

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: P799095

Luminaire Tested: **ARCH1-60-722-U-T3**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799095  
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: ARCH1-60-722-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6126 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

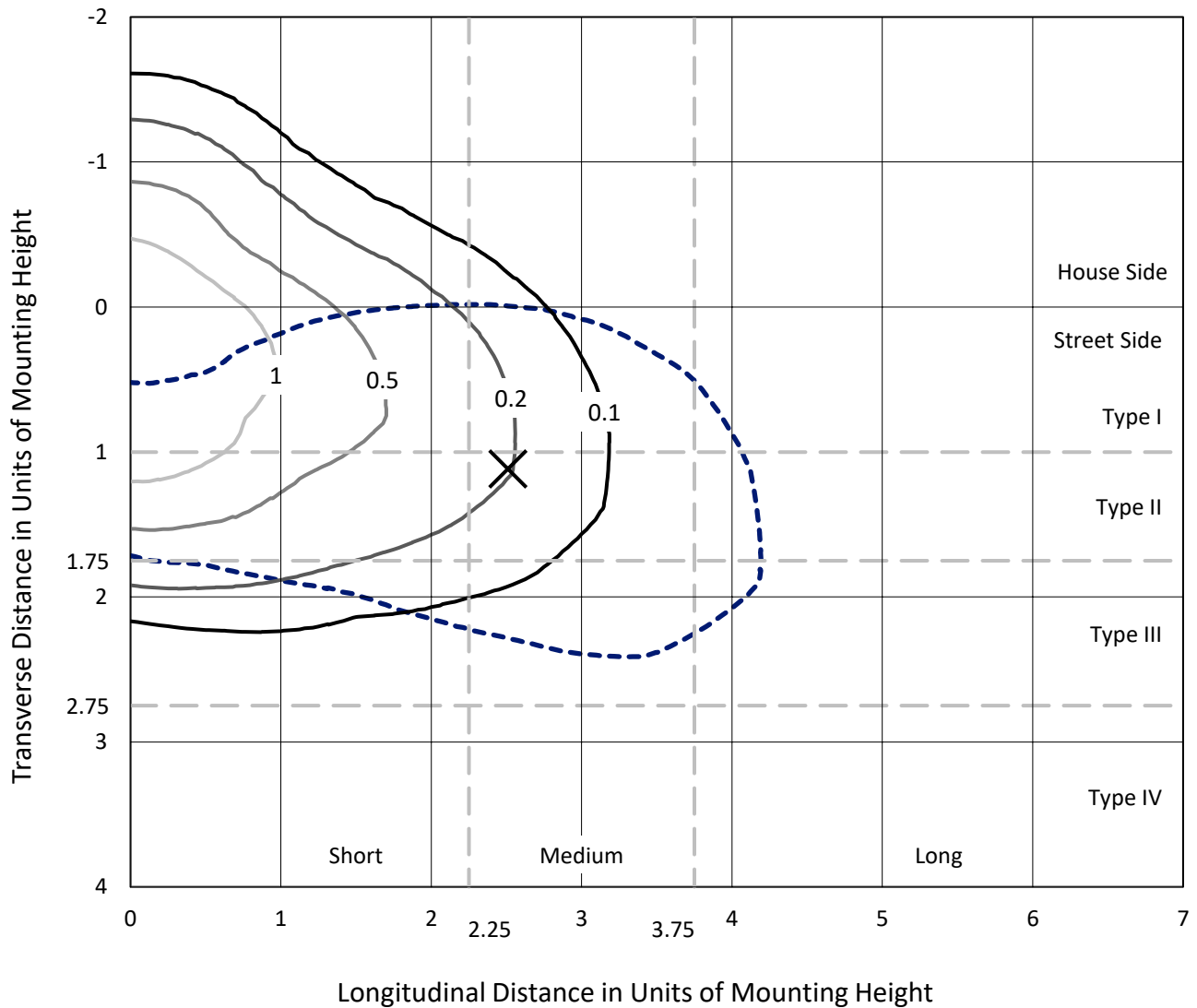
Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

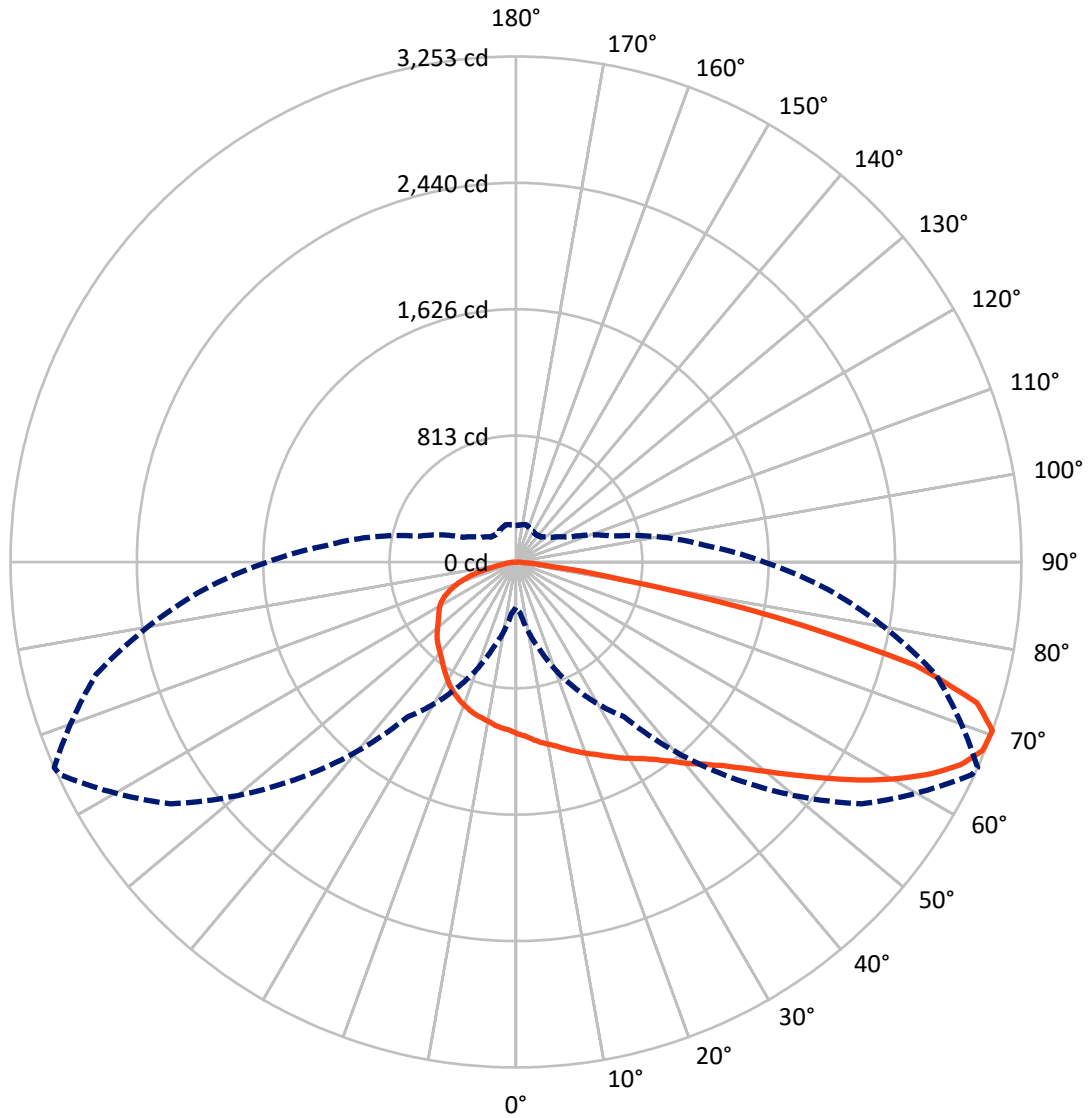
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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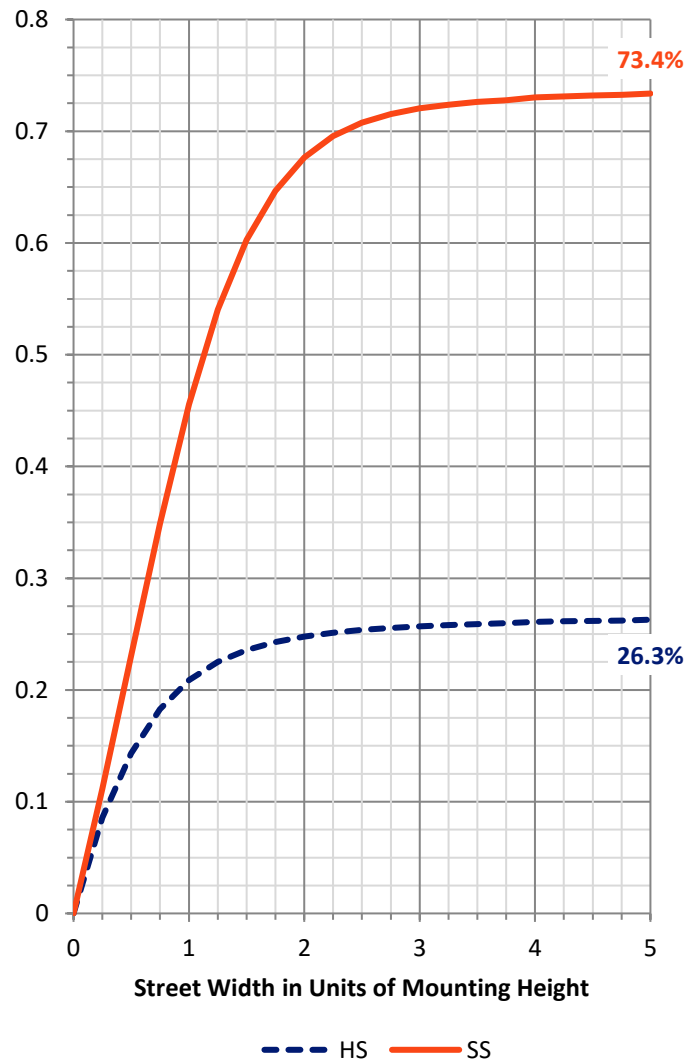
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1623.2	0.0	1623.2
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	4502.7	0.0	4502.7
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	6126.0	0.0	6126.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.2	1.7
10°-20°	318.7	5.2
20°-30°	534.2	8.7
30°-40°	799.9	13.1
40°-50°	1069.4	17.5
50°-60°	1248.6	20.4
60°-70°	1241.5	20.3
70°-80°	735.0	12.0
80°-90°	72.4	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°	6126.0	100.0
0°-180°	6126.0	100.0

**Coefficient of Utilization**

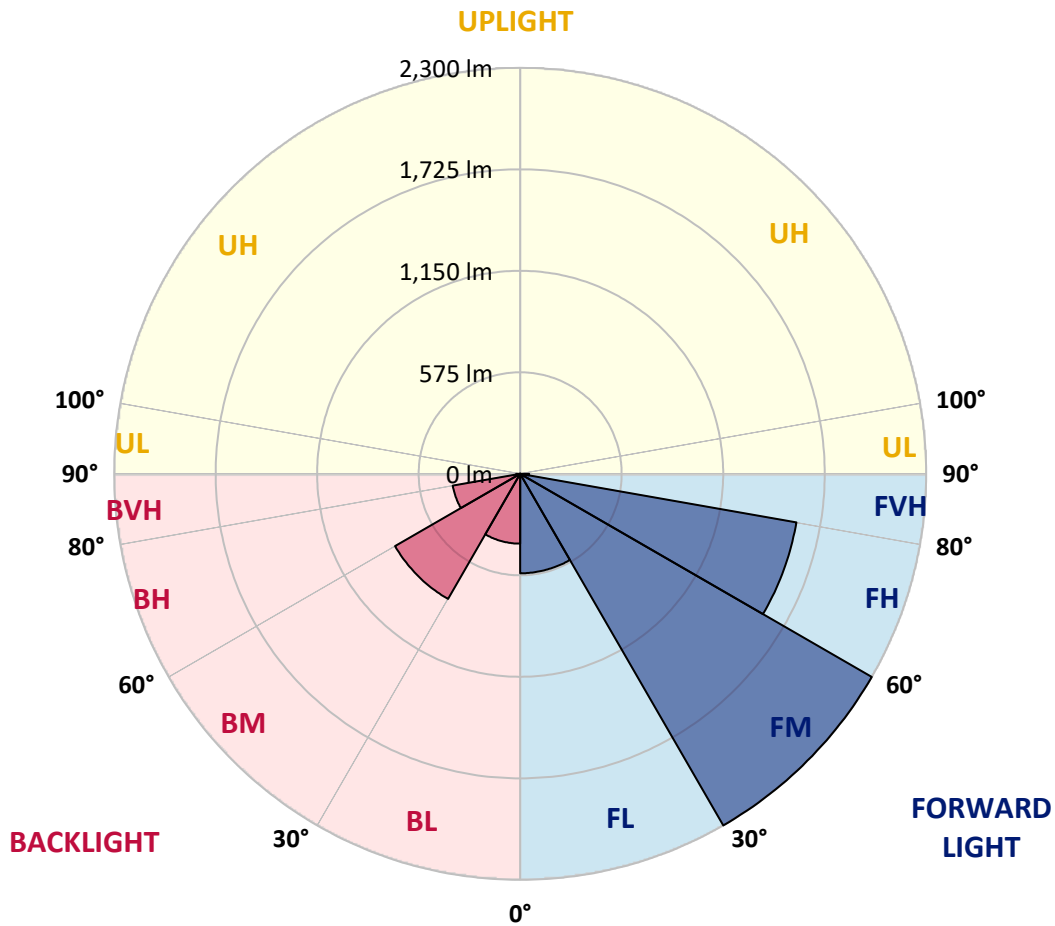


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.4	9.2			
FM (30°-60°)	2299.6	37.5			
FH (60°-80°)	1588.8	25.9			G1/1800
FVH (80°-90°)	50.9	0.8			G1/100
BL (0°-30°)	395.7	6.5	B1/500		
BM (30°-60°)	818.3	13.4	B1/1000		
BH (60°-80°)	387.8	6.3	B1/500		G1/500
BVH (80°-90°)	21.5	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°	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6
2.5°	1146.3	1144.4	1143.5	1139.9	1131.8	1135.4	1127.3	1121.9	1121.0	1108.3	1101.1
5°	1193.2	1192.3	1190.5	1185.1	1172.4	1174.3	1160.7	1150.8	1148.1	1128.2	1112.8
7.5°	1233.0	1231.2	1230.3	1223.0	1209.5	1208.6	1192.3	1177.9	1173.3	1146.3	1122.8
10°	1263.7	1261.0	1262.8	1255.5	1241.1	1238.4	1217.6	1198.6	1194.1	1159.8	1127.3
12.5°	1289.9	1288.1	1290.8	1284.5	1272.7	1270.0	1249.2	1224.8	1219.4	1179.7	1137.2
15°	1318.8	1312.5	1317.9	1315.2	1307.0	1306.1	1287.2	1260.1	1252.8	1205.0	1152.6
17.5°	1334.1	1330.5	1336.8	1337.7	1334.1	1340.5	1322.4	1289.9	1283.5	1228.4	1166.1
20°	1345.0	1339.6	1346.8	1352.2	1354.9	1367.6	1353.1	1321.5	1314.3	1251.0	1178.8
22.5°	1382.0	1370.3	1371.2	1374.8	1376.6	1394.7	1385.6	1354.9	1347.7	1279.0	1194.1
25°	1475.0	1451.6	1436.2	1425.4	1412.7	1428.1	1422.7	1392.8	1386.5	1312.5	1213.1
27.5°	1619.6	1589.8	1559.0	1527.4	1477.8	1471.4	1462.4	1435.3	1428.1	1345.9	1232.1
30°	1784.0	1754.2	1718.0	1667.4	1574.4	1525.6	1504.8	1475.0	1466.9	1375.7	1250.1
32.5°	1947.5	1921.3	1885.1	1823.7	1690.9	1591.6	1547.3	1516.6	1508.5	1408.2	1271.8
35°	2074.8	2058.6	2035.1	1958.3	1806.5	1669.2	1608.7	1571.7	1562.7	1459.7	1311.5
37.5°	2177.8	2166.0	2146.2	2065.8	1890.5	1746.9	1679.2	1636.7	1626.8	1515.7	1354.0
40°	2329.5	2298.8	2282.6	2166.0	1963.7	1817.4	1758.7	1714.4	1703.6	1575.3	1388.3
42.5°	2458.7	2436.1	2416.2	2255.5	2033.3	1877.9	1833.6	1793.0	1778.5	1634.0	1425.4
45°	2480.4	2489.4	2479.5	2299.7	2143.5	1937.5	1909.5	1883.3	1869.8	1713.5	1481.4
47.5°	2481.3	2481.3	2422.6	2325.0	2279.9	2004.4	1990.8	1999.8	1985.4	1814.7	1548.2
50°	2416.2	2428.0	2397.3	2331.3	2316.0	2071.2	2090.2	2138.9	2124.5	1922.2	1620.5
52.5°	2281.7	2320.5	2319.6	2321.4	2263.6	2128.1	2194.9	2306.1	2281.7	2043.2	1697.2
55°	2044.1	2121.8	2191.3	2251.0	2218.4	2162.4	2323.2	2484.0	2458.7	2178.7	1774.9
57.5°	1840.9	1890.5	1977.3	2146.2	2165.1	2192.2	2443.3	2670.1	2647.5	2328.6	1856.2
60°	1608.7	1677.4	1764.1	2004.4	2100.1	2231.1	2575.2	2851.6	2829.9	2480.4	1934.8
62.5°	1251.9	1340.5	1513.9	1786.7	2005.3	2255.5	2679.1	3011.5	3001.6	2624.0	2005.3
65°	872.6	951.1	1194.1	1519.3	1854.4	2244.6	2762.2	3154.2	3145.2	2741.4	2054.9
67.5°	509.4	600.7	875.3	1223.0	1588.0	2169.7	2789.3	3238.2	3238.2	2812.8	2068.5
70°	290.9	333.3	577.2	891.5	1217.6	1962.8	2713.4	3237.3	3252.7	2796.5	2012.5
72.5°	203.2	222.2	388.4	599.8	825.6	1588.0	2514.7	3081.1	3101.8	2643.0	1821.0
75°	158.1	171.6	273.7	409.2	520.3	1078.5	2080.2	2597.8	2652.9	2252.8	1472.3
77.5°	120.1	130.1	159.9	255.6	333.3	619.6	1373.0	1703.6	1707.2	1379.3	789.5
80°	87.6	97.6	106.6	156.3	177.0	289.9	518.5	711.8	691.9	667.5	427.2
82.5°	52.4	62.3	65.0	84.9	86.7	123.7	181.6	229.4	220.4	293.6	200.5
85°	22.6	31.6	33.4	38.8	37.0	50.6	72.3	60.5	54.2	62.3	43.4
87.5°	5.4	9.0	9.0	9.9	8.1	12.6	13.5	9.9	9.0	10.8	10.8
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°	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6
2.5°	1099.3	1096.6	1097.5	1082.1	1077.6	1073.1	1070.4	1068.6	1066.8	1069.5	1072.2
5°	1107.4	1101.1	1093.9	1071.3	1062.2	1052.3	1045.1	1038.8	1036.1	1036.1	1038.8
7.5°	1113.7	1102.9	1087.5	1057.7	1041.5	1027.9	1016.2	1008.1	1003.5	1003.5	1006.2
10°	1114.6	1099.3	1074.9	1038.8	1017.1	997.2	983.7	974.6	968.3	968.3	970.1
12.5°	1120.1	1099.3	1067.7	1024.3	997.2	972.8	956.6	943.0	940.3	940.3	942.1
15°	1129.1	1103.8	1063.1	1011.7	979.1	951.1	933.1	918.6	913.2	916.8	917.7
17.5°	1137.2	1106.5	1055.0	995.4	956.6	925.9	906.0	893.3	886.1	894.2	894.2
20°	1142.6	1106.5	1043.3	974.6	932.2	897.9	878.9	863.5	858.1	868.0	868.9
22.5°	1150.8	1105.6	1030.6	953.9	906.0	869.8	850.9	839.1	836.4	847.3	850.9
25°	1159.8	1107.4	1017.1	930.4	877.1	841.8	827.4	822.0	823.8	837.3	841.8
27.5°	1169.7	1111.0	1003.5	904.2	845.5	813.8	805.7	808.4	815.7	832.8	838.2
30°	1178.8	1111.9	984.6	873.5	809.3	779.5	783.1	794.9	805.7	822.9	829.2
32.5°	1190.5	1112.8	964.7	840.0	770.5	748.8	765.1	784.0	794.9	811.1	818.4
35°	1219.4	1128.2	949.3	807.5	734.4	722.6	749.7	774.1	780.4	794.9	801.2
37.5°	1252.8	1153.5	941.2	774.1	699.1	696.4	730.7	755.1	756.9	766.0	772.3
40°	1273.6	1164.3	932.2	746.1	667.5	669.3	704.6	723.5	719.9	726.2	730.7
42.5°	1294.4	1167.9	913.2	722.6	637.7	639.5	666.6	680.2	682.0	695.5	701.8
45°	1329.6	1177.9	892.4	700.9	610.6	604.3	620.5	638.6	662.1	688.3	695.5
47.5°	1376.6	1198.6	870.8	674.7	584.4	563.6	570.0	601.6	626.0	650.4	654.9
50°	1424.5	1219.4	850.9	643.1	558.2	520.3	523.0	551.9	571.8	590.7	593.4
52.5°	1471.4	1237.5	833.7	613.3	528.4	468.8	479.6	509.4	523.0	532.0	534.7
55°	1518.4	1252.8	818.4	588.0	494.1	428.2	438.1	466.1	479.6	484.2	486.0
57.5°	1567.2	1270.9	806.6	566.4	455.2	392.0	398.3	418.2	430.9	436.3	434.5
60°	1607.8	1286.3	800.3	543.8	416.4	358.6	356.8	374.9	392.9	398.3	396.5
62.5°	1639.4	1296.2	790.4	514.9	382.1	325.2	316.1	339.6	358.6	362.2	364.9
65°	1656.6	1297.1	766.0	477.8	346.9	289.0	282.7	306.2	318.0	321.6	321.6
67.5°	1653.9	1282.6	718.1	428.2	314.3	256.5	251.1	265.6	282.7	285.4	282.7
70°	1597.9	1223.0	641.3	375.8	275.5	227.6	217.7	232.1	248.4	238.5	233.9
72.5°	1438.9	1068.6	528.4	318.0	232.1	191.5	187.0	201.4	202.3	204.1	199.6
75°	1135.4	795.8	395.6	247.5	187.9	160.8	159.9	157.2	160.8	168.0	162.6
77.5°	596.2	397.4	214.1	151.7	136.4	129.2	122.8	121.9	132.8	137.3	131.9
80°	323.4	223.1	122.8	91.2	83.1	84.0	92.1	90.3	102.1	104.8	100.3
82.5°	140.9	105.7	60.5	55.1	55.1	54.2	56.9	63.2	75.9	75.9	60.5
85°	30.7	26.2	23.5	27.1	30.7	30.7	30.7	30.7	21.7	11.7	8.1
87.5°	9.9	9.9	9.9	10.8	11.7	11.7	9.9	7.2	4.5	0.9	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)