

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: STREETWORKS

Report Number: P317407

Luminaire Tested: **GAN-SA3C-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3C-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20488 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

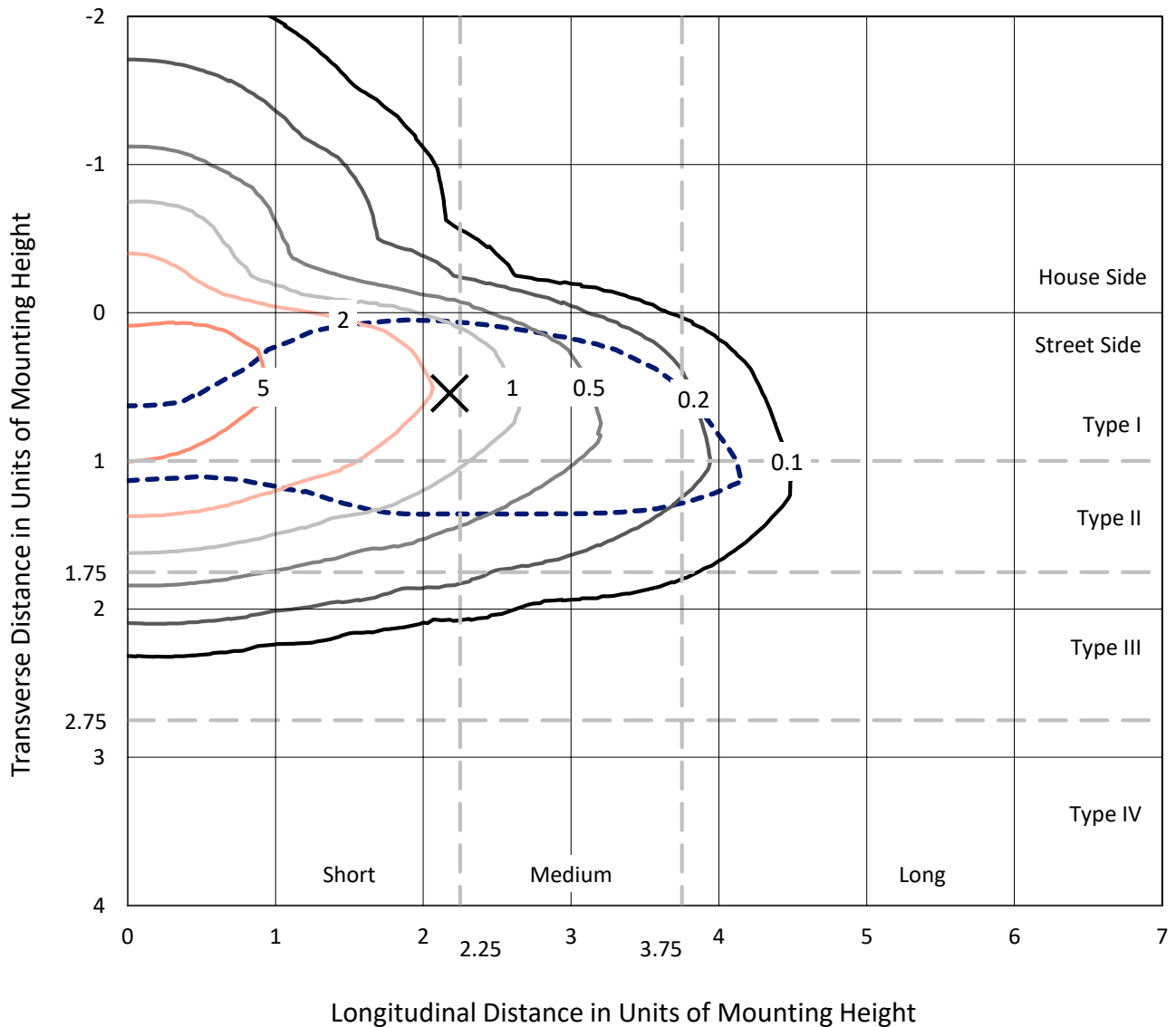
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

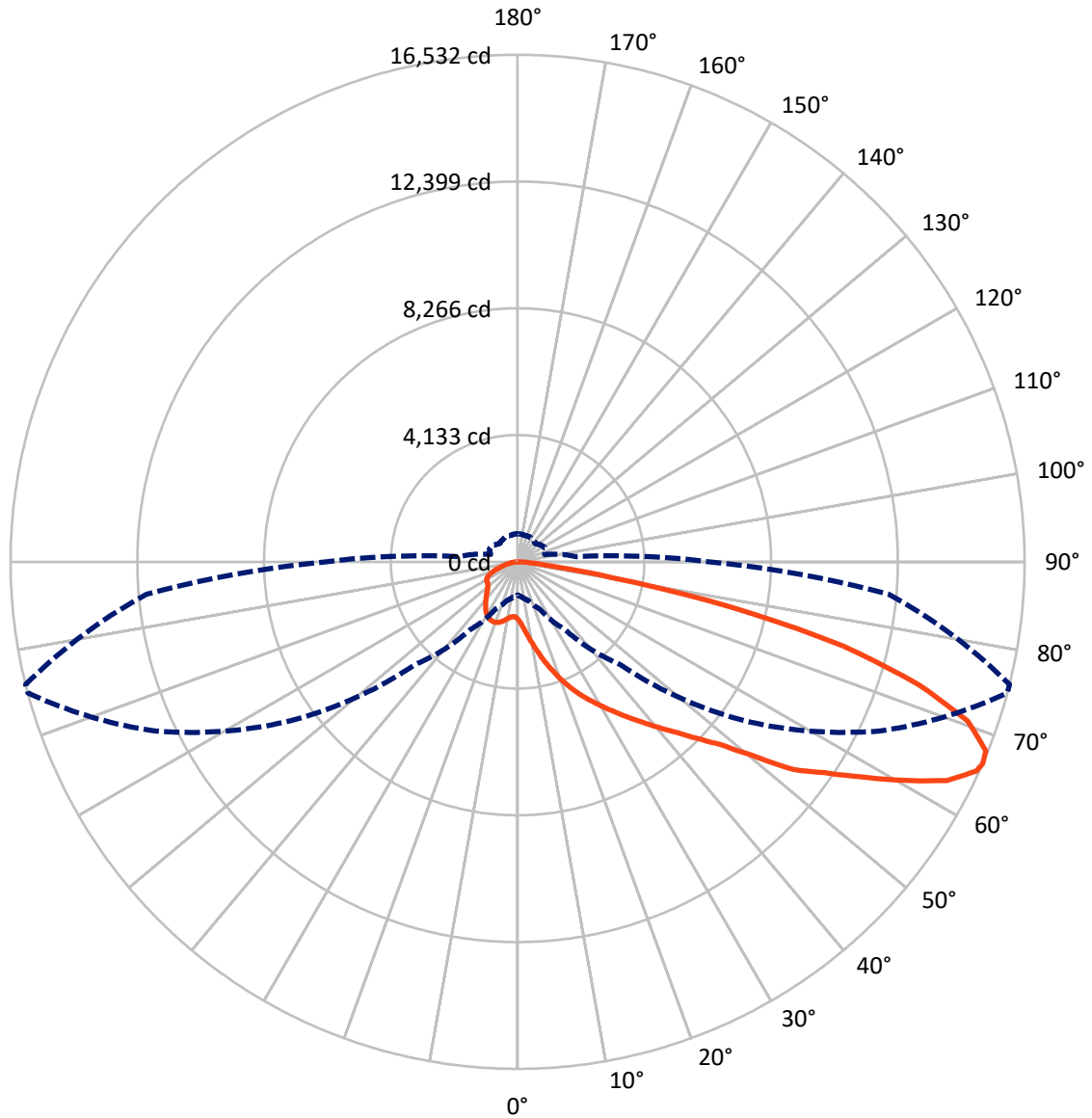
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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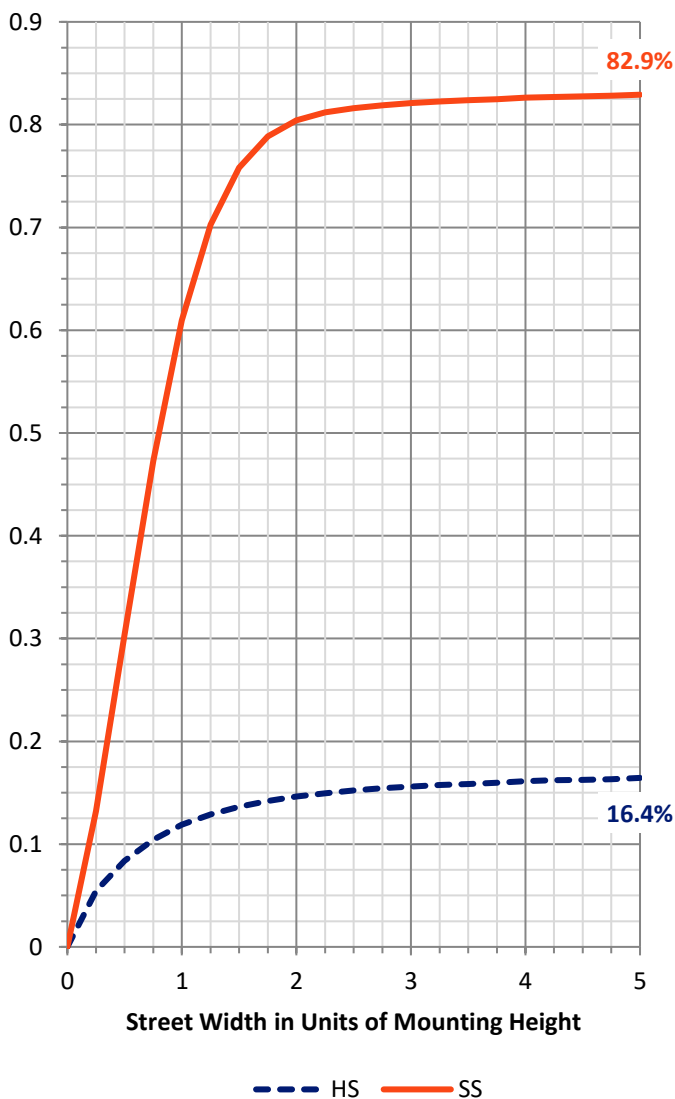
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3447.4	0.0	3447.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	17040.6	0.0	17040.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	20488.0	0.0	20488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.3	1.1
10°-20°	893.5	4.4
20°-30°	1736.2	8.5
30°-40°	2833.9	13.8
40°-50°	3871.8	18.9
50°-60°	4509.9	22.0
60°-70°	4043.2	19.7
70°-80°	2043.3	10.0
80°-90°	330.0	1.6
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°	20488.0	100.0
0°-180°	20488.0	100.0

**Coefficient of Utilization**



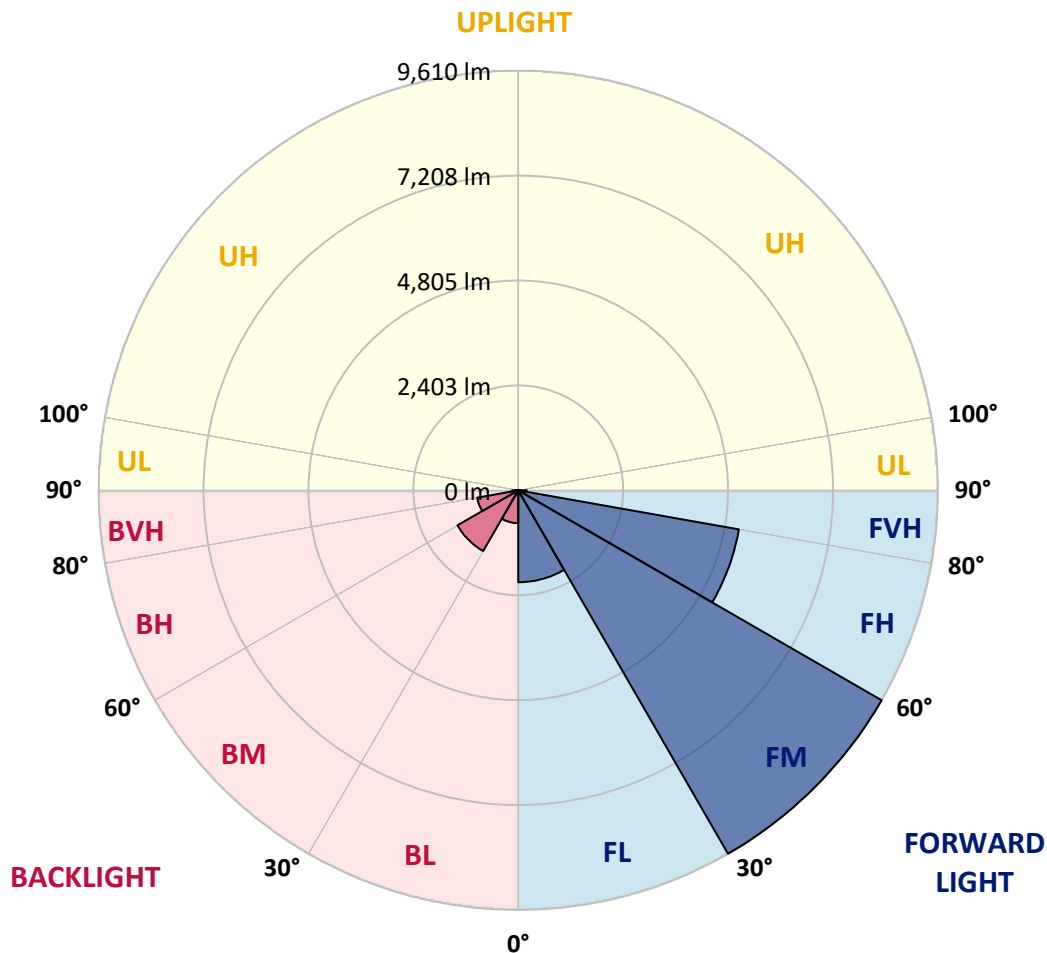
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2104.1	10.3			
FM (30°-60°)	9610.3	46.9			
FH (60°-80°)	5131.4	25.0			G3/7500
FVH (80°-90°)	194.9	1.0			G2/225
BL (0°-30°)	751.9	3.7	B2/1000		
BM (30°-60°)	1605.3	7.8	B2/2500		
BH (60°-80°)	955.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	135.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0
2.5°	2483.8	2446.2	2442.8	2387.8	2375.3	2270.3	2193.1	2112.4	2020.6	2002.5	1930.1
5°	3190.5	3187.0	3139.0	3049.3	2979.0	2799.6	2622.2	2434.4	2228.5	2195.1	2032.4
7.5°	3826.2	3820.6	3783.8	3687.1	3585.5	3365.0	3111.9	2823.9	2490.1	2440.7	2170.8
10°	4308.9	4306.8	4294.3	4223.4	4137.1	3925.7	3646.0	3253.1	2794.0	2726.5	2344.0
12.5°	4681.7	4685.9	4694.2	4669.2	4628.2	4448.0	4161.4	3708.0	3118.1	3051.4	2536.7
15°	4934.2	4946.7	4989.8	5025.3	5046.9	4936.3	4658.8	4173.3	3481.2	3401.2	2750.2
17.5°	5061.5	5075.4	5149.8	5256.9	5355.7	5344.6	5124.1	4617.0	3829.7	3752.5	2979.7
20°	5171.4	5181.8	5265.3	5394.0	5568.5	5645.7	5521.9	5044.1	4211.5	4119.7	3223.2
22.5°	5489.9	5503.2	5528.2	5601.2	5755.6	5897.5	5837.7	5448.2	4561.4	4475.8	3454.1
25°	6104.8	6120.8	6066.5	6004.6	6033.9	6132.6	6143.8	5816.8	4916.1	4819.4	3702.4
27.5°	6845.6	6868.5	6776.0	6616.7	6477.6	6439.4	6426.1	6118.7	5254.8	5142.9	3947.9
30°	7571.0	7610.7	7490.3	7283.7	7028.5	6849.0	6716.2	6414.3	5588.7	5481.6	4179.5
32.5°	8279.8	8263.8	8089.2	7887.5	7588.4	7363.7	7042.4	6731.5	5964.3	5841.2	4409.8
35°	8765.3	8770.8	8608.8	8369.5	8084.3	7911.8	7479.2	7073.7	6347.5	6234.2	4671.3
37.5°	9178.4	9152.7	8969.1	8745.8	8500.3	8426.5	7990.4	7450.7	6762.8	6639.0	4949.5
40°	9316.1	9286.2	9165.9	9005.2	8808.4	8802.1	8554.5	7877.7	7232.3	7109.9	5263.2
42.5°	9232.7	9194.4	9145.0	9101.2	9040.7	9068.5	9084.5	8378.5	7748.4	7611.4	5626.3
45°	8924.5	8866.8	8901.6	8996.9	9128.3	9285.5	9563.1	8932.9	8326.4	8211.6	6052.6
47.5°	8450.9	8398.7	8507.2	8711.0	9068.5	9466.4	10015.9	9545.0	9016.4	8902.3	6659.8
50°	7784.5	7799.8	7955.0	8325.7	8866.1	9549.8	10573.7	10355.3	10019.3	9912.9	7488.2
52.5°	6691.1	6693.9	7130.7	7739.3	8507.2	9506.7	10883.2	11390.9	11388.9	11260.2	8277.0
55°	5675.6	5737.6	6083.2	6892.2	7925.7	9334.2	11099.5	11894.5	12288.2	12137.3	9012.2
57.5°	4683.8	4720.0	5047.6	5860.0	7096.0	8874.5	11321.4	12498.9	13324.6	13229.3	9926.1
60°	3555.6	3611.3	3950.0	4700.5	6034.5	8058.6	11342.3	13129.8	14563.3	14467.3	10946.5
62.5°	2307.8	2403.8	2721.0	3424.2	4750.6	6885.2	10858.2	13542.3	15737.4	15703.3	11852.1
65°	1326.4	1398.7	1619.2	2161.8	3277.4	5412.0	9707.0	13383.7	16460.1	16440.6	12190.8
66°	1083.7	1128.9	1297.9	1689.5	2704.3	4752.7	9037.9	13049.1	16531.7	16532.4	12151.9
67.5°	866.6	886.8	962.6	1209.6	1995.5	3767.1	7842.3	12311.1	16442.7	16467.0	11900.8
70°	717.1	727.5	751.2	811.0	1089.2	2271.7	5566.4	10393.5	15548.9	15567.7	10920.8
72.5°	643.4	649.6	658.7	667.0	768.6	1269.4	3399.8	8314.5	13632.7	13657.0	9427.4
75°	582.9	586.3	585.0	585.6	644.8	808.9	1756.9	6207.7	11023.0	10974.3	7221.8
77.5°	511.9	515.4	508.4	509.8	570.3	621.8	874.3	4345.8	7438.9	7095.3	4068.9
80°	432.6	435.4	432.6	437.5	496.6	469.5	508.4	2444.8	3289.2	3111.2	1446.7
82.5°	326.9	338.7	347.1	366.6	409.0	333.9	340.1	952.2	1001.6	953.6	443.8
85°	143.3	174.6	261.5	280.3	307.4	200.3	223.3	388.1	407.6	395.1	161.4
87.5°	37.6	41.0	129.4	162.8	170.4	90.4	116.2	176.7	186.4	176.7	53.6
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°	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0	1871.0
2.5°	1891.9	1857.8	1796.6	1742.3	1701.3	1673.5	1645.7	1631.7	1623.4	1615.1	1616.4
5°	1952.4	1883.5	1778.5	1704.1	1662.4	1635.9	1622.0	1616.4	1613.0	1604.6	1604.6
7.5°	2043.5	1946.1	1801.5	1725.0	1692.3	1672.1	1663.7	1661.0	1656.8	1647.1	1648.4
10°	2158.3	2021.9	1849.5	1775.0	1745.1	1722.9	1711.0	1706.9	1699.2	1688.1	1689.5
12.5°	2293.2	2115.8	1912.7	1834.8	1798.7	1768.8	1749.3	1737.5	1724.3	1709.7	1710.3
15°	2440.7	2218.1	1980.9	1888.4	1839.0	1797.3	1766.0	1745.8	1725.0	1706.9	1706.2
17.5°	2590.2	2316.9	2033.1	1917.6	1850.8	1795.9	1753.5	1722.2	1696.4	1674.2	1672.1
20°	2751.6	2405.9	2062.3	1914.8	1828.6	1763.2	1706.9	1667.9	1639.4	1617.1	1613.7
22.5°	2915.7	2489.4	2067.2	1886.3	1779.2	1699.2	1640.1	1597.0	1567.8	1544.8	1536.5
25°	3066.0	2554.0	2047.0	1831.4	1710.3	1624.1	1566.4	1522.5	1498.9	1471.8	1463.4
27.5°	3203.0	2599.3	2006.6	1761.1	1633.1	1548.3	1494.0	1456.5	1430.7	1409.9	1402.9
30°	3326.1	2623.6	1940.6	1677.7	1553.8	1476.6	1430.7	1405.0	1382.7	1356.3	1351.4
32.5°	3442.9	2623.6	1855.7	1586.5	1475.3	1413.3	1386.2	1370.2	1345.2	1319.4	1312.5
35°	3559.8	2607.6	1755.6	1491.2	1402.9	1368.1	1366.7	1348.0	1309.7	1274.9	1265.9
37.5°	3682.9	2574.9	1642.9	1402.2	1343.8	1348.0	1359.8	1318.1	1263.8	1214.4	1201.2
40°	3822.0	2529.7	1526.0	1325.0	1294.4	1338.9	1341.0	1274.9	1169.2	1124.0	1112.2
42.5°	3985.5	2484.5	1417.5	1256.9	1255.5	1311.8	1305.5	1181.7	1118.4	1095.5	1089.2
45°	4200.4	2458.8	1314.6	1192.2	1224.9	1268.0	1245.0	1130.3	1103.8	1090.6	1085.1
47.5°	4539.1	2472.0	1220.0	1140.7	1194.3	1224.2	1132.3	1109.4	1090.6	1074.6	1069.1
50°	4963.4	2464.3	1143.5	1105.2	1159.5	1178.3	1081.6	1082.3	1072.5	1054.4	1046.1
52.5°	5282.7	2404.5	1094.1	1085.1	1128.9	1096.9	1049.6	1055.8	1051.0	1024.5	1015.5
55°	5590.8	2353.0	1069.1	1077.4	1106.6	995.3	1012.0	1027.3	1022.5	996.7	992.5
57.5°	5974.0	2343.3	1053.8	1079.5	1087.8	944.6	975.8	996.0	992.5	981.4	979.3
60°	6443.5	2346.1	1039.8	1083.0	1067.0	907.0	941.8	967.5	969.6	967.5	966.1
62.5°	6701.6	2270.3	1005.1	1073.2	1030.1	874.3	906.3	943.9	944.6	948.7	948.0
65°	6482.5	2043.5	940.4	1039.1	968.2	847.2	875.7	916.7	906.3	925.1	925.1
66°	6269.6	1912.7	908.4	1016.9	941.8	836.7	866.0	902.8	889.6	915.3	915.3
67.5°	5834.9	1692.3	850.7	969.6	904.2	822.1	854.8	879.9	861.8	900.0	897.3
70°	5040.6	1309.0	734.5	862.5	842.3	800.6	839.5	834.0	807.5	866.0	854.8
72.5°	4249.8	994.6	589.8	722.0	748.4	773.4	818.0	775.5	742.1	783.2	758.8
75°	3297.6	747.7	466.0	561.3	632.3	731.0	792.2	708.1	660.1	655.9	642.7
77.5°	1782.7	513.3	369.3	428.5	502.2	678.2	774.8	635.7	563.4	546.7	536.3
80°	706.0	333.9	268.5	324.8	351.3	601.6	733.1	551.6	464.6	447.9	431.9
82.5°	291.4	197.5	173.2	217.7	228.8	514.7	658.0	452.1	358.9	496.6	527.2
85°	125.2	108.5	102.9	112.7	129.4	361.0	523.7	345.0	387.4	345.7	274.7
87.5°	37.6	45.9	43.8	43.1	47.3	86.2	278.9	192.0	284.5	107.8	80.7
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)