

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: P798967

Luminaire Tested: **ARCH1-50-722-U-T3**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-50-722-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5652 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

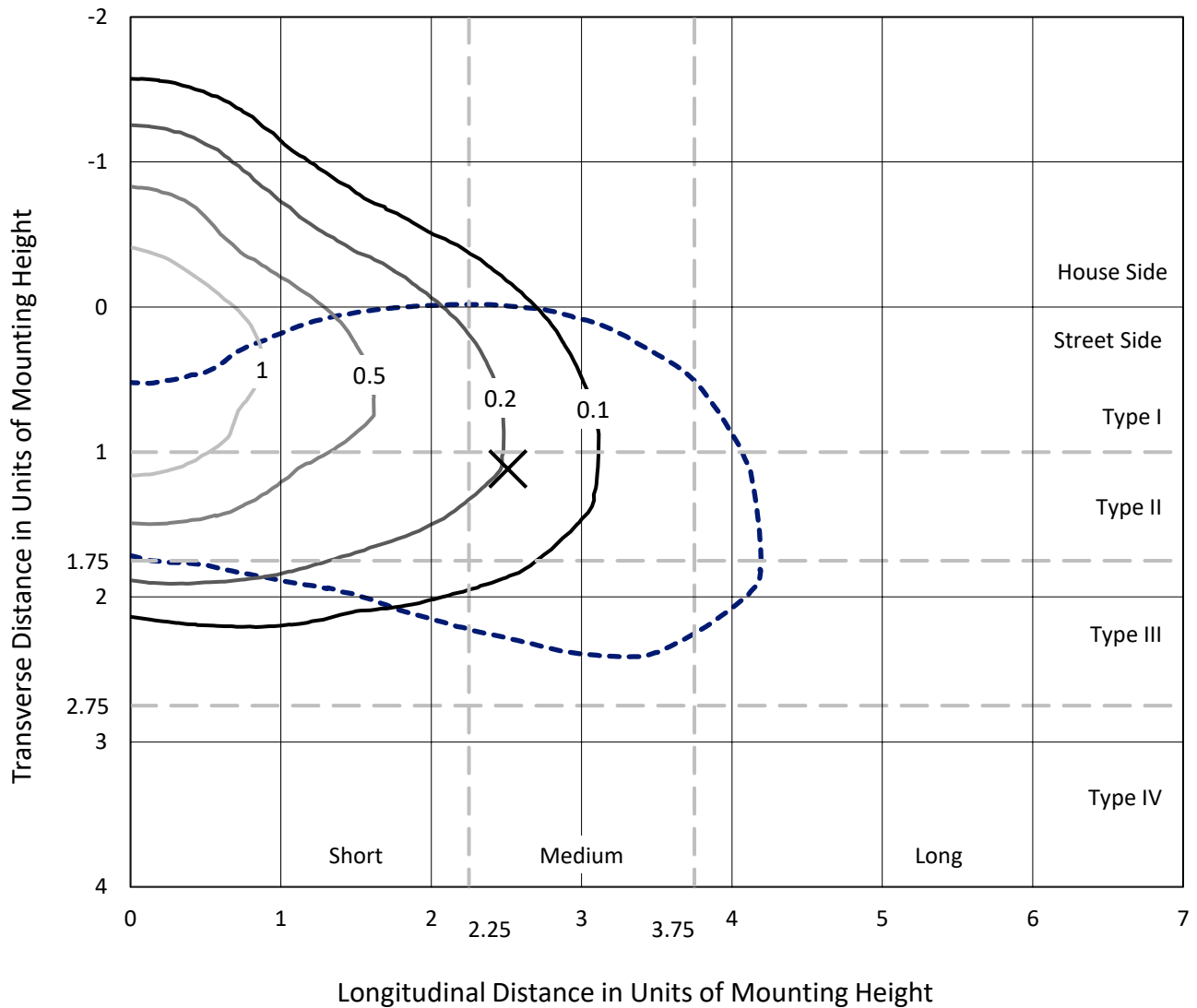
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

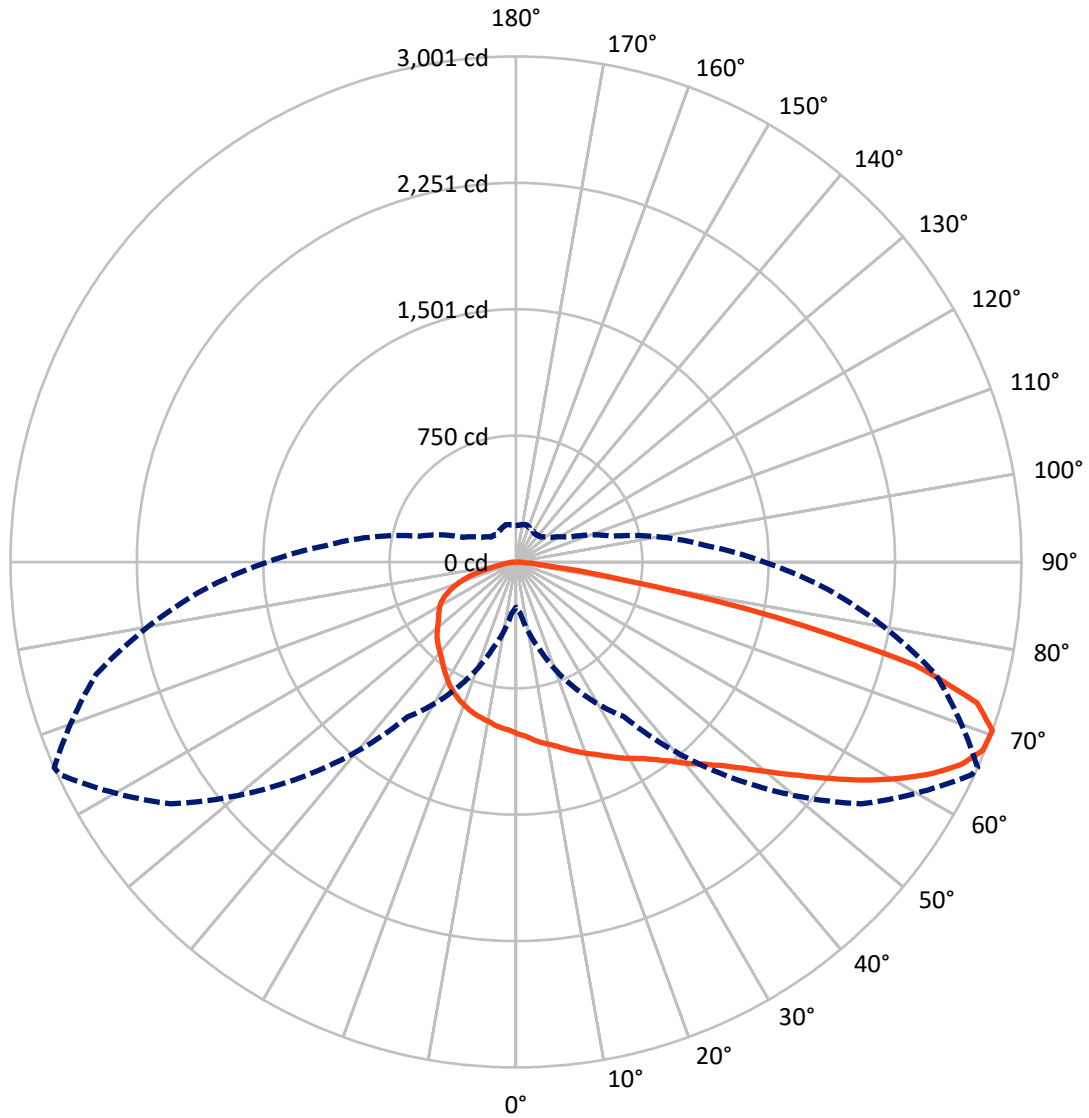
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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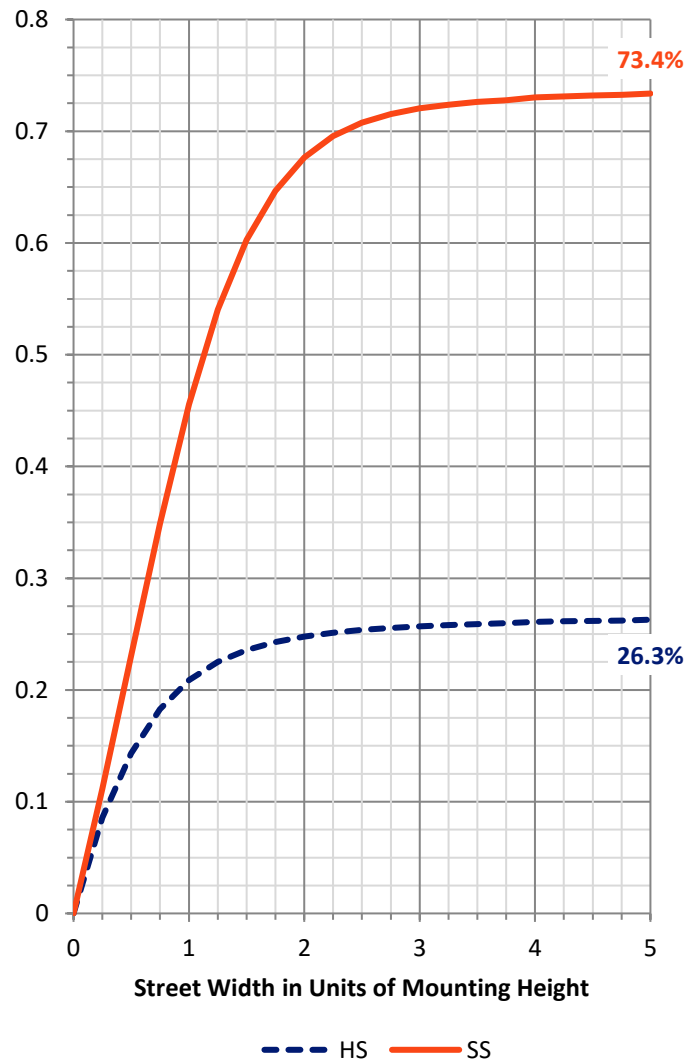
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1497.6	0.0	1497.6
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	4154.3	0.0	4154.3
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	5652.0	0.0	5652.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	1.7
10°-20°	294.0	5.2
20°-30°	492.9	8.7
30°-40°	738.0	13.1
40°-50°	986.7	17.5
50°-60°	1152.0	20.4
60°-70°	1145.5	20.3
70°-80°	678.1	12.0
80°-90°	66.8	1.2
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°	5652.0	100.0
0°-180°	5652.0	100.0

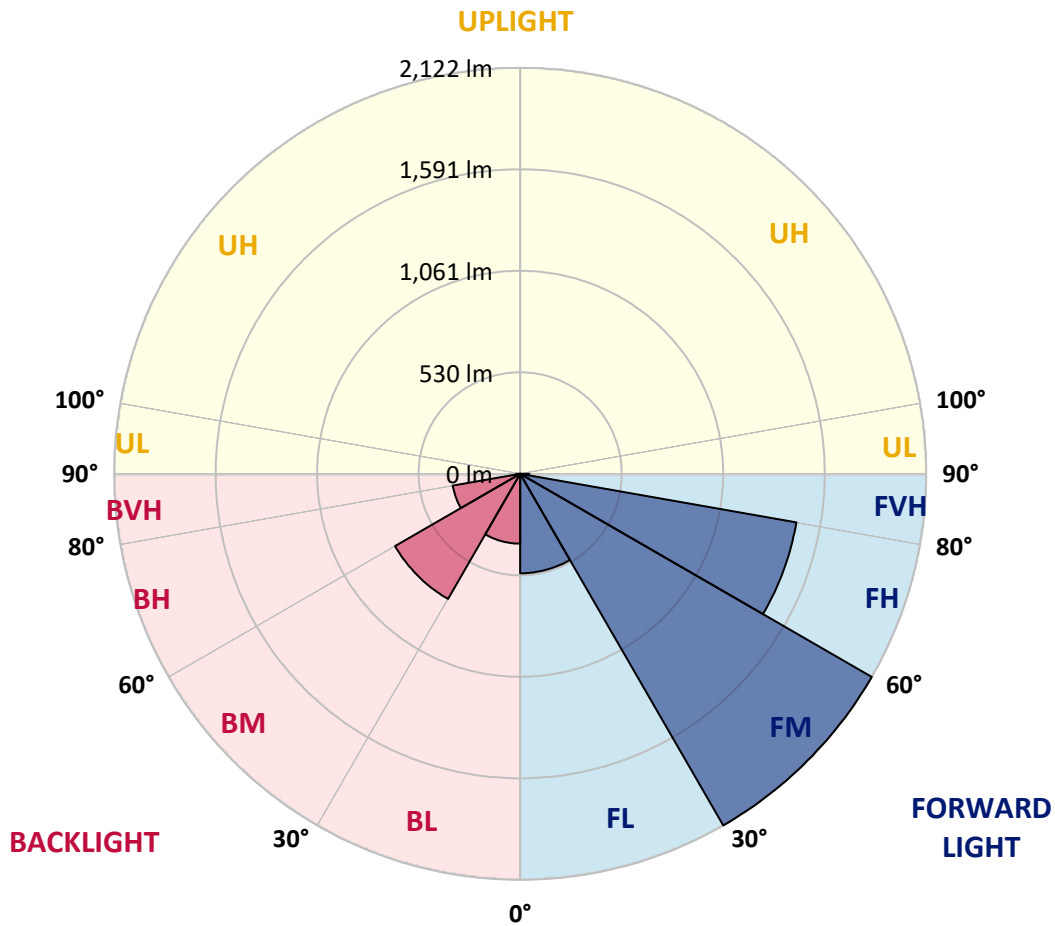


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	519.8	9.2			
FM (30°-60°)	2121.7	37.5			
FH (60°-80°)	1465.9	25.9			G1/1800
FVH (80°-90°)	47.0	0.8			G1/100
BL (0°-30°)	365.1	6.5	B1/500		
BM (30°-60°)	755.0	13.4	B1/1000		
BH (60°-80°)	357.7	6.3	B1/500		G1/500
BVH (80°-90°)	19.9	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1
2.5°	1057.6	1055.9	1055.1	1051.7	1044.2	1047.6	1040.1	1035.1	1034.2	1022.6	1015.9
5°	1100.9	1100.1	1098.4	1093.4	1081.7	1083.4	1070.9	1061.7	1059.2	1040.9	1026.7
7.5°	1137.6	1135.9	1135.1	1128.4	1115.9	1115.1	1100.1	1086.7	1082.6	1057.6	1035.9
10°	1165.9	1163.4	1165.1	1158.4	1145.1	1142.6	1123.4	1105.9	1101.7	1070.1	1040.1
12.5°	1190.1	1188.4	1190.9	1185.1	1174.2	1171.7	1152.6	1130.1	1125.1	1088.4	1049.2
15°	1216.7	1210.9	1215.9	1213.4	1205.9	1205.1	1187.6	1162.6	1155.9	1111.7	1063.4
17.5°	1230.9	1227.6	1233.4	1234.2	1230.9	1236.7	1220.1	1190.1	1184.2	1133.4	1075.9
20°	1240.9	1235.9	1242.6	1247.6	1250.1	1261.7	1248.4	1219.2	1212.6	1154.2	1087.6
22.5°	1275.1	1264.2	1265.1	1268.4	1270.1	1286.7	1278.4	1250.1	1243.4	1180.1	1101.7
25°	1360.9	1339.2	1325.1	1315.1	1303.4	1317.6	1312.6	1285.1	1279.2	1210.9	1119.2
27.5°	1494.3	1466.7	1438.4	1409.2	1363.4	1357.6	1349.2	1324.2	1317.6	1241.7	1136.7
30°	1645.9	1618.4	1585.1	1538.4	1452.6	1407.6	1388.4	1360.9	1353.4	1269.2	1153.4
32.5°	1796.8	1772.6	1739.3	1682.6	1560.1	1468.4	1427.6	1399.2	1391.7	1299.2	1173.4
35°	1914.3	1899.3	1877.6	1806.8	1666.8	1540.1	1484.3	1450.1	1441.7	1346.7	1210.1
37.5°	2009.3	1998.4	1980.1	1905.9	1744.3	1611.8	1549.3	1510.1	1500.9	1398.4	1249.2
40°	2149.3	2121.0	2106.0	1998.4	1811.8	1676.8	1622.6	1581.8	1571.8	1453.4	1280.9
42.5°	2268.5	2247.6	2229.3	2081.0	1875.9	1732.6	1691.8	1654.3	1640.9	1507.6	1315.1
45°	2288.5	2296.8	2287.6	2121.8	1977.6	1787.6	1761.8	1737.6	1725.1	1580.9	1366.7
47.5°	2289.3	2289.3	2235.1	2145.1	2103.5	1849.3	1836.8	1845.1	1831.8	1674.3	1428.4
50°	2229.3	2240.1	2211.8	2151.0	2136.8	1910.9	1928.4	1973.4	1960.1	1773.4	1495.1
52.5°	2105.1	2141.0	2140.1	2141.8	2088.5	1963.4	2025.1	2127.6	2105.1	1885.1	1565.9
55°	1885.9	1957.6	2021.8	2076.8	2046.8	1995.1	2143.5	2291.8	2268.5	2010.1	1637.6
57.5°	1698.4	1744.3	1824.3	1980.1	1997.6	2022.6	2254.3	2463.5	2442.6	2148.5	1712.6
60°	1484.3	1547.6	1627.6	1849.3	1937.6	2058.4	2376.0	2631.0	2611.0	2288.5	1785.1
62.5°	1155.1	1236.7	1396.7	1648.4	1850.1	2081.0	2471.8	2778.5	2769.3	2421.0	1850.1
65°	805.0	877.5	1101.7	1401.7	1710.9	2070.9	2548.5	2910.2	2901.8	2529.3	1895.9
67.5°	470.0	554.2	807.5	1128.4	1465.1	2001.8	2573.5	2987.7	2987.7	2595.1	1908.4
70°	268.3	307.5	532.5	822.5	1123.4	1810.9	2503.5	2986.8	3001.0	2580.1	1856.8
72.5°	187.5	205.0	358.4	553.4	761.7	1465.1	2320.1	2842.7	2861.8	2438.5	1680.1
75°	145.8	158.3	252.5	377.5	480.0	995.1	1919.3	2396.8	2447.6	2078.5	1358.4
77.5°	110.8	120.0	147.5	235.8	307.5	571.7	1266.7	1571.8	1575.1	1272.6	728.4
80°	80.8	90.0	98.3	144.2	163.3	267.5	478.4	656.7	638.4	615.9	394.2
82.5°	48.3	57.5	60.0	78.3	80.0	114.2	167.5	211.7	203.3	270.8	185.0
85°	20.8	29.2	30.8	35.8	34.2	46.7	66.7	55.8	50.0	57.5	40.0
87.5°	5.0	8.3	8.3	9.2	7.5	11.7	12.5	9.2	8.3	10.0	10.0
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°	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1	1020.1
2.5°	1014.2	1011.7	1012.6	998.4	994.2	990.1	987.6	985.9	984.2	986.7	989.2
5°	1021.7	1015.9	1009.2	988.4	980.1	970.9	964.2	958.4	955.9	955.9	958.4
7.5°	1027.6	1017.6	1003.4	975.9	960.9	948.4	937.6	930.1	925.9	925.9	928.4
10°	1028.4	1014.2	991.7	958.4	938.4	920.1	907.6	899.2	893.4	893.4	895.1
12.5°	1033.4	1014.2	985.1	945.1	920.1	897.6	882.5	870.0	867.5	867.5	869.2
15°	1041.7	1018.4	980.9	933.4	903.4	877.5	860.9	847.5	842.5	845.9	846.7
17.5°	1049.2	1020.9	973.4	918.4	882.5	854.2	835.9	824.2	817.5	825.0	825.0
20°	1054.2	1020.9	962.6	899.2	860.0	828.4	810.9	796.7	791.7	800.9	801.7
22.5°	1061.7	1020.1	950.9	880.0	835.9	802.5	785.0	774.2	771.7	781.7	785.0
25°	1070.1	1021.7	938.4	858.4	809.2	776.7	763.4	758.4	760.0	772.5	776.7
27.5°	1079.2	1025.1	925.9	834.2	780.0	750.9	743.4	745.9	752.5	768.4	773.4
30°	1087.6	1025.9	908.4	805.9	746.7	719.2	722.5	733.4	743.4	759.2	765.0
32.5°	1098.4	1026.7	890.0	775.0	710.9	690.9	705.9	723.4	733.4	748.4	755.0
35°	1125.1	1040.9	875.9	745.0	677.5	666.7	691.7	714.2	720.0	733.4	739.2
37.5°	1155.9	1064.2	868.4	714.2	645.0	642.5	674.2	696.7	698.4	706.7	712.5
40°	1175.1	1074.2	860.0	688.4	615.9	617.5	650.0	667.5	664.2	670.0	674.2
42.5°	1194.2	1077.6	842.5	666.7	588.4	590.0	615.0	627.5	629.2	641.7	647.5
45°	1226.7	1086.7	823.4	646.7	563.4	557.5	572.5	589.2	610.9	635.0	641.7
47.5°	1270.1	1105.9	803.4	622.5	539.2	520.0	525.9	555.0	577.5	600.0	604.2
50°	1314.2	1125.1	785.0	593.4	515.0	480.0	482.5	509.2	527.5	545.0	547.5
52.5°	1357.6	1141.7	769.2	565.9	487.5	432.5	442.5	470.0	482.5	490.9	493.4
55°	1400.9	1155.9	755.0	542.5	455.9	395.0	404.2	430.0	442.5	446.7	448.4
57.5°	1445.9	1172.6	744.2	522.5	420.0	361.7	367.5	385.9	397.5	402.5	400.9
60°	1483.4	1186.7	738.4	501.7	384.2	330.9	329.2	345.9	362.5	367.5	365.9
62.5°	1512.6	1195.9	729.2	475.0	352.5	300.0	291.7	313.4	330.9	334.2	336.7
65°	1528.4	1196.7	706.7	440.9	320.0	266.7	260.8	282.5	293.3	296.7	296.7
67.5°	1525.9	1183.4	662.5	395.0	290.0	236.7	231.7	245.0	260.8	263.3	260.8
70°	1474.2	1128.4	591.7	346.7	254.2	210.0	200.8	214.2	229.2	220.0	215.8
72.5°	1327.6	985.9	487.5	293.3	214.2	176.7	172.5	185.8	186.7	188.3	184.2
75°	1047.6	734.2	365.0	228.3	173.3	148.3	147.5	145.0	148.3	155.0	150.0
77.5°	550.0	366.7	197.5	140.0	125.8	119.2	113.3	112.5	122.5	126.7	121.7
80°	298.4	205.8	113.3	84.2	76.7	77.5	85.0	83.3	94.2	96.7	92.5
82.5°	130.0	97.5	55.8	50.8	50.8	50.0	52.5	58.3	70.0	70.0	55.8
85°	28.3	24.2	21.7	25.0	28.3	28.3	28.3	28.3	20.0	10.8	7.5
87.5°	9.2	9.2	9.2	10.0	10.8	10.8	9.2	6.7	4.2	0.8	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)