

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: P798963

Luminaire Tested: **ARCH1-50-722-U-T2R**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-50-722-U-T2R  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

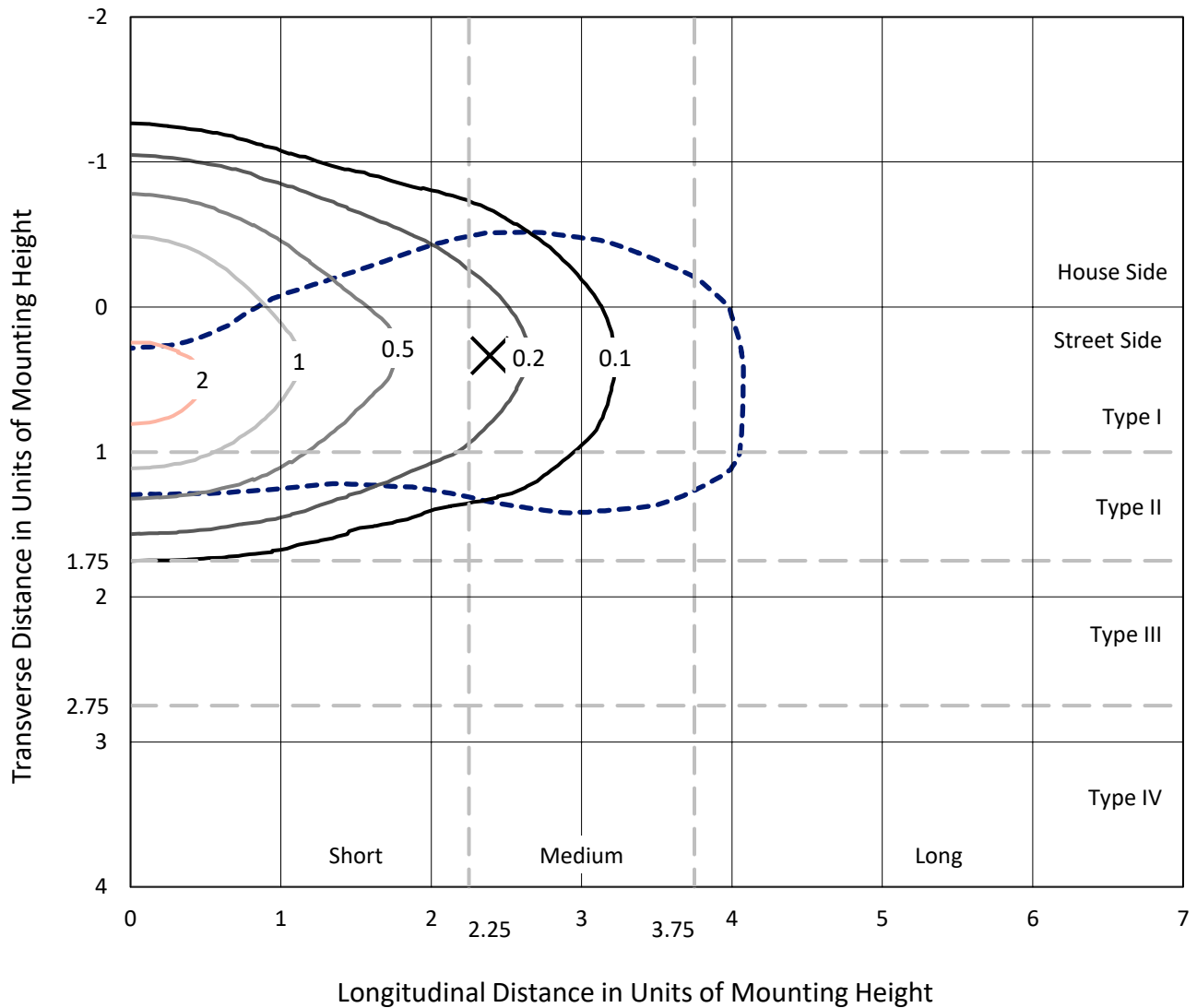
Lumens per Lamp: N/A  
Luminaire Lumens: 5739 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

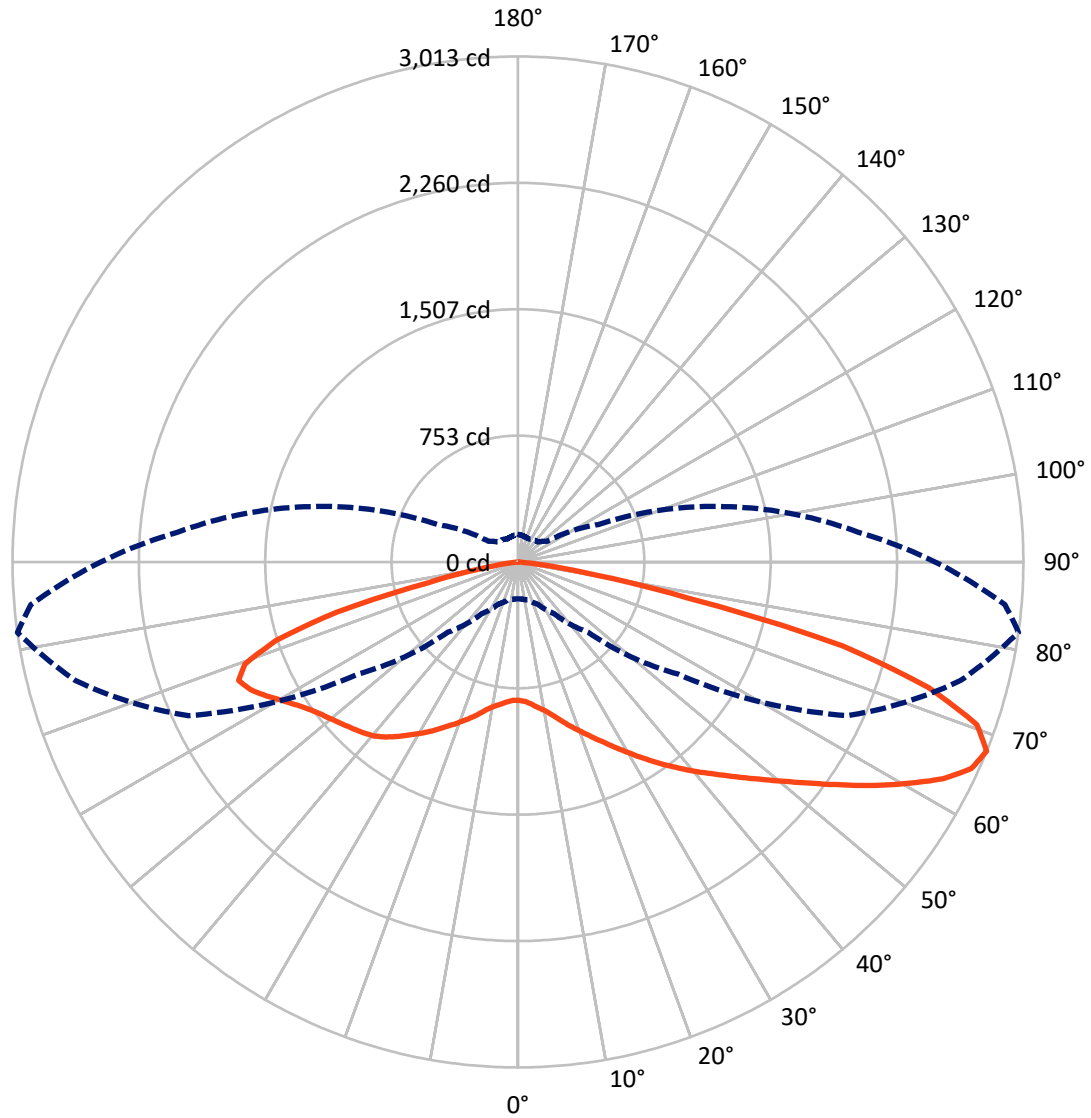
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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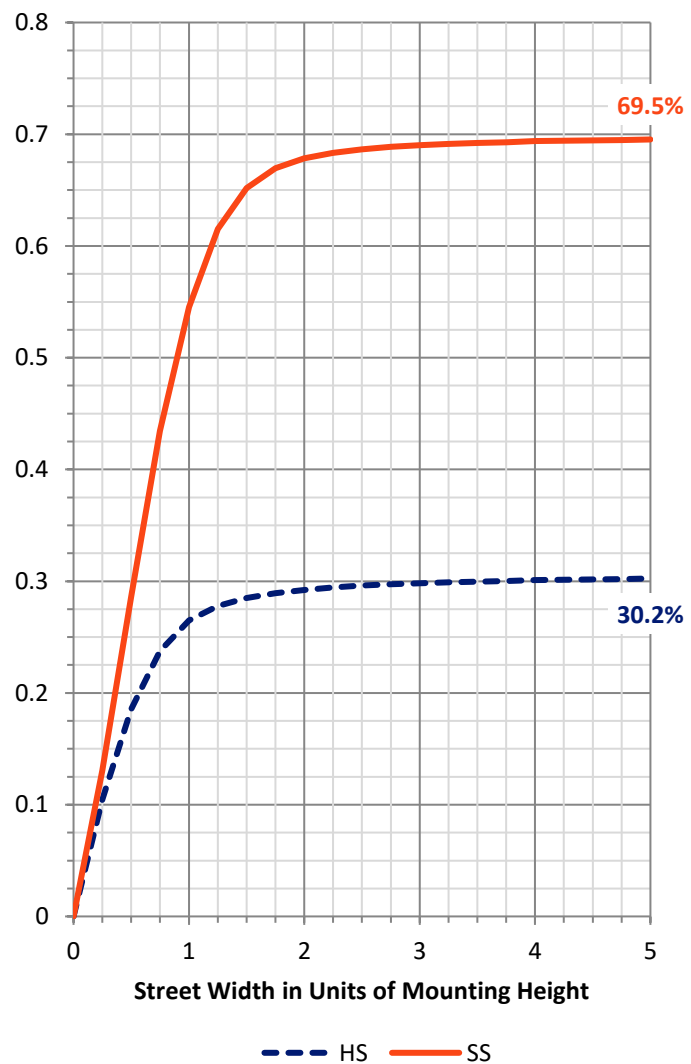
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1747.8	0.0	1747.8
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	3991.2	0.0	3991.2
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	5739.0	0.0	5739.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	1.5
10°-20°	307.1	5.4
20°-30°	617.2	10.8
30°-40°	969.5	16.9
40°-50°	1181.1	20.6
50°-60°	1116.0	19.4
60°-70°	921.5	16.1
70°-80°	501.8	8.7
80°-90°	39.5	0.7
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°	5739.0	100.0
0°-180°	5739.0	100.0

**Coefficient of Utilization**



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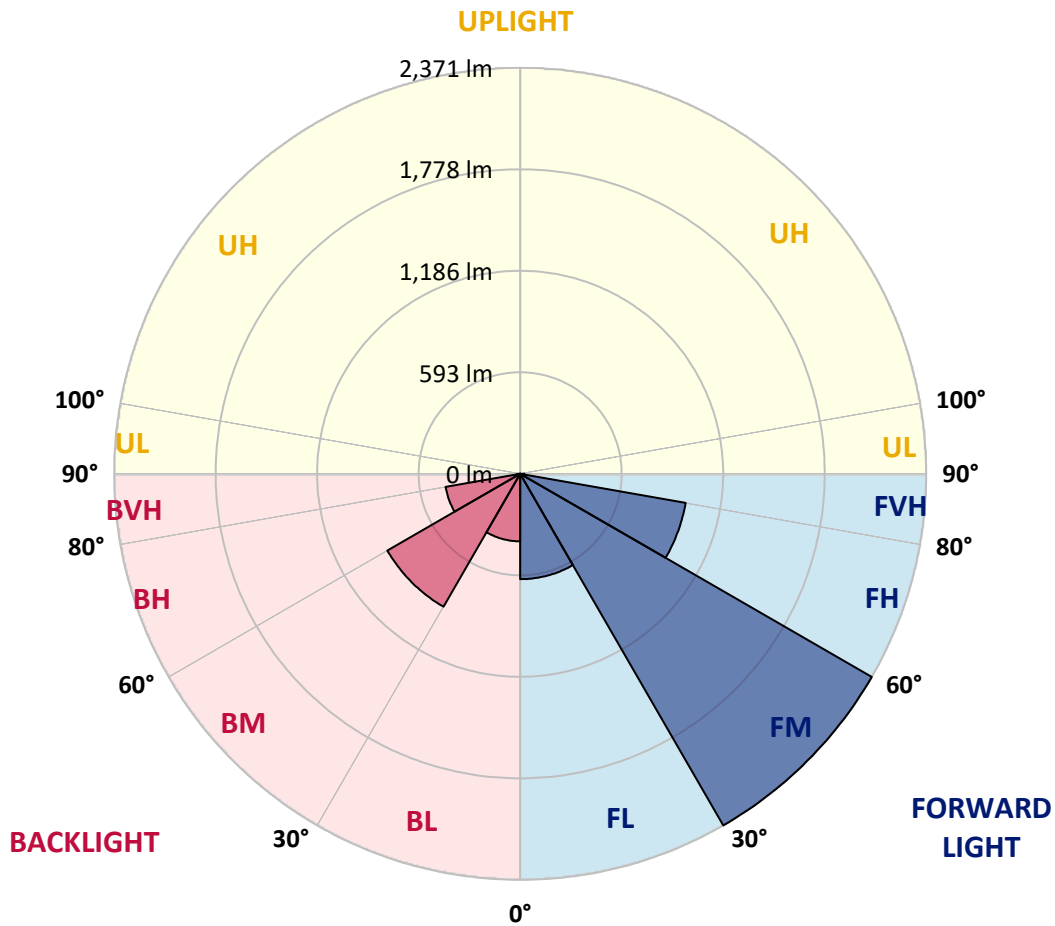
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.4	10.7			
FM (30°-60°)	2371.0	41.3			
FH (60°-80°)	981.0	17.1			G1/1800
FVH (80°-90°)	23.8	0.4			G1/100
BL (0°-30°)	394.1	6.9	B1/500		
BM (30°-60°)	895.6	15.6	B1/1000		
BH (60°-80°)	442.4	7.7	B1/500		G1/500
BVH (80°-90°)	15.7	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-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	862.5	862.5	869.1	869.1	863.3	854.1	851.6	841.6	832.5	832.5	833.3
5°	945.0	944.1	949.1	942.5	928.3	910.0	897.5	875.8	857.5	851.6	850.8
7.5°	1045.8	1045.0	1047.5	1036.6	1010.0	980.0	955.0	920.0	890.0	877.5	874.1
10°	1158.3	1157.5	1155.0	1136.6	1100.8	1054.1	1016.6	968.3	923.3	903.3	899.1
12.5°	1287.5	1285.8	1280.0	1253.3	1204.1	1144.1	1090.0	1027.5	967.5	940.0	930.8
15°	1431.6	1429.1	1418.3	1385.8	1320.0	1244.1	1174.1	1094.1	1020.8	985.0	972.5
17.5°	1583.3	1583.3	1566.6	1518.3	1445.0	1350.8	1264.1	1162.5	1076.6	1032.5	1017.5
20°	1737.5	1736.6	1715.8	1657.5	1570.8	1462.5	1352.5	1240.8	1134.1	1080.8	1062.5
22.5°	1899.9	1898.3	1872.5	1805.8	1702.5	1580.0	1451.6	1318.3	1197.5	1133.3	1110.0
25°	2086.6	2084.1	2052.4	1970.8	1848.3	1710.0	1563.3	1409.1	1270.0	1191.6	1164.1
27.5°	2284.9	2281.6	2244.1	2149.1	2014.9	1848.3	1686.6	1514.1	1350.0	1256.6	1225.8
30°	2461.6	2459.1	2418.3	2320.8	2166.6	1985.8	1804.1	1619.1	1434.1	1325.8	1287.5
32.5°	2594.9	2594.9	2558.3	2462.4	2302.4	2117.4	1922.4	1718.3	1521.6	1400.0	1355.0
35°	2675.8	2678.3	2646.6	2569.9	2419.1	2241.6	2044.9	1835.0	1615.0	1479.1	1430.8
37.5°	2687.4	2695.8	2677.4	2625.8	2499.9	2344.9	2164.9	1947.4	1711.6	1559.1	1505.0
40°	2633.3	2639.1	2639.9	2619.9	2533.3	2419.1	2270.8	2066.6	1814.1	1643.3	1580.8
42.5°	2524.9	2529.1	2536.6	2542.4	2509.1	2451.6	2351.6	2177.4	1923.3	1729.1	1655.8
45°	2384.9	2384.1	2396.6	2421.6	2419.9	2433.3	2396.6	2278.3	2036.6	1826.6	1739.1
47.5°	2175.8	2171.6	2215.8	2272.4	2300.8	2363.3	2397.4	2357.4	2159.9	1934.1	1834.1
50°	1848.3	1844.1	1940.8	2074.1	2157.4	2252.4	2351.6	2404.9	2289.1	2054.9	1937.4
52.5°	1450.0	1445.8	1568.3	1801.6	1983.3	2121.6	2259.1	2415.8	2411.6	2189.9	2054.1
55°	1078.3	1075.0	1194.1	1446.6	1740.8	1969.9	2145.8	2387.4	2526.6	2344.9	2195.8
57.5°	760.0	758.3	861.6	1070.8	1429.1	1785.0	2036.6	2332.4	2632.4	2513.3	2355.8
60°	533.3	530.8	605.8	767.5	1080.8	1505.8	1928.3	2259.1	2711.6	2679.1	2525.8
62.5°	359.2	357.5	410.8	545.8	767.5	1159.1	1764.1	2209.9	2756.6	2845.8	2697.4
65°	272.5	271.7	295.8	370.0	543.3	832.5	1503.3	2204.1	2762.4	2970.8	2843.3
67.5°	220.0	220.8	234.2	276.7	375.8	591.7	1165.8	2167.4	2731.6	3013.3	2914.1
70°	180.0	180.0	185.8	214.2	277.5	399.2	814.1	2000.8	2645.8	2902.4	2829.9
72.5°	137.5	138.3	156.7	173.3	209.2	280.0	521.7	1655.8	2443.3	2559.1	2504.1
75°	109.2	108.3	119.2	142.5	162.5	200.0	320.0	1187.5	2079.1	1999.9	1964.9
77.5°	78.3	77.5	85.8	105.8	123.3	141.7	190.8	599.2	1130.8	1039.1	1013.3
80°	53.3	51.7	59.2	73.3	81.7	83.3	93.3	230.0	493.3	465.0	459.2
82.5°	27.5	27.5	31.7	41.7	42.5	43.3	41.7	74.2	163.3	152.5	145.8
85°	10.8	10.8	11.7	14.2	14.2	15.0	15.0	19.2	17.5	16.7	15.8
87.5°	0.8	0.8	1.7	1.7	2.5	2.5	2.5	3.3	4.2	4.2	4.2
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°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	831.6	828.3	817.5	815.0	813.3	810.8	811.6	805.8	803.3	804.1	800.8
5°	846.6	840.8	827.5	821.6	820.0	817.5	820.0	815.8	811.6	813.3	811.6
7.5°	867.5	859.1	842.5	836.6	835.8	833.3	836.6	833.3	830.0	831.6	828.3
10°	889.1	878.3	860.0	854.1	854.1	853.3	856.6	851.6	848.3	849.1	847.5
12.5°	920.8	906.6	886.6	881.6	879.1	881.6	882.5	875.8	870.0	870.8	868.3
15°	959.1	943.3	921.6	914.1	912.5	911.6	908.3	900.0	892.5	891.6	889.1
17.5°	1000.8	980.8	955.0	947.5	940.0	937.5	929.1	918.3	906.6	906.6	903.3
20°	1040.8	1018.3	987.5	976.6	965.8	955.8	941.6	924.1	909.1	906.6	903.3
22.5°	1084.1	1057.5	1021.6	1005.8	986.6	966.6	942.5	919.1	900.0	895.8	893.3
25°	1132.5	1099.1	1056.6	1033.3	1002.5	971.6	935.8	905.8	883.3	876.6	875.0
27.5°	1185.8	1145.8	1094.1	1060.0	1015.0	966.6	920.8	885.0	857.5	849.1	846.6
30°	1240.0	1192.5	1128.3	1078.3	1015.0	950.8	893.3	851.6	820.0	808.3	806.6
32.5°	1294.1	1240.8	1159.1	1088.3	1005.0	924.1	857.5	808.3	772.5	758.3	761.6
35°	1359.1	1294.1	1187.5	1092.5	988.3	891.6	816.6	759.1	722.5	710.0	712.5
37.5°	1426.6	1347.5	1210.0	1089.1	965.0	855.0	770.8	715.0	669.1	647.5	650.0
40°	1485.0	1395.8	1225.8	1077.5	935.0	813.3	725.8	652.5	589.2	568.3	565.8
42.5°	1540.0	1431.6	1234.1	1060.0	900.8	765.0	661.6	567.5	504.2	478.3	479.2
45°	1597.5	1466.6	1230.8	1036.6	858.3	708.3	579.2	484.2	428.3	405.0	405.8
47.5°	1663.3	1504.1	1227.5	1011.6	806.6	635.0	500.0	410.8	362.5	345.8	344.2
50°	1733.3	1545.8	1223.3	980.8	749.1	553.3	421.7	342.5	301.7	290.8	288.3
52.5°	1812.5	1590.8	1220.8	944.1	680.0	466.7	351.7	282.5	255.0	247.5	246.7
55°	1907.4	1643.3	1224.1	900.0	596.7	385.0	292.5	243.3	225.0	220.8	220.0
57.5°	2023.3	1710.8	1234.1	848.3	509.2	314.2	249.2	219.2	207.5	204.2	204.2
60°	2149.1	1787.5	1252.5	790.0	421.7	259.2	220.8	200.0	195.0	199.2	199.2
62.5°	2284.9	1877.5	1285.0	719.1	340.0	219.2	198.3	184.2	180.8	189.2	190.0
65°	2410.8	1964.9	1305.8	634.1	270.0	190.0	180.8	168.3	170.0	178.3	177.5
67.5°	2488.3	2037.4	1276.6	527.5	214.2	168.3	162.5	151.7	155.8	162.5	163.3
70°	2440.8	1996.6	1132.5	398.3	167.5	146.7	142.5	135.8	139.2	147.5	150.8
72.5°	2208.3	1788.3	880.8	269.2	135.0	123.3	125.0	121.7	125.8	133.3	140.8
75°	1792.5	1351.6	590.8	172.5	106.7	105.0	107.5	105.0	106.7	114.2	118.3
77.5°	935.8	659.1	294.2	107.5	79.2	81.7	85.8	86.7	91.7	93.3	95.0
80°	436.7	296.7	122.5	60.0	52.5	57.5	65.8	66.7	68.3	70.8	71.7
82.5°	142.5	89.2	56.7	32.5	30.0	32.5	42.5	50.8	51.7	56.7	56.7
85°	15.0	9.2	12.5	13.3	11.7	14.2	19.2	18.3	8.3	5.0	5.0
87.5°	4.2	3.3	4.2	4.2	3.3	3.3	2.5	0.8	0.0	0.0	0.0
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)