

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: P318028

Luminaire Tested: **GAN-SA4A-730-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4A-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16801 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

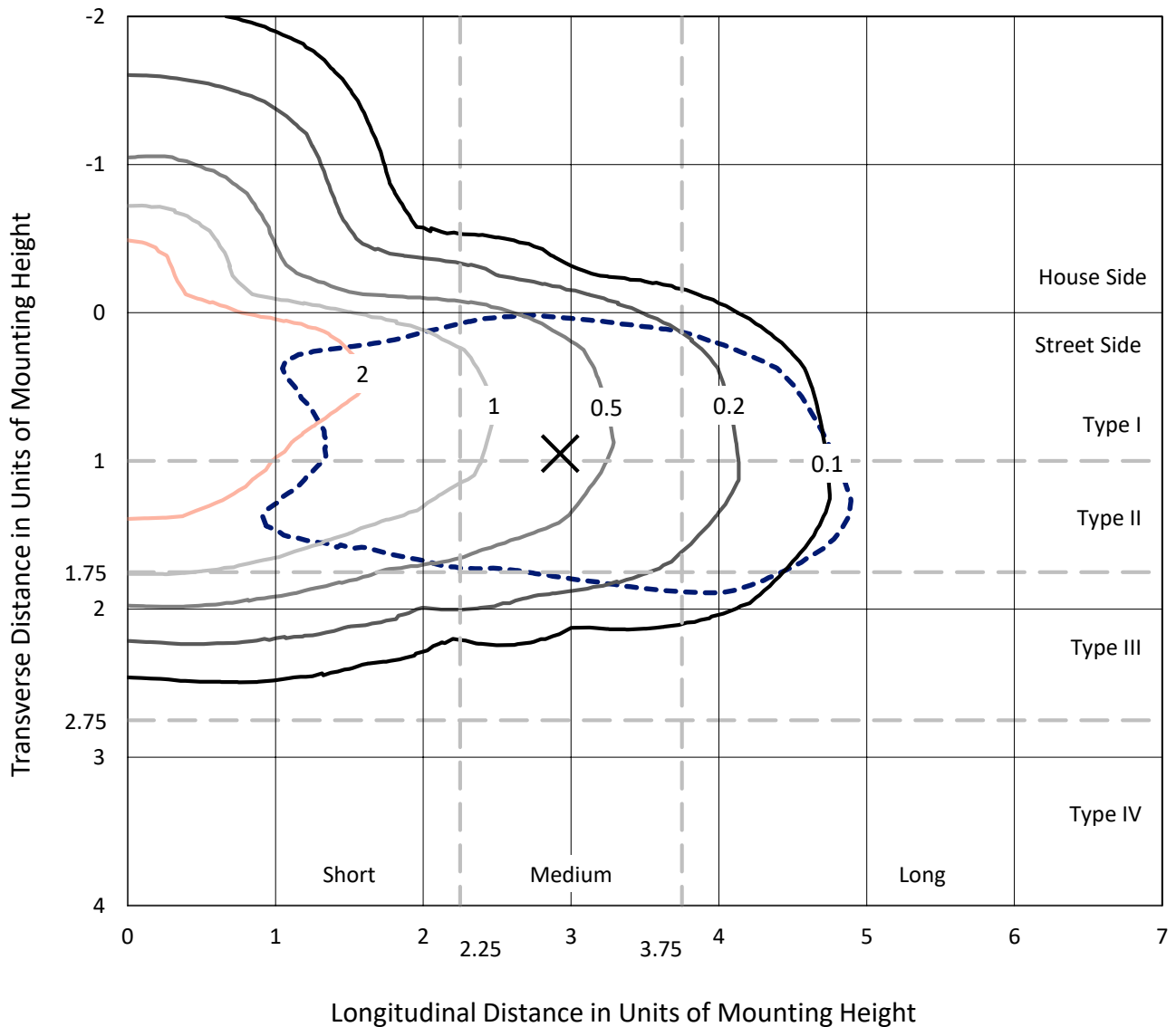
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

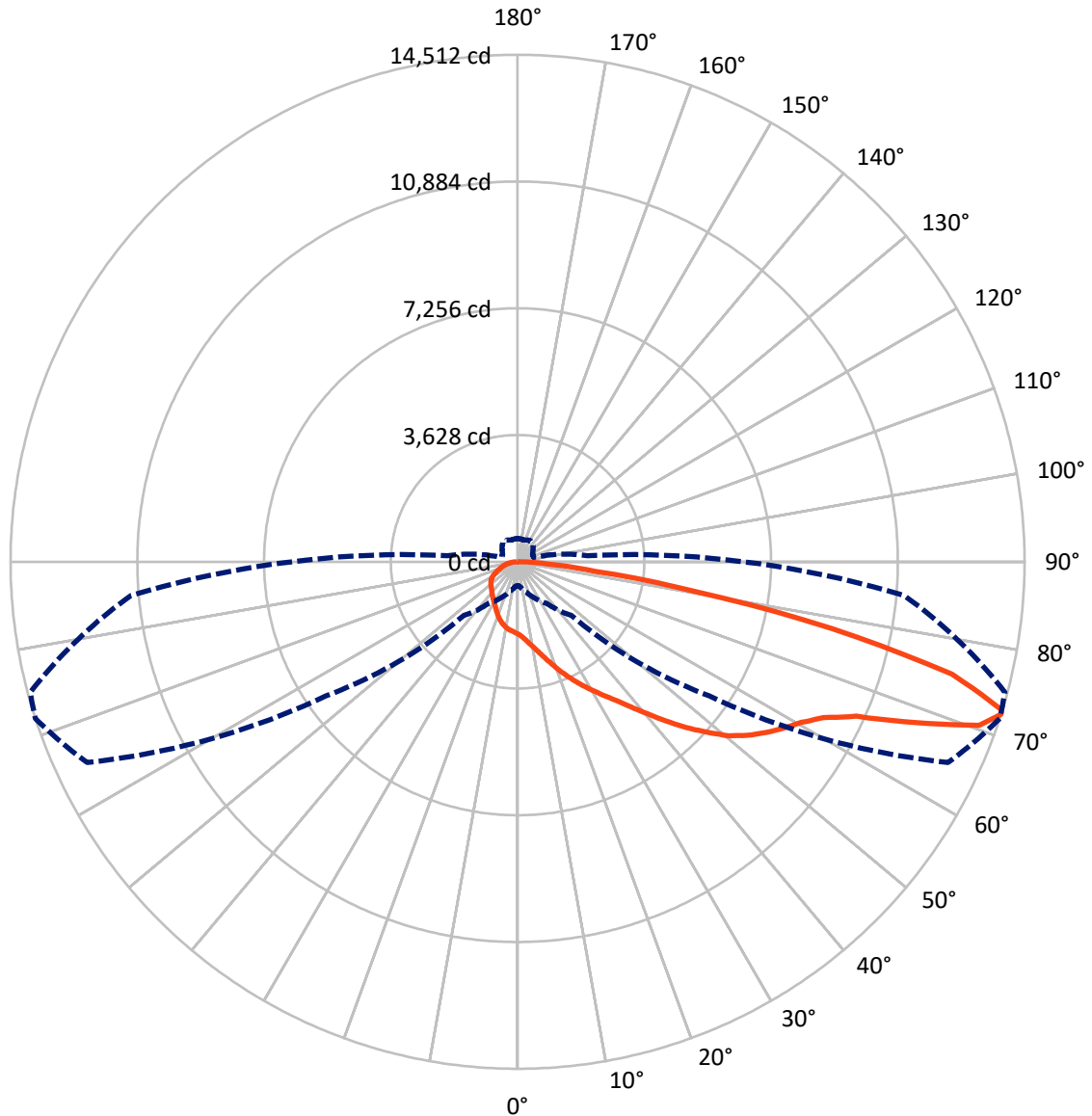
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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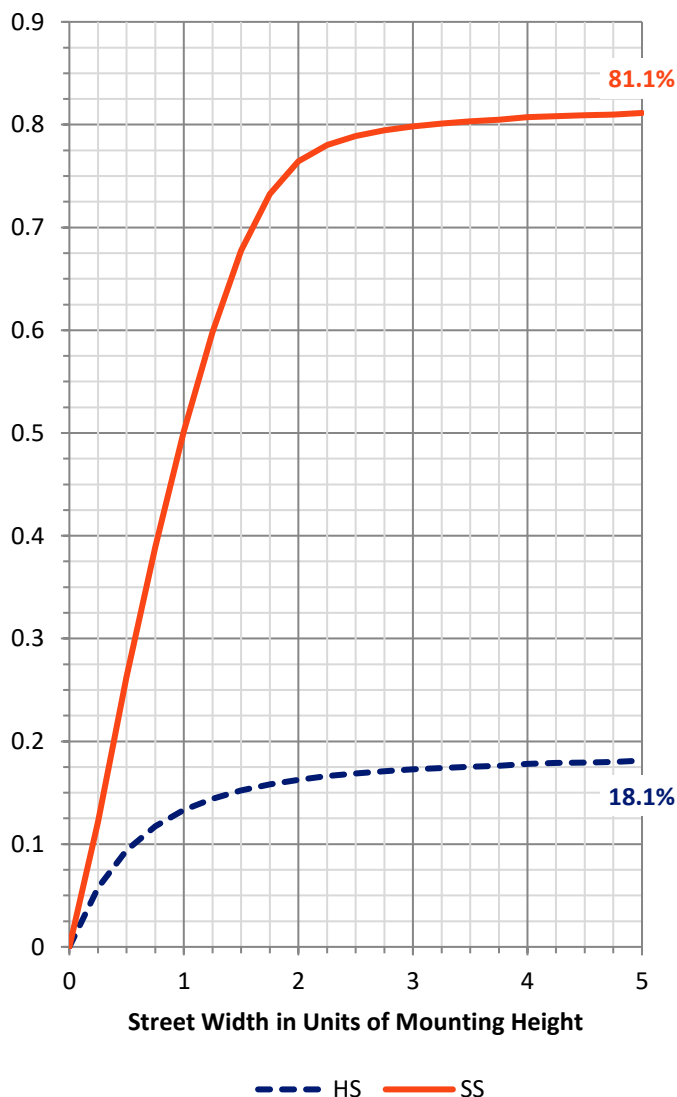
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3116.7	0.0	3116.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	13684.3	0.0	13684.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	16801.0	0.0	16801.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.1	1.2
10°-20°	669.3	4.0
20°-30°	1172.8	7.0
30°-40°	1738.9	10.4
40°-50°	2543.3	15.1
50°-60°	3499.6	20.8
60°-70°	3896.1	23.2
70°-80°	2640.0	15.7
80°-90°	433.9	2.6
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°	16801.0	100.0
0°-180°	16801.0	100.0

**Coefficient of Utilization**

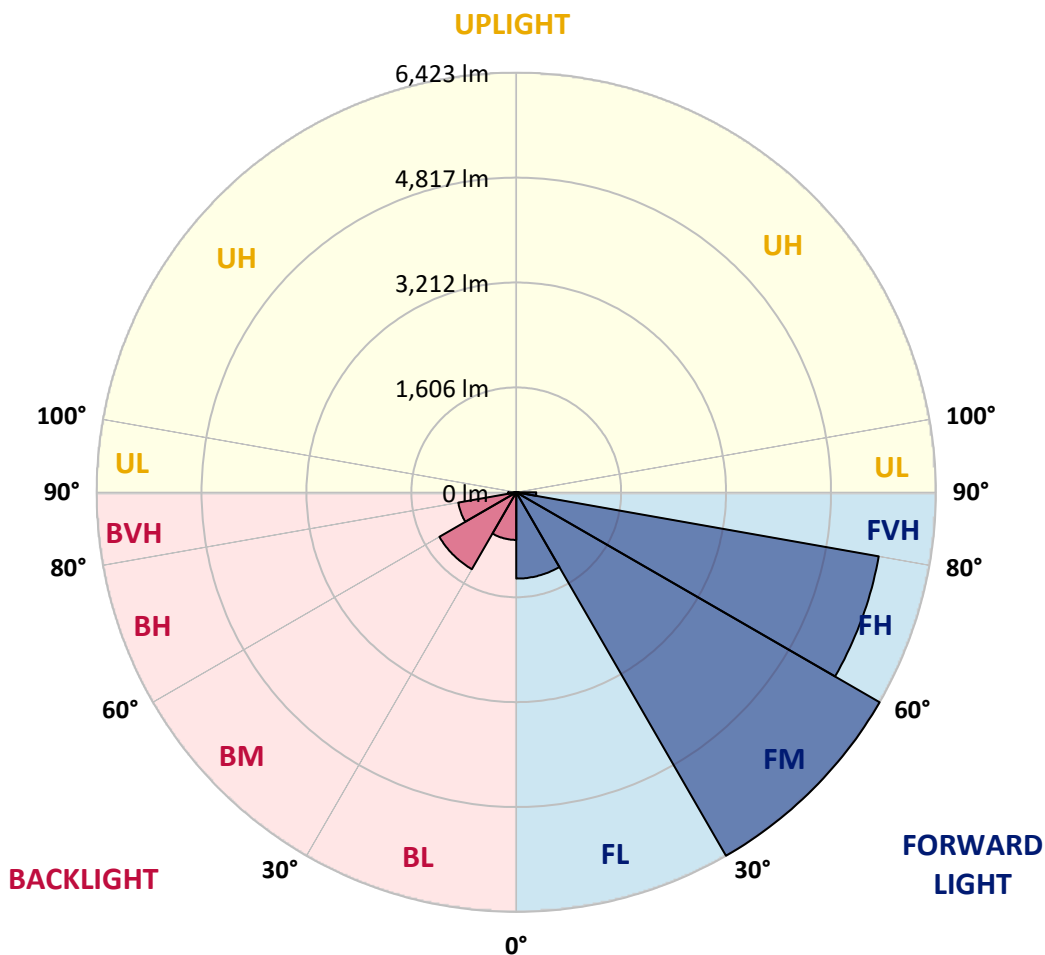


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.7	7.9			
FM (30°-60°)	6423.2	38.2			
FH (60°-80°)	5634.3	33.5			G3/7500
FVH (80°-90°)	306.1	1.8			G3/500
BL (0°-30°)	728.6	4.3	B2/1000		
BM (30°-60°)	1358.6	8.1	B2/2500		
BH (60°-80°)	901.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	127.8	0.8			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0
2.5°	2283.3	2279.8	2267.7	2267.7	2244.6	2224.9	2187.9	2163.0	2133.5	2123.1	2088.4
5°	2504.3	2505.5	2490.4	2480.0	2445.9	2404.2	2341.2	2283.9	2226.6	2203.5	2132.3
7.5°	2690.0	2687.7	2683.6	2675.0	2643.1	2600.3	2515.3	2430.3	2345.8	2311.1	2188.4
10°	2809.2	2814.4	2817.8	2821.9	2808.6	2777.9	2697.5	2594.0	2483.5	2436.0	2255.6
12.5°	2869.3	2878.6	2894.8	2922.6	2944.5	2941.1	2882.6	2772.7	2641.4	2581.8	2339.4
15°	2904.6	2916.8	2942.2	2992.0	3053.9	3089.2	3073.5	2974.0	2827.7	2754.2	2441.8
17.5°	2926.6	2936.4	2975.8	3042.3	3134.3	3228.0	3269.1	3185.8	3038.3	2954.4	2559.3
20°	2941.6	2949.2	2998.3	3076.4	3195.6	3344.9	3459.4	3438.6	3270.2	3161.5	2681.9
22.5°	2975.2	2981.6	3028.4	3107.1	3239.0	3431.6	3642.8	3674.0	3514.9	3391.7	2813.2
25°	3068.9	3068.9	3108.3	3163.2	3287.0	3506.8	3797.8	3936.1	3764.8	3621.4	2934.7
27.5°	3247.7	3245.9	3260.4	3279.5	3373.2	3583.2	3936.1	4167.5	4024.0	3867.2	3052.7
30°	3459.4	3471.0	3472.7	3463.4	3507.4	3678.6	4063.9	4411.6	4284.9	4116.0	3173.6
32.5°	3731.9	3739.4	3730.7	3700.1	3693.7	3814.0	4189.5	4667.3	4567.2	4375.7	3284.1
35°	4077.8	4063.3	4036.2	3973.7	3914.1	3995.1	4332.9	4923.0	4884.2	4689.9	3436.3
37.5°	4448.6	4449.2	4415.6	4273.9	4191.8	4226.5	4530.8	5212.8	5267.8	5063.6	3631.2
40°	4746.0	4761.6	4782.4	4596.1	4489.7	4537.7	4782.4	5548.9	5721.3	5506.7	3885.2
42.5°	4953.6	4971.6	5030.6	4913.7	4803.2	4892.3	5078.6	5907.6	6230.4	6018.1	4182.5
45°	5173.5	5183.3	5225.0	5174.6	5104.1	5304.8	5412.4	6279.0	6769.0	6563.0	4515.2
47.5°	5404.9	5415.3	5458.1	5424.5	5387.5	5690.1	5760.6	6629.0	7285.0	7161.8	4870.3
50°	5690.7	5697.6	5738.1	5677.3	5688.9	5980.5	6071.9	6950.0	7825.9	7699.8	5226.7
52.5°	6080.6	6082.3	6138.4	6083.4	6029.1	6193.4	6339.7	7252.6	8249.9	8190.3	5583.1
55°	6386.0	6404.5	6588.5	6576.9	6545.7	6386.6	6563.6	7540.7	8628.2	8656.6	5961.4
57.5°	6191.0	6263.4	6635.9	6898.5	7154.2	6867.3	6866.2	7865.2	8980.0	9114.2	6377.3
60°	5422.2	5520.6	6069.6	6652.1	7452.2	7703.8	7494.4	8261.5	9335.2	9567.7	6898.5
62.5°	3872.4	4034.4	4778.4	5708.6	7043.8	8258.0	8772.9	8890.3	9818.2	10093.0	7576.0
65°	1957.6	2080.3	2703.9	3824.4	5627.6	7895.9	10162.4	10267.1	10657.6	10901.7	8619.0
67.5°	1189.4	1235.7	1540.0	2127.1	3450.1	6150.6	10616.0	12562.0	12282.0	12411.6	10106.3
70°	876.4	910.6	1100.3	1412.7	1984.2	3609.2	9224.1	14199.7	14015.8	14001.3	11205.4
72°	682.6	707.5	875.3	1141.4	1450.9	2165.3	6685.7	13595.2	14512.1	14439.2	11104.8
72.5°	647.3	669.3	822.0	1074.3	1371.0	1962.8	6011.1	13187.4	14476.2	14443.3	10974.6
75°	509.7	525.3	608.6	830.7	1073.1	1113.6	3293.9	10219.7	12842.0	13376.0	9870.9
77.5°	421.7	424.0	468.0	604.5	836.5	787.3	1618.0	7090.6	9195.8	9782.9	6992.3
80°	343.6	346.5	367.3	424.0	632.9	582.5	768.2	4077.2	5148.6	5155.0	3325.2
82.5°	273.6	274.2	297.3	310.1	454.7	416.5	440.2	1914.2	2249.8	2164.1	1195.2
85°	192.6	188.6	290.4	254.5	297.3	267.3	243.0	757.8	930.2	889.7	374.3
87.5°	64.2	66.5	129.0	164.9	173.5	151.6	108.2	290.4	351.1	348.3	118.6
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°	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0	2067.0
2.5°	2077.4	2058.9	2031.7	2001.6	1977.9	1953.6	1935.6	1926.4	1916.0	1907.3	1917.7
5°	2099.4	2064.6	2006.8	1950.1	1908.5	1871.4	1844.8	1830.9	1818.2	1809.5	1810.7
7.5°	2135.2	2079.1	1981.9	1899.2	1841.3	1801.4	1774.2	1765.0	1756.9	1754.6	1757.5
10°	2173.4	2090.7	1948.9	1839.0	1773.1	1740.1	1728.0	1734.3	1740.1	1745.3	1751.1
12.5°	2216.8	2101.1	1900.9	1768.5	1712.3	1699.6	1711.8	1739.5	1759.8	1771.9	1779.4
15°	2273.5	2110.3	1845.4	1697.9	1660.3	1674.7	1715.8	1763.8	1799.1	1821.7	1825.2
17.5°	2325.5	2109.8	1774.2	1626.7	1618.0	1660.3	1722.2	1789.9	1837.3	1869.1	1875.5
20°	2379.3	2094.2	1691.5	1557.3	1575.2	1644.7	1725.1	1806.6	1863.9	1900.9	1909.6
22.5°	2429.7	2067.0	1600.7	1494.3	1539.4	1623.8	1714.1	1796.8	1854.1	1884.2	1893.4
25°	2463.8	2019.5	1508.7	1441.0	1507.6	1598.4	1678.2	1744.7	1787.5	1802.6	1804.9
27.5°	2481.2	1957.6	1421.9	1394.8	1474.6	1556.7	1611.7	1644.7	1656.8	1655.7	1653.3
30°	2483.5	1876.1	1347.3	1357.1	1436.4	1495.4	1521.4	1515.1	1499.5	1472.8	1475.2
32.5°	2476.0	1784.1	1284.8	1321.3	1387.8	1420.8	1421.9	1391.3	1349.6	1307.4	1295.8
35°	2478.3	1693.8	1229.9	1280.8	1328.8	1343.3	1330.0	1284.8	1228.1	1173.8	1162.2
37.5°	2503.7	1615.2	1182.4	1233.9	1263.4	1266.9	1247.8	1200.4	1158.7	1105.5	1100.9
40°	2564.5	1559.0	1137.3	1181.3	1198.1	1199.8	1172.6	1139.1	1142.5	1114.2	1113.6
42.5°	2673.8	1534.7	1097.4	1126.3	1136.7	1140.2	1119.4	1098.0	1128.1	1109.6	1103.2
45°	2815.0	1540.5	1063.9	1072.5	1091.6	1107.8	1095.1	1069.1	1080.6	1000.2	973.6
47.5°	2978.1	1577.6	1037.2	1026.2	1059.2	1089.9	1070.2	1030.9	989.8	910.0	894.9
50°	3169.0	1634.8	1012.9	980.5	1023.9	1065.6	1045.9	989.8	927.9	889.1	883.9
52.5°	3368.0	1704.8	988.6	930.2	979.4	1047.1	1037.2	980.5	904.2	866.0	859.1
55°	3593.6	1775.4	958.0	871.8	931.4	1038.4	1033.2	947.0	886.3	864.8	859.6
57.5°	3874.2	1855.8	917.5	811.0	886.3	1007.2	991.0	926.7	867.7	851.5	849.8
60°	4239.8	1974.4	859.1	746.3	831.3	959.1	955.7	897.2	838.2	826.7	824.4
62.5°	4788.2	2170.5	778.7	681.5	770.0	877.6	909.4	857.3	807.0	806.4	807.6
65°	5638.6	2465.5	691.3	624.8	708.1	808.7	855.6	816.3	775.2	786.8	788.5
67.5°	6624.3	2710.2	605.7	569.2	645.0	743.4	807.0	775.2	733.0	763.0	763.6
70°	6952.3	2491.6	530.5	514.3	579.7	680.3	754.4	730.1	687.3	717.3	714.4
72°	6469.9	2011.4	481.9	472.6	530.5	628.2	707.5	687.8	645.6	665.8	658.3
72.5°	6317.7	1917.7	469.7	462.2	517.2	614.9	695.4	677.4	635.2	652.5	645.6
75°	5635.7	1665.5	403.8	405.5	451.2	550.1	627.1	621.3	577.9	579.7	577.3
77.5°	4087.6	1221.2	340.2	351.7	384.1	483.6	558.2	554.8	507.3	498.7	496.9
80°	1896.9	623.0	277.1	282.3	315.9	404.4	476.1	471.5	433.3	422.3	415.9
82.5°	649.6	296.2	208.3	211.7	244.7	325.7	413.0	410.2	378.3	356.9	343.6
85°	232.0	147.5	145.8	142.3	174.7	256.3	359.8	344.2	297.3	253.4	252.2
87.5°	75.2	63.1	75.2	74.6	101.8	173.5	261.5	222.7	215.8	179.3	175.9
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)