.0	2523.1	2583.5	2609.2	2673.3	2730.4	2883.6	3031.8	2681.3
47.5°	2469.0	2489.4	2562.5	2633.2	2715.4	2744.4	2860.9	2946.4	3149.7	3314.9	2902.0
50°	2553.5	2569.1	2640.6	2751.7	2854.2	2891.6	3052.9	3175.4	3420.1	3584.7	3093.3
52.5°	2671.3	2665.3	2725.7	2881.6	3019.1	3065.2	3257.8	3419.1	3694.1	3828.7	3254.8
55°	2789.8	2779.8	2822.2	3017.5	3211.4	3259.8	3483.5	3663.8	3954.9	4048.3	3378.7
57.5°	2921.7	2902.6	2938.4	3170.7	3430.4	3488.2	3736.2	3923.8	4211.2	4225.9	3457.5
60°	3057.5	3031.8	3071.9	3360.7	3708.5	3776.6	4032.0	4177.5	4452.9	4368.1	3482.8
62.5°	3176.4	3158.4	3220.1	3572.6	4022.0	4096.7	4322.4	4447.3	4691.3	4427.2	3391.4
65°	3280.2	3283.2	3390.0	3811.0	4371.5	4451.3	4655.6	4779.8	4878.9	4392.2	3177.4
67.5°	3404.1	3421.1	3603.3	4124.8	4811.5	4898.9	5140.3	5142.3	4983.7	4186.5	2756.1
70°	3584.7	3619.7	3896.8	4560.1	5437.1	5557.2	5743.5	5355.3	4836.5	3629.1	2168.6
72.5°	3744.9	3810.3	4208.9	5058.2	6199.5	6290.7	6096.4	5232.4	4221.3	2719.7	1351.0
74°	3679.8	3760.9	4265.7	5303.5	6486.6	6530.4	5977.2	4873.9	3519.6	1883.5	785.2
75°	3539.6	3627.7	4182.9	5301.2	6450.2	6425.9	5689.4	4464.3	2898.6	1284.6	522.4
77.5°	2856.6	2949.7	3524.6	4543.4	5288.8	5265.8	4370.5	2994.8	1269.6	421.3	265.4
80°	1660.8	1731.9	2187.9	2885.3	3566.3	3608.0	2874.3	1481.9	499.4	236.7	179.9
82.5°	737.8	786.8	1056.9	1472.9	2152.2	2205.9	1505.2	776.5	308.5	143.9	108.2
85°	484.1	520.4	641.6	701.4	1024.9	1061.6	736.8	604.6	203.6	79.1	79.5
87.5°	348.2	383.2	476.7	416.3	470.4	445.3	400.9	559.5	81.8	45.1	26.7
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°	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8
2.5°	1654.1	1648.8	1636.8	1614.1	1601.4	1590.7	1573.0	1562.7	1558.0	1557.6	1559.6
5°	1613.1	1600.7	1569.7	1531.6	1501.2	1473.5	1439.1	1418.4	1403.7	1395.1	1397.4
7.5°	1565.3	1546.0	1497.2	1436.5	1387.7	1334.0	1280.9	1249.2	1224.5	1206.1	1209.5
10°	1532.6	1505.9	1434.8	1347.3	1266.2	1188.1	1115.0	1071.3	1036.5	1009.8	1011.8
12.5°	1521.6	1485.5	1387.1	1270.2	1156.4	1049.6	954.1	887.0	851.3	820.9	823.2
15°	1523.3	1474.9	1347.0	1200.8	1057.6	923.0	807.2	728.7	680.3	659.3	659.6
17.5°	1524.6	1462.5	1304.9	1126.3	959.8	804.9	679.0	599.6	553.8	534.5	534.8
20°	1520.3	1442.5	1252.9	1040.9	857.6	696.4	574.5	507.1	472.4	457.3	457.3
22.5°	1514.6	1418.8	1194.1	955.1	756.8	602.2	499.7	448.3	428.3	418.3	418.0
25°	1517.3	1401.1	1134.0	867.0	664.0	527.1	450.0	416.0	402.6	396.3	395.9
27.5°	1531.6	1392.7	1078.6	779.2	582.9	470.7	416.6	392.6	383.9	379.9	379.9
30°	1557.6	1392.7	1020.8	704.4	515.4	429.0	390.9	374.6	368.5	365.9	365.9
32.5°	1603.0	1400.4	965.1	630.3	461.7	396.3	369.5	358.5	353.9	352.5	352.5
35°	1681.2	1426.4	910.7	560.2	418.3	369.5	349.2	342.8	339.5	339.2	340.2
37.5°	1791.0	1479.5	859.6	508.4	387.6	347.8	332.2	327.2	325.1	326.8	328.2
40°	1929.2	1551.6	813.2	461.7	364.2	330.5	316.5	313.1	312.1	314.5	316.5
42.5°	2096.1	1649.1	775.2	428.0	346.2	315.8	303.1	299.1	298.1	300.8	303.5
45°	2276.7	1753.9	748.4	402.9	332.2	304.8	291.4	287.1	285.1	286.4	289.4
47.5°	2441.0	1853.1	737.8	385.2	318.8	295.4	281.1	275.7	272.4	271.7	274.1
50°	2579.5	1926.9	742.8	374.6	308.1	285.1	271.1	265.1	260.1	257.0	258.7
52.5°	2680.3	1973.3	747.4	369.9	299.8	273.7	260.1	254.4	247.7	242.7	242.7
55°	2753.4	1983.9	737.1	366.2	293.4	261.4	247.7	242.4	235.7	230.0	229.3
57.5°	2782.1	1953.9	698.7	360.9	289.1	249.7	234.7	230.7	225.0	218.3	218.0
60°	2743.4	1861.1	624.6	349.5	283.4	240.0	221.7	219.0	216.3	210.0	209.6
62.5°	2587.8	1657.5	528.8	326.5	272.1	229.7	209.6	211.0	211.3	207.0	206.3
65°	2305.8	1377.7	435.3	296.4	255.0	217.3	197.3	203.6	207.3	206.6	205.6
67.5°	1895.8	1072.3	368.9	264.7	232.7	200.3	183.9	191.3	194.3	196.6	196.0
70°	1407.1	756.1	305.1	231.3	205.6	180.3	166.6	170.3	168.2	170.9	171.9
72.5°	784.5	453.7	248.7	198.0	177.6	156.9	147.2	146.6	142.2	142.2	142.2
74°	470.7	332.8	218.7	177.3	160.6	141.5	133.2	130.2	126.2	126.5	126.2
75°	378.6	286.1	200.6	163.6	148.6	132.5	124.2	120.2	117.2	117.2	116.8
77.5°	239.0	217.3	161.6	130.2	118.8	109.2	103.5	98.1	98.1	97.8	97.5
80°	180.6	172.9	125.9	98.5	91.1	83.8	80.1	77.8	77.8	78.8	78.4
82.5°	123.9	130.2	88.5	68.8	65.1	59.8	59.1	59.4	58.4	57.1	56.8
85°	90.5	97.8	59.8	43.4	39.7	36.4	39.1	40.4	38.7	35.7	34.4
87.5°	34.7	64.1	32.0	18.0	16.7	14.4	16.7	17.4	18.7	14.7	15.0
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)