

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: P385941

Luminaire Tested: GAW-SA1C-735-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385941  
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-SA1C-735-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6743 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

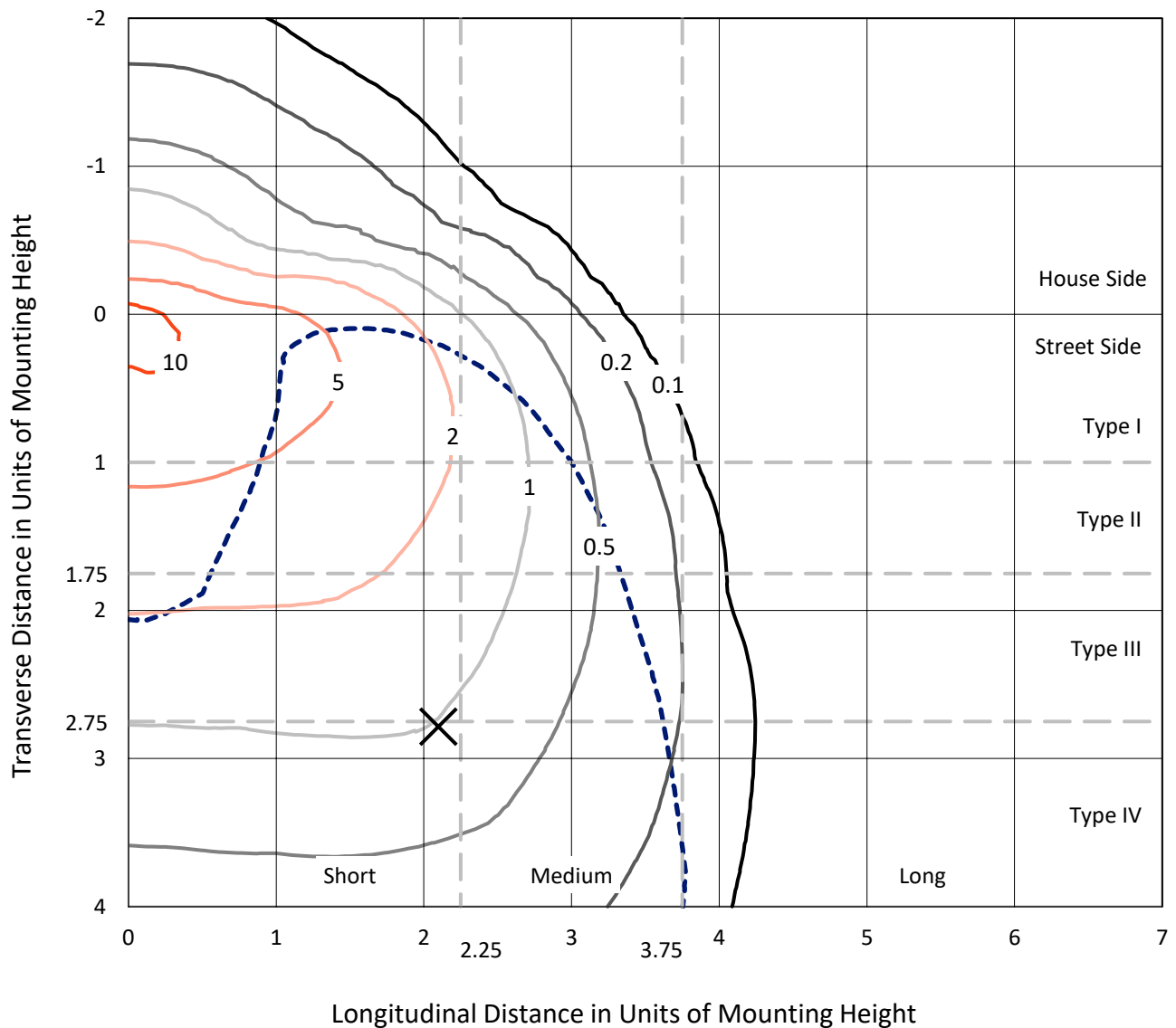
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

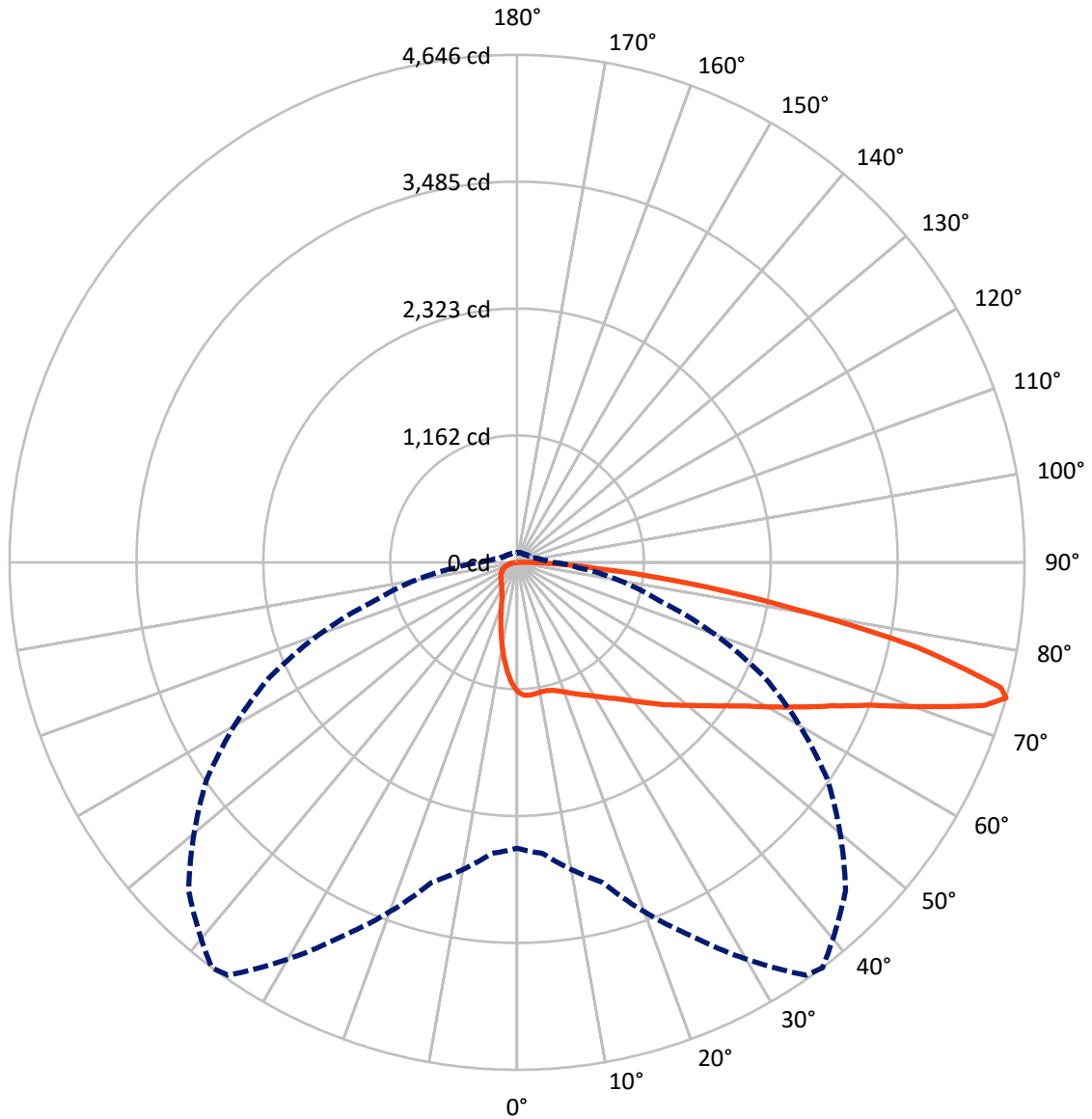
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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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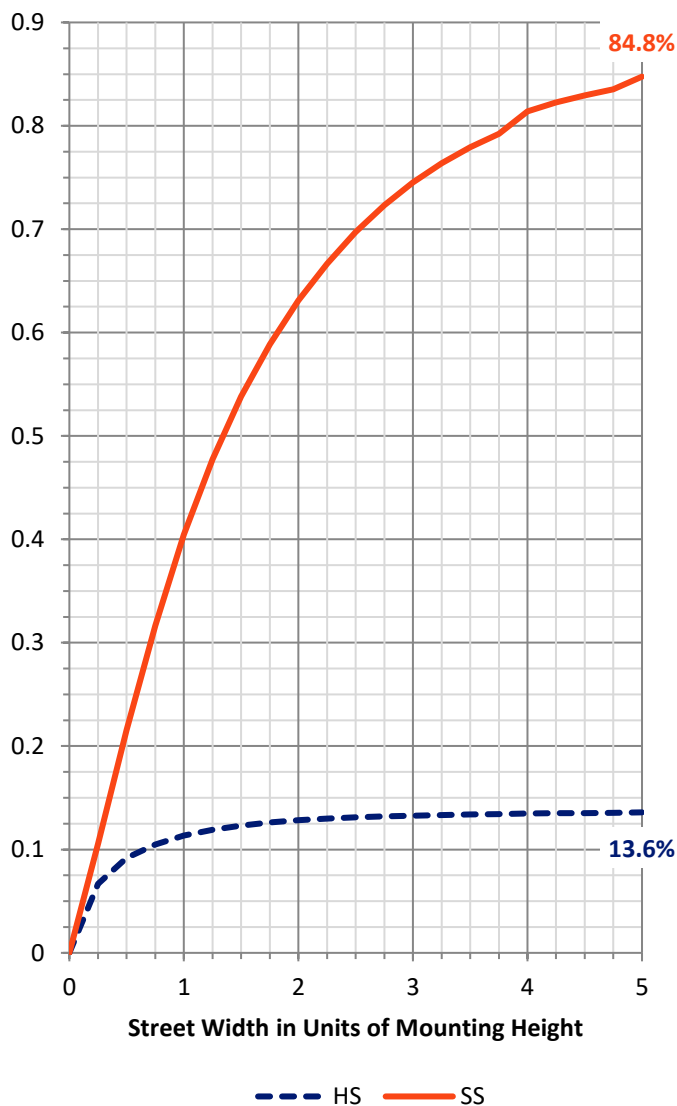
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	927.8	0.0	927.8
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	5815.2	0.0	5815.2
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	6743.0	0.0	6743.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	1.6
10°-20°	268.2	4.0
20°-30°	413.2	6.1
30°-40°	600.9	8.9
40°-50°	884.4	13.1
50°-60°	1242.0	18.4
60°-70°	1571.9	23.3
70°-80°	1384.1	20.5
80°-90°	273.7	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°	6743.0	100.0
0°-180°	6743.0	100.0

**Coefficient of Utilization**



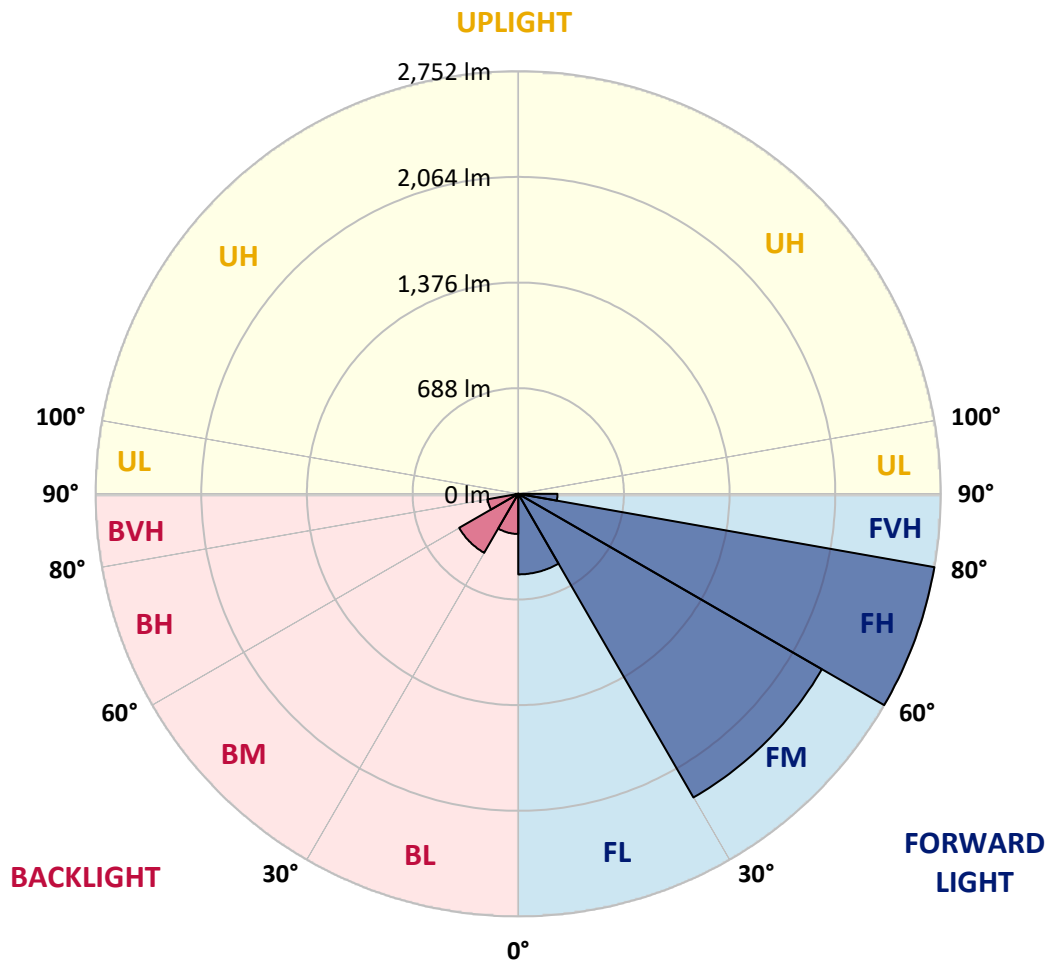
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.7	7.8			
FM (30°-60°)	2283.2	33.9			
FH (60°-80°)	2752.1	40.8			G2/5000
FVH (80°-90°)	255.1	3.8			G3/500
BL (0°-30°)	261.3	3.9	B1/500		
BM (30°-60°)	444.0	6.6	B1/1000		
BH (60°-80°)	203.9	3.0	B1/500		G1/500
BVH (80°-90°)	18.5	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°	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1
2.5°	1228.7	1228.9	1228.7	1226.8	1222.2	1218.5	1215.4	1210.9	1200.9	1193.3	1181.9
5°	1240.4	1238.9	1237.9	1234.4	1227.3	1223.0	1217.1	1208.5	1192.1	1177.0	1158.4
7.5°	1234.8	1233.2	1231.1	1226.8	1218.8	1215.2	1206.8	1195.7	1175.9	1156.0	1129.4
10°	1218.0	1217.5	1216.6	1215.7	1208.7	1205.9	1198.3	1186.5	1166.9	1142.7	1111.6
12.5°	1199.2	1200.5	1204.2	1209.2	1206.2	1204.7	1200.0	1191.9	1171.9	1145.8	1108.3
15°	1187.4	1190.7	1200.9	1214.0	1216.6	1216.1	1214.9	1209.7	1188.5	1159.6	1115.9
17.5°	1183.4	1188.8	1208.2	1229.9	1237.5	1239.2	1239.6	1230.6	1207.1	1176.4	1123.7
20°	1190.7	1197.5	1226.1	1255.8	1267.9	1268.8	1266.7	1251.0	1224.7	1191.0	1128.0
22.5°	1213.0	1219.2	1254.8	1288.3	1302.1	1303.5	1297.1	1273.3	1243.2	1208.1	1133.9
25°	1256.0	1263.6	1299.3	1332.7	1339.9	1340.1	1330.8	1301.3	1267.4	1232.0	1146.7
27.5°	1312.1	1319.7	1351.7	1384.5	1380.7	1378.6	1366.0	1336.6	1299.0	1265.1	1169.5
30°	1374.5	1382.9	1413.2	1436.5	1427.5	1423.3	1413.0	1375.0	1343.0	1310.2	1204.5
32.5°	1439.2	1446.8	1473.3	1489.2	1477.9	1476.0	1460.6	1425.8	1400.2	1379.0	1261.0
35°	1505.4	1510.9	1537.0	1546.1	1530.8	1530.4	1526.0	1494.3	1478.1	1488.1	1343.1
37.5°	1573.1	1574.5	1596.9	1597.3	1592.8	1594.7	1599.2	1579.3	1583.8	1614.9	1450.0
40°	1633.4	1637.3	1653.4	1658.4	1666.2	1672.9	1695.4	1682.4	1717.3	1772.4	1583.1
42.5°	1678.1	1685.5	1711.4	1724.2	1749.6	1760.0	1791.9	1804.0	1874.3	1956.9	1741.3
45°	1715.9	1727.3	1768.8	1795.2	1838.2	1856.4	1902.1	1942.7	2051.7	2157.1	1907.8
47.5°	1756.7	1771.2	1823.2	1873.5	1932.0	1952.6	2035.6	2096.4	2241.0	2358.6	2064.8
50°	1816.8	1828.0	1878.8	1957.9	2030.8	2057.5	2172.2	2259.3	2433.4	2550.5	2200.9
52.5°	1900.7	1896.4	1939.4	2050.3	2148.1	2180.9	2318.0	2432.7	2628.4	2724.1	2315.8
55°	1984.9	1977.8	2008.0	2147.0	2285.0	2319.4	2478.5	2606.8	2814.0	2880.5	2404.0
57.5°	2078.8	2065.3	2090.7	2256.0	2440.7	2481.9	2658.4	2791.9	2996.4	3006.8	2460.0
60°	2175.4	2157.1	2185.7	2391.1	2638.7	2687.0	2868.8	2972.3	3168.3	3108.0	2478.0
62.5°	2260.0	2247.2	2291.2	2542.0	2861.7	2914.8	3075.5	3164.3	3337.9	3150.0	2413.0
65°	2333.9	2336.0	2412.1	2711.6	3110.3	3167.1	3312.5	3400.8	3471.3	3125.1	2260.7
67.5°	2422.0	2434.2	2563.8	2934.9	3423.4	3485.6	3657.3	3658.8	3545.9	2978.7	1961.0
70°	2550.5	2575.4	2772.6	3244.6	3868.5	3954.0	4086.6	3810.4	3441.2	2582.1	1543.0
72.5°	2664.5	2711.1	2994.7	3598.9	4411.0	4475.8	4337.7	3722.9	3003.4	1935.1	961.3
74°	2618.2	2676.0	3035.1	3773.5	4615.3	4646.4	4252.8	3467.9	2504.2	1340.1	558.7
75°	2518.4	2581.2	2976.2	3771.9	4589.4	4572.0	4048.1	3176.4	2062.4	914.0	371.7
77.5°	2032.5	2098.7	2507.7	3232.6	3763.0	3746.7	3109.7	2130.8	903.3	299.8	188.8
80°	1181.7	1232.3	1556.8	2052.9	2537.5	2567.2	2045.1	1054.4	355.4	168.4	128.0
82.5°	524.9	559.9	752.0	1048.0	1531.3	1569.5	1071.0	552.5	219.4	102.4	76.9
85°	344.4	370.3	456.5	499.0	729.2	755.4	524.2	430.1	144.9	56.3	56.6
87.5°	247.7	272.7	339.2	296.2	334.7	316.9	285.3	398.1	58.1	32.0	19.0
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°	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1	1188.1
2.5°	1177.0	1173.1	1164.6	1148.4	1139.4	1131.8	1119.2	1111.9	1108.5	1108.3	1109.7
5°	1147.8	1138.9	1116.8	1089.8	1068.1	1048.5	1023.9	1009.2	998.8	992.6	994.3
7.5°	1113.7	1099.9	1065.3	1022.1	987.4	949.2	911.4	888.8	871.2	858.1	860.6
10°	1090.4	1071.5	1020.8	958.7	900.9	845.4	793.3	762.2	737.5	718.5	720.0
12.5°	1082.7	1057.0	986.9	903.8	822.8	746.7	678.8	631.1	605.7	584.0	585.7
15°	1083.8	1049.4	958.4	854.4	752.5	656.7	574.3	518.5	484.1	469.1	469.3
17.5°	1084.7	1040.6	928.5	801.4	682.8	572.7	483.1	426.6	394.1	380.3	380.5
20°	1081.7	1026.3	891.4	740.6	610.2	495.4	408.7	360.8	336.1	325.4	325.4
22.5°	1077.7	1009.5	849.6	679.6	538.5	428.5	355.6	319.0	304.7	297.6	297.4
25°	1079.6	996.9	806.8	616.8	472.4	375.0	320.1	295.9	286.4	281.9	281.7
27.5°	1089.8	991.0	767.4	554.3	414.7	334.9	296.5	279.3	273.2	270.3	270.3
30°	1108.3	991.0	726.3	501.2	366.7	305.2	278.2	266.5	262.2	260.3	260.3
32.5°	1140.6	996.4	686.7	448.5	328.5	281.9	262.9	255.1	251.8	250.8	250.8
35°	1196.1	1014.9	648.0	398.6	297.6	262.9	248.5	244.0	241.5	241.3	242.1
37.5°	1274.3	1052.7	611.6	361.8	275.8	247.5	236.4	232.8	231.4	232.5	233.4
40°	1372.6	1104.0	578.6	328.5	259.2	235.1	225.2	222.8	222.1	223.8	225.2
42.5°	1491.4	1173.4	551.5	304.5	246.3	224.7	215.7	212.9	212.1	214.0	215.9
45°	1619.9	1248.0	532.5	286.7	236.4	216.8	207.3	204.2	202.8	203.8	205.9
47.5°	1736.8	1318.4	524.9	274.1	226.9	210.2	200.0	196.2	193.8	193.3	195.0
50°	1835.3	1371.0	528.5	266.5	219.3	202.8	192.9	188.6	185.1	182.9	184.1
52.5°	1907.1	1404.0	531.8	263.2	213.3	194.7	185.1	181.0	176.2	172.7	172.7
55°	1959.1	1411.6	524.5	260.6	208.8	186.0	176.2	172.5	167.7	163.6	163.2
57.5°	1979.5	1390.2	497.1	256.7	205.7	177.6	167.0	164.1	160.1	155.4	155.1
60°	1952.0	1324.2	444.4	248.7	201.7	170.8	157.7	155.8	153.9	149.4	149.2
62.5°	1841.3	1179.3	376.2	232.3	193.6	163.5	149.2	150.1	150.4	147.3	146.8
65°	1640.6	980.3	309.7	210.9	181.5	154.6	140.3	144.9	147.5	147.0	146.4
67.5°	1348.9	762.9	262.5	188.3	165.5	142.5	130.9	136.1	138.3	139.9	139.4
70°	1001.1	538.0	217.1	164.6	146.4	128.2	118.6	121.2	119.7	121.7	122.3
72.5°	558.2	322.8	177.0	140.8	126.3	111.6	104.7	104.3	101.2	101.2	101.2
74°	334.9	236.8	155.6	126.2	114.2	100.7	94.8	92.6	89.8	90.0	89.8
75°	269.3	203.6	142.8	116.4	105.7	94.3	88.4	85.5	83.3	83.3	83.1
77.5°	170.0	154.6	115.0	92.6	84.5	77.7	73.6	69.8	69.8	69.6	69.3
80°	128.5	123.1	89.5	70.1	64.8	59.7	57.0	55.3	55.3	56.1	55.8
82.5°	88.1	92.6	62.9	48.9	46.3	42.6	42.1	42.3	41.5	40.6	40.4
85°	64.3	69.6	42.6	30.9	28.3	25.9	27.8	28.7	27.5	25.5	24.4
87.5°	24.7	45.6	22.8	12.9	11.8	10.2	11.8	12.3	13.3	10.4	10.7
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)