

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: P386361

Luminaire Tested: GAW-SA2A-730-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386361  
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-SA2A-730-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 615mA 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: 8414 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

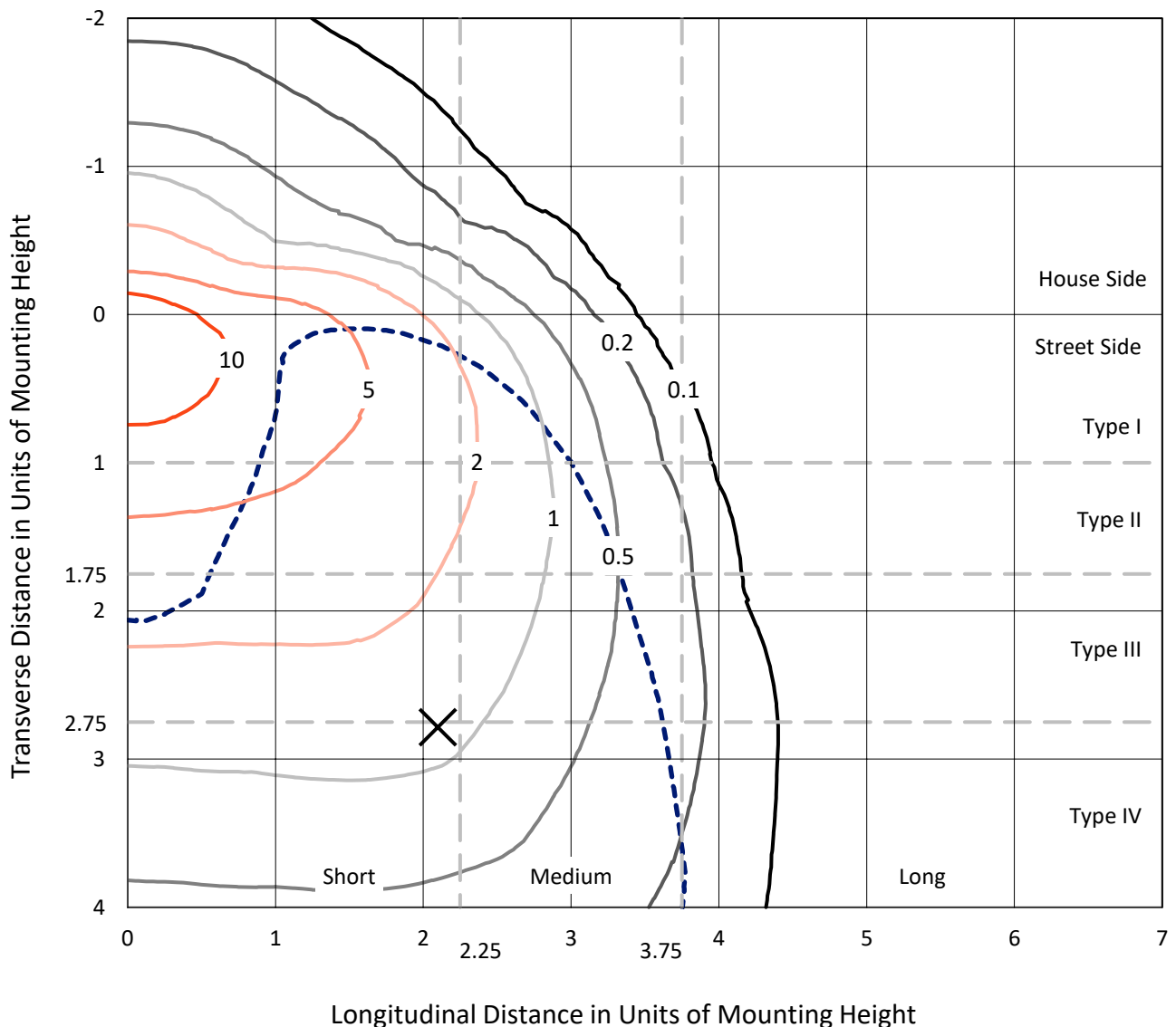
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

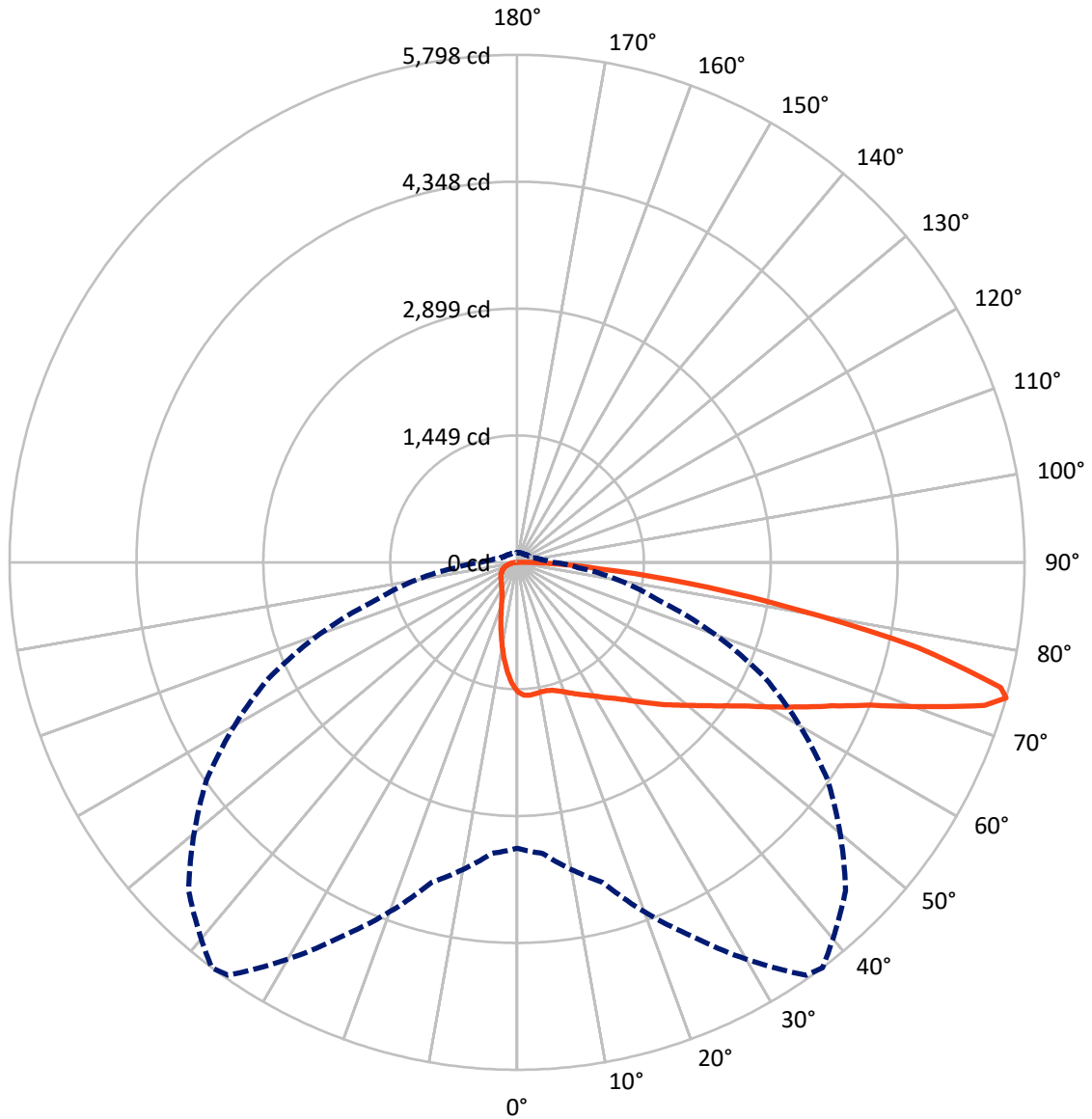
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 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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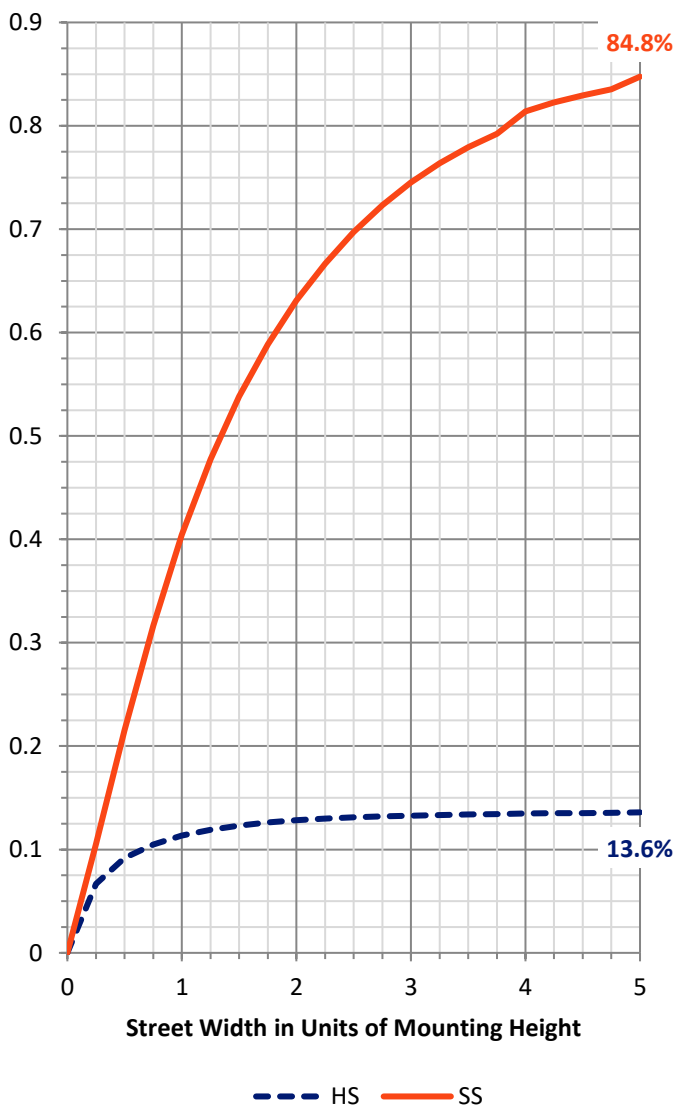
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1157.7	0.0	1157.7
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	7256.3	0.0	7256.3
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	8414.0	0.0	8414.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.6	1.6
10°-20°	334.6	4.0
20°-30°	515.6	6.1
30°-40°	749.8	8.9
40°-50°	1103.5	13.1
50°-60°	1549.7	18.4
60°-70°	1961.5	23.3
70°-80°	1727.2	20.5
80°-90°	341.5	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°	8414.0	100.0
0°-180°	8414.0	100.0

**Coefficient of Utilization**



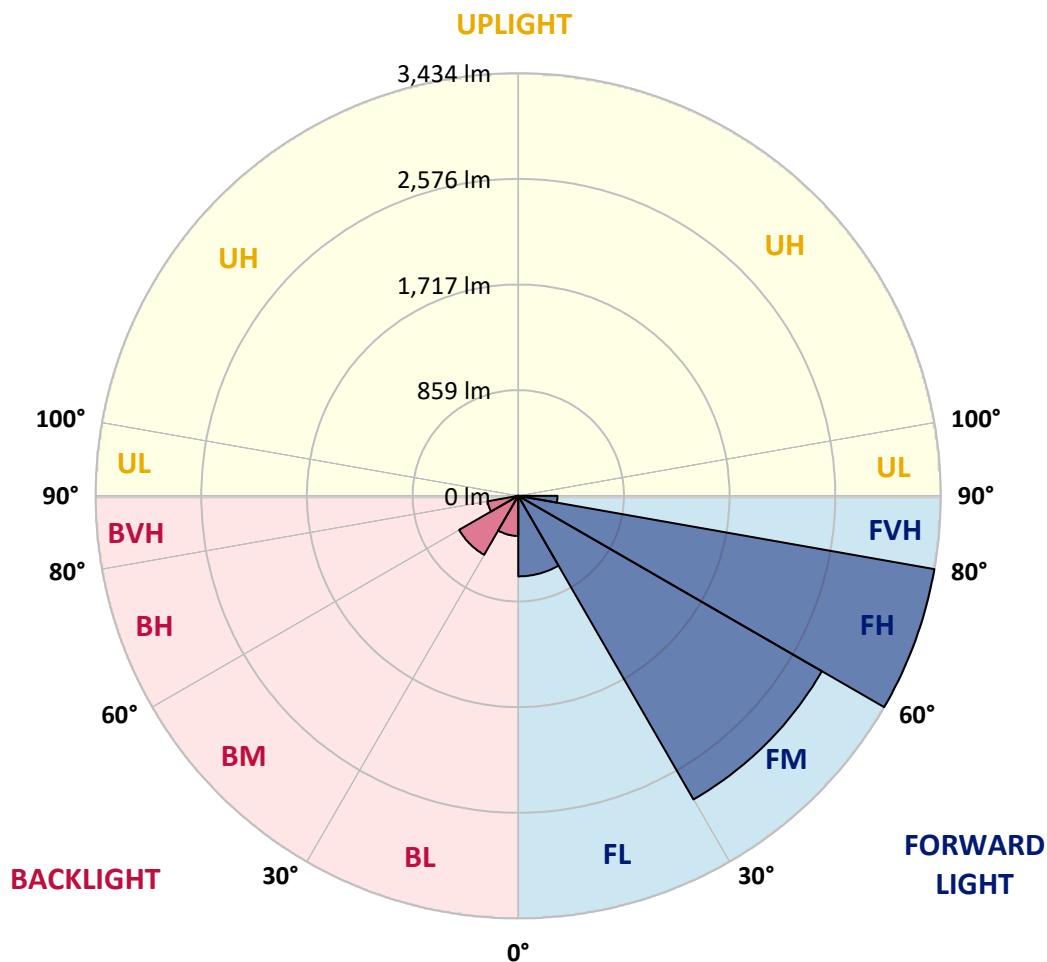
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.7	7.8			
FM (30°-60°)	2849.1	33.9			
FH (60°-80°)	3434.2	40.8			G2/5000
FVH (80°-90°)	318.4	3.8			G3/500
BL (0°-30°)	326.1	3.9	B1/500		
BM (30°-60°)	554.0	6.6	B1/1000		
BH (60°-80°)	254.5	3.0	B1/500		G1/500
BVH (80°-90°)	23.1	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°	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1533.2	1533.5	1533.2	1530.8	1525.2	1520.5	1516.6	1511.0	1498.5	1489.0	1474.8
5°	1547.7	1545.9	1544.8	1540.3	1531.4	1526.1	1518.7	1508.0	1487.6	1468.6	1445.5
7.5°	1540.9	1538.8	1536.2	1530.8	1520.7	1516.3	1505.9	1492.0	1467.4	1442.5	1409.3
10°	1519.9	1519.3	1518.1	1516.9	1508.3	1504.7	1495.3	1480.4	1456.1	1425.9	1387.1
12.5°	1496.4	1497.9	1502.7	1508.9	1505.0	1503.3	1497.3	1487.3	1462.4	1429.8	1382.9
15°	1481.6	1485.8	1498.5	1514.8	1518.1	1517.5	1516.0	1509.5	1483.1	1446.9	1392.4
17.5°	1476.6	1483.4	1507.7	1534.7	1544.2	1546.2	1546.8	1535.6	1506.2	1468.0	1402.2
20°	1485.8	1494.4	1529.9	1567.0	1582.1	1583.3	1580.6	1561.1	1528.2	1486.1	1407.5
22.5°	1513.6	1521.3	1565.8	1607.6	1624.8	1626.6	1618.6	1588.9	1551.3	1507.4	1414.9
25°	1567.3	1576.8	1621.2	1663.0	1671.9	1672.2	1660.6	1623.9	1581.5	1537.3	1430.9
27.5°	1637.2	1646.7	1686.7	1727.6	1722.9	1720.2	1704.5	1667.8	1620.9	1578.5	1459.4
30°	1715.2	1725.5	1763.5	1792.5	1781.3	1775.9	1763.2	1715.8	1675.8	1634.9	1503.0
32.5°	1795.8	1805.3	1838.5	1858.3	1844.1	1841.7	1822.5	1779.2	1747.2	1720.8	1573.5
35°	1878.5	1885.3	1917.9	1929.2	1910.2	1909.6	1904.3	1864.6	1844.4	1856.8	1676.1
37.5°	1963.0	1964.7	1992.6	1993.2	1987.6	1989.9	1995.6	1970.7	1976.3	2015.1	1809.4
40°	2038.2	2043.0	2063.1	2069.4	2079.1	2087.4	2115.6	2099.3	2142.9	2211.6	1975.4
42.5°	2094.0	2103.1	2135.4	2151.5	2183.2	2196.2	2235.9	2251.0	2338.8	2441.9	2172.8
45°	2141.1	2155.3	2207.2	2240.1	2293.7	2316.5	2373.4	2424.1	2560.2	2691.8	2380.6
47.5°	2192.1	2210.1	2275.0	2337.9	2410.8	2436.6	2540.0	2615.9	2796.4	2943.1	2576.5
50°	2267.0	2281.0	2344.4	2443.1	2534.1	2567.3	2710.4	2819.2	3036.5	3182.6	2746.3
52.5°	2371.7	2366.3	2420.0	2558.4	2680.5	2721.4	2892.4	3035.6	3279.8	3399.2	2889.7
55°	2476.9	2468.0	2505.6	2679.0	2851.2	2894.2	3092.8	3252.8	3511.3	3594.3	2999.7
57.5°	2594.0	2577.1	2608.8	2815.1	3045.6	3096.9	3317.1	3483.7	3738.9	3751.9	3069.7
60°	2714.6	2691.8	2727.3	2983.7	3292.5	3353.0	3579.7	3709.0	3953.5	3878.2	3092.2
62.5°	2820.1	2804.1	2858.9	3171.9	3570.8	3637.2	3837.6	3948.4	4165.1	3930.6	3011.0
65°	2912.3	2914.9	3009.8	3383.5	3881.2	3952.0	4133.4	4243.6	4331.7	3899.5	2821.0
67.5°	3022.2	3037.3	3199.2	3662.1	4271.8	4349.4	4563.7	4565.5	4424.7	3717.0	2446.9
70°	3182.6	3213.7	3459.7	4048.6	4827.2	4933.9	5099.3	4754.6	4294.0	3222.0	1925.3
72.5°	3324.8	3382.9	3736.8	4490.8	5504.2	5585.1	5412.6	4645.5	3747.8	2414.6	1199.5
74°	3267.0	3339.1	3787.2	4708.7	5759.0	5797.9	5306.8	4327.2	3124.8	1672.2	697.1
75°	3142.6	3220.8	3713.7	4706.6	5726.7	5705.1	5051.3	3963.5	2573.5	1140.5	463.8
77.5°	2536.2	2618.9	3129.2	4033.8	4695.6	4675.2	3880.3	2658.9	1127.1	374.0	235.6
80°	1474.5	1537.6	1942.5	2561.6	3166.3	3203.3	2551.9	1315.6	443.4	210.1	159.8
82.5°	655.0	698.6	938.4	1307.6	1910.8	1958.5	1336.4	689.4	273.9	127.7	96.0
85°	429.8	462.1	569.7	622.7	909.9	942.5	654.1	536.8	180.8	70.2	70.5
87.5°	309.1	340.2	423.2	369.6	417.6	395.4	356.0	496.7	72.6	40.0	23.7
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°	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1468.6	1463.8	1453.2	1433.0	1421.8	1412.3	1396.6	1387.4	1383.2	1382.9	1384.7
5°	1432.1	1421.2	1393.6	1359.8	1332.8	1308.2	1277.7	1259.3	1246.3	1238.6	1240.7
7.5°	1389.7	1372.6	1329.3	1275.3	1232.1	1184.4	1137.2	1109.1	1087.1	1070.8	1073.8
10°	1360.7	1337.0	1273.9	1196.2	1124.2	1054.8	989.9	951.1	920.3	896.6	898.3
12.5°	1350.9	1318.9	1231.5	1127.7	1026.7	931.8	847.1	787.5	755.8	728.8	730.9
15°	1352.4	1309.4	1195.9	1066.1	938.9	819.5	716.7	647.0	604.0	585.4	585.7
17.5°	1353.6	1298.5	1158.6	1000.0	852.1	714.6	602.8	532.3	491.7	474.5	474.8
20°	1349.7	1280.7	1112.3	924.1	761.4	618.3	510.1	450.2	419.4	406.0	406.0
22.5°	1344.7	1259.6	1060.2	848.0	671.9	534.7	443.7	398.0	380.3	371.4	371.1
25°	1347.1	1243.9	1006.8	769.7	589.5	468.0	399.5	369.3	357.4	351.8	351.5
27.5°	1359.8	1236.5	957.6	691.8	517.5	417.9	369.9	348.5	340.8	337.3	337.3
30°	1382.9	1236.5	906.3	625.4	457.6	380.9	347.1	332.5	327.2	324.8	324.8
32.5°	1423.2	1243.3	856.8	559.6	409.9	351.8	328.1	318.3	314.2	313.0	313.0
35°	1492.6	1266.5	808.5	497.3	371.4	328.1	310.0	304.4	301.4	301.1	302.0
37.5°	1590.1	1313.6	763.2	451.4	344.1	308.8	294.9	290.5	288.7	290.2	291.3
40°	1712.8	1377.6	722.0	409.9	323.4	293.4	281.0	278.0	277.1	279.2	281.0
42.5°	1861.0	1464.1	688.2	380.0	307.4	280.4	269.1	265.6	264.7	267.0	269.4
45°	2021.3	1557.2	664.5	357.7	294.9	270.6	258.7	254.9	253.1	254.3	257.0
47.5°	2167.2	1645.2	655.0	342.0	283.0	262.3	249.6	244.8	241.8	241.3	243.3
50°	2290.2	1710.7	659.5	332.5	273.6	253.1	240.7	235.3	230.9	228.2	229.7
52.5°	2379.7	1751.9	663.6	328.4	266.2	243.0	230.9	225.8	219.9	215.5	215.5
55°	2444.6	1761.4	654.4	325.1	260.5	232.1	219.9	215.2	209.2	204.2	203.6
57.5°	2470.1	1734.7	620.3	320.4	256.7	221.7	208.4	204.8	199.8	193.8	193.5
60°	2435.7	1652.3	554.5	310.3	251.6	213.1	196.8	194.4	192.1	186.4	186.1
62.5°	2297.6	1471.5	469.5	289.9	241.6	203.9	186.1	187.3	187.6	183.8	183.2
65°	2047.1	1223.2	386.5	263.2	226.4	192.9	175.2	180.8	184.1	183.5	182.6
67.5°	1683.2	952.0	327.5	235.0	206.6	177.8	163.3	169.8	172.5	174.6	174.0
70°	1249.3	671.3	270.9	205.4	182.6	160.0	147.9	151.2	149.4	151.7	152.6
72.5°	696.5	402.8	220.8	175.8	157.7	139.3	130.7	130.1	126.3	126.3	126.3
74°	417.9	295.5	194.1	157.4	142.6	125.7	118.3	115.6	112.0	112.3	112.0
75°	336.1	254.0	178.1	145.2	131.9	117.7	110.3	106.7	104.0	104.0	103.7
77.5°	212.2	192.9	143.4	115.6	105.5	96.9	91.9	87.1	87.1	86.8	86.5
80°	160.3	153.5	111.7	87.4	80.9	74.4	71.1	69.1	69.1	69.9	69.7
82.5°	110.0	115.6	78.5	61.1	57.8	53.1	52.5	52.8	51.9	50.7	50.4
85°	80.3	86.8	53.1	38.5	35.3	32.3	34.7	35.9	34.4	31.7	30.5
87.5°	30.8	56.9	28.5	16.0	14.8	12.7	14.8	15.4	16.6	13.0	13.3
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)