

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: P799097

Luminaire Tested: **ARCH1-60-722-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5935 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

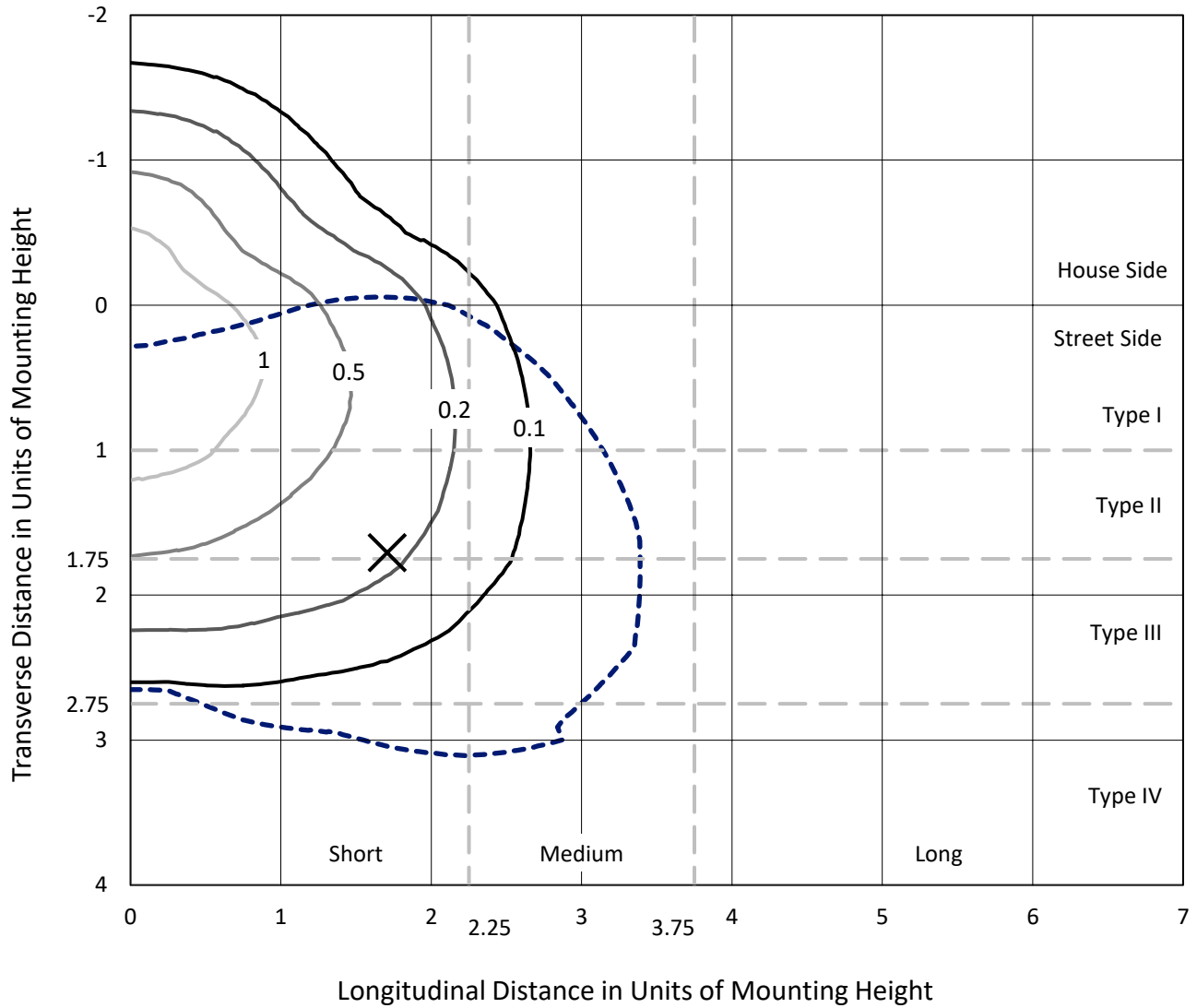
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

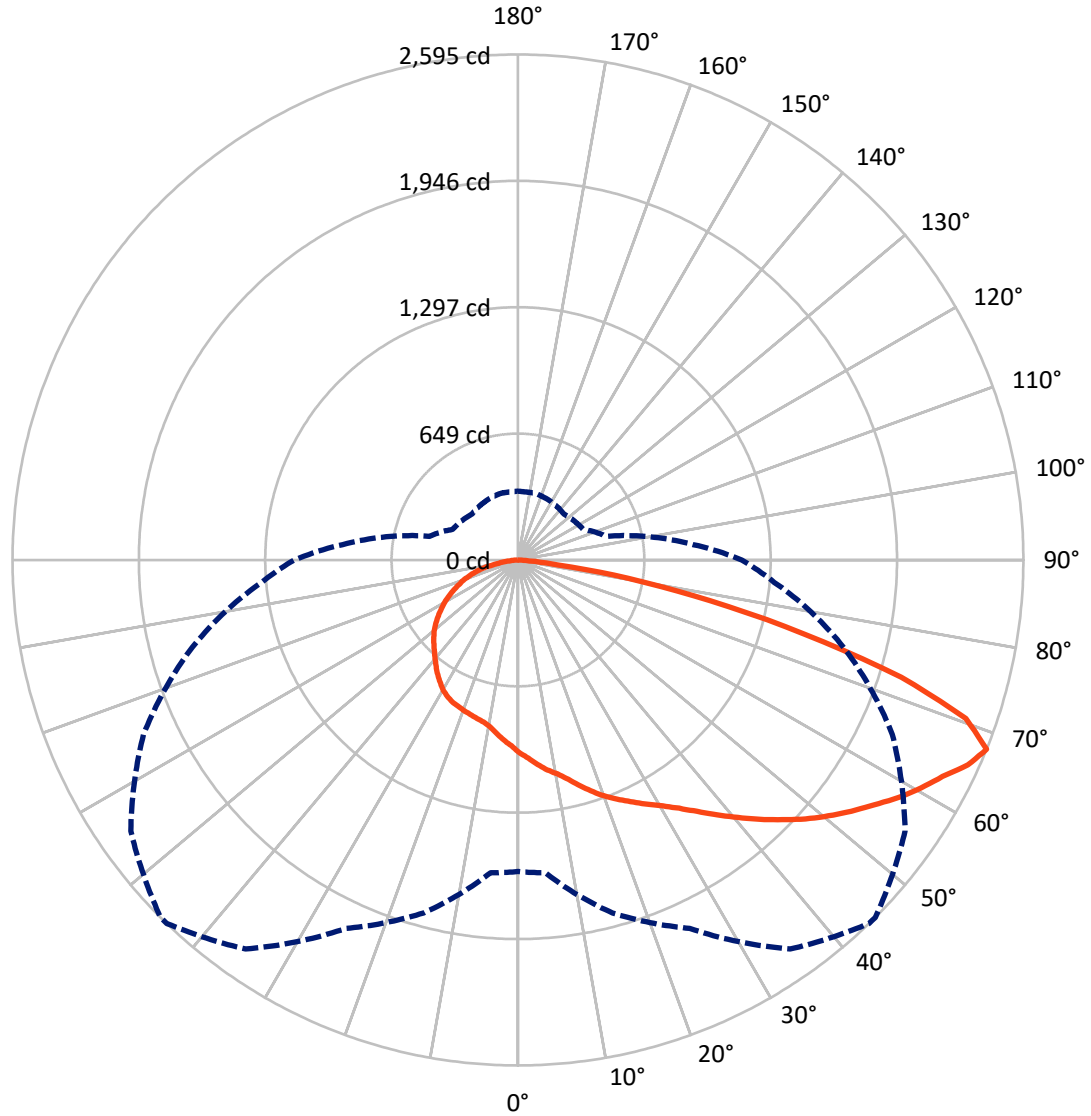
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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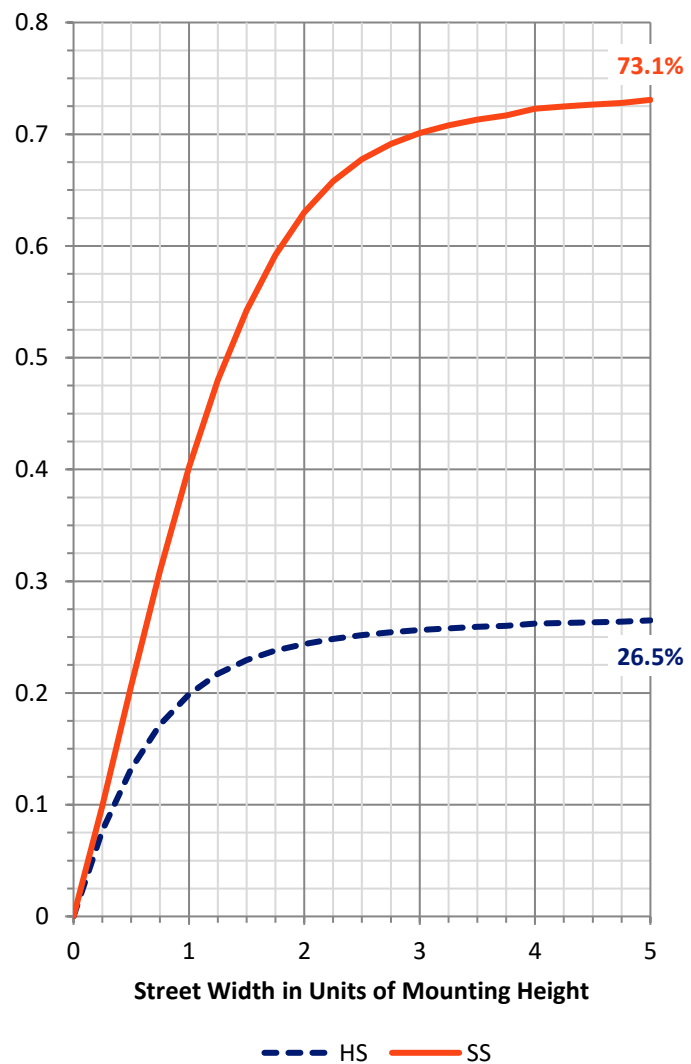
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1585.5	0.0	1585.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	4349.5	0.0	4349.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	5935.0	0.0	5935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.6
10°-20°	292.8	4.9
20°-30°	505.3	8.5
30°-40°	745.2	12.6
40°-50°	1009.6	17.0
50°-60°	1234.0	20.8
60°-70°	1272.7	21.4
70°-80°	697.1	11.7
80°-90°	83.5	1.4
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°	5935.0	100.0
0°-180°	5935.0	100.0

Coefficient of Utilization



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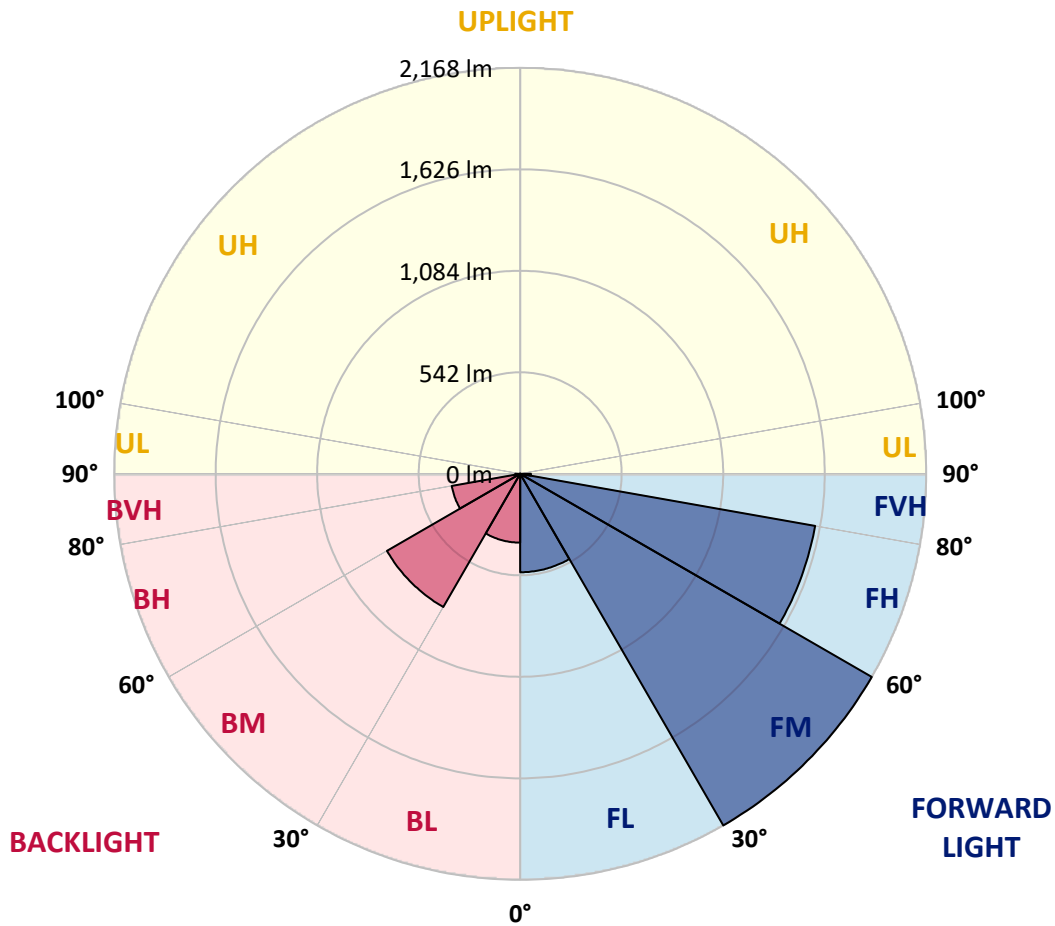
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.4	8.9			
FM (30°-60°)	2167.5	36.5			
FH (60°-80°)	1599.0	26.9			G1/1800
FVH (80°-90°)	57.6	1.0			G1/100
BL (0°-30°)	367.5	6.2	B1/500		
BM (30°-60°)	821.3	13.8	B1/1000		
BH (60°-80°)	370.8	6.2	B1/500		G1/500
BVH (80°-90°)	26.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8
2.5°	1033.2	1032.3	1034.1	1027.8	1019.6	1018.7	1018.7	1013.3	1007.0	994.4	984.4
5°	1082.0	1080.2	1081.1	1072.0	1061.2	1055.8	1054.9	1043.1	1028.7	1008.8	990.7
7.5°	1127.1	1125.3	1124.4	1114.5	1098.2	1089.2	1088.3	1071.1	1054.0	1023.3	997.1
10°	1169.6	1167.8	1166.0	1152.4	1132.5	1119.0	1117.2	1095.5	1073.8	1035.9	1002.5
12.5°	1223.8	1220.1	1218.3	1202.1	1173.2	1158.7	1156.0	1127.1	1100.0	1054.0	1013.3
15°	1280.7	1277.9	1275.2	1259.9	1227.4	1208.4	1203.9	1167.8	1130.7	1077.5	1029.6
17.5°	1323.1	1320.4	1320.4	1306.8	1277.0	1255.4	1251.8	1208.4	1162.3	1099.1	1042.2
20°	1349.3	1346.6	1349.3	1341.2	1318.6	1300.5	1296.9	1249.0	1194.0	1119.0	1053.1
22.5°	1368.3	1365.6	1370.1	1366.5	1350.2	1339.4	1336.7	1289.7	1226.5	1139.8	1063.9
25°	1401.7	1401.7	1401.7	1395.4	1380.0	1376.4	1376.4	1335.7	1268.0	1166.9	1080.2
27.5°	1468.5	1464.9	1460.4	1442.3	1416.1	1415.2	1420.6	1382.7	1315.9	1202.1	1100.0
30°	1567.0	1565.1	1548.0	1510.1	1465.8	1461.3	1464.9	1433.3	1367.4	1239.1	1122.6
32.5°	1694.3	1688.0	1652.8	1595.9	1532.6	1511.9	1519.1	1485.7	1421.5	1277.0	1144.3
35°	1784.6	1786.4	1761.1	1709.7	1634.7	1579.6	1585.0	1544.4	1480.3	1319.5	1171.4
37.5°	1888.5	1894.8	1856.9	1818.0	1748.5	1654.6	1660.0	1604.9	1539.0	1372.8	1200.3
40°	2032.1	2019.4	1955.3	1909.2	1832.5	1733.1	1737.6	1672.6	1606.7	1423.4	1233.7
42.5°	2152.2	2129.6	2051.9	1993.2	1901.1	1816.2	1820.7	1745.8	1675.3	1479.3	1270.7
45°	2324.7	2262.4	2150.4	2121.5	1971.6	1897.5	1902.0	1823.4	1747.6	1539.0	1310.5
47.5°	2424.9	2325.6	2254.2	2238.9	2049.2	1981.5	1986.9	1905.6	1825.3	1606.7	1352.0
50°	2418.6	2354.5	2333.7	2295.8	2117.9	2060.1	2065.5	1990.5	1903.8	1673.5	1391.7
52.5°	2377.1	2388.8	2378.0	2314.8	2186.5	2135.9	2142.3	2074.5	1984.2	1735.8	1428.8
55°	2441.2	2449.3	2428.6	2345.5	2262.4	2211.8	2219.0	2163.0	2063.7	1790.9	1460.4
57.5°	2518.0	2489.1	2468.3	2399.7	2340.9	2294.0	2302.1	2253.3	2132.3	1835.2	1484.8
60°	2514.4	2453.8	2474.6	2403.3	2394.2	2369.8	2377.1	2327.4	2184.7	1867.7	1494.7
62.5°	2329.2	2296.7	2401.5	2377.1	2437.6	2437.6	2446.6	2372.6	2216.3	1881.2	1489.3
65°	2007.7	2009.5	2193.7	2294.9	2489.1	2530.6	2537.8	2400.6	2198.3	1841.5	1438.7
67.5°	1599.5	1611.2	1875.8	2086.3	2437.6	2593.8	2594.7	2425.8	2120.6	1729.5	1321.3
70°	1170.5	1179.5	1492.0	1747.6	2194.6	2453.8	2439.4	2354.5	1951.7	1534.4	1138.0
72.5°	791.2	799.3	1120.8	1342.1	1800.9	2089.9	2058.3	2080.8	1663.6	1260.8	914.9
75°	532.0	541.9	797.5	960.0	1324.9	1586.8	1516.4	1576.0	1287.0	954.6	667.4
77.5°	335.1	341.4	506.7	629.5	904.9	1080.2	1009.7	1010.6	741.5	513.9	358.5
80°	213.1	214.9	307.1	363.1	523.8	649.4	574.4	466.9	334.2	272.7	214.0
82.5°	123.7	121.0	183.3	205.0	249.3	246.6	204.1	193.3	146.3	136.4	109.3
85°	49.7	46.1	80.4	75.0	75.9	80.4	59.6	59.6	47.9	37.0	27.1
87.5°	9.9	9.9	10.8	9.9	9.9	10.8	8.1	8.1	7.2	7.2	7.2
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°	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8
2.5°	982.6	980.8	976.3	964.6	958.2	954.6	949.2	947.4	946.5	947.4	950.1
5°	985.3	979.0	966.4	947.4	934.8	926.6	917.6	914.0	911.3	911.3	914.0
7.5°	987.1	977.2	955.5	927.5	909.5	896.8	886.0	881.5	880.6	883.3	884.2
10°	988.0	973.6	942.9	907.7	884.2	867.9	857.1	854.4	857.1	862.5	863.4
12.5°	994.4	974.5	935.7	894.1	866.1	849.9	841.7	841.7	849.0	858.9	859.8
15°	1005.2	980.8	932.0	883.3	854.4	839.9	837.2	841.7	852.6	867.9	869.7
17.5°	1013.3	984.4	923.9	868.8	839.0	830.0	834.5	845.3	860.7	881.5	883.3
20°	1018.7	984.4	912.2	851.7	823.7	821.9	834.5	851.7	867.9	892.3	895.0
22.5°	1024.2	982.6	898.6	830.9	806.5	811.9	835.4	857.1	873.3	899.5	904.0
25°	1034.1	985.3	885.1	810.1	788.4	803.8	834.5	860.7	877.9	904.9	912.2
27.5°	1047.6	991.7	875.1	791.2	770.4	791.2	828.2	859.8	877.9	904.0	912.2
30°	1062.1	998.9	863.4	770.4	749.6	773.1	814.6	849.9	870.6	895.0	904.9
32.5°	1077.5	1007.0	853.5	747.8	724.3	748.7	794.8	834.5	857.1	879.7	890.5
35°	1098.2	1021.5	848.1	729.7	701.7	723.4	769.5	814.6	839.0	859.8	872.4
37.5°	1123.5	1039.5	845.3	711.7	677.4	695.4	742.4	790.3	816.4	833.6	845.3
40°	1152.4	1062.1	844.4	694.5	653.0	666.5	714.4	762.3	787.5	801.1	811.0
42.5°	1184.9	1087.4	842.6	677.4	628.6	639.4	687.3	734.3	755.9	767.7	776.7
45°	1219.2	1112.7	839.0	656.6	602.4	615.0	659.3	700.8	723.4	733.4	743.3
47.5°	1253.6	1138.0	831.8	633.1	578.9	590.7	629.5	665.6	683.7	692.7	702.6
50°	1287.0	1160.5	814.6	606.0	554.5	565.4	595.2	619.6	633.1	640.3	650.3
52.5°	1316.8	1175.9	790.3	574.4	530.1	535.6	555.4	576.2	587.0	587.9	597.0
55°	1342.1	1184.0	755.0	541.9	504.0	504.9	515.7	532.0	536.5	532.9	539.2
57.5°	1356.5	1179.5	716.2	508.5	476.9	473.2	481.4	489.5	490.4	481.4	487.7
60°	1360.1	1158.7	665.6	475.1	449.8	439.8	442.5	440.7	438.9	435.3	440.7
62.5°	1342.1	1114.5	609.6	442.5	420.9	405.5	404.6	403.7	406.4	407.3	408.2
65°	1276.1	1031.4	542.8	409.1	390.2	369.4	368.5	379.3	382.9	377.5	379.3
67.5°	1148.8	904.0	469.6	370.3	351.3	333.3	340.5	346.8	353.1	351.3	353.1
70°	968.2	742.4	402.8	326.9	308.9	298.9	307.1	312.5	313.4	311.6	313.4
72.5°	761.4	579.8	340.5	282.7	266.4	261.9	271.8	276.4	284.5	288.1	289.0
75°	550.0	428.1	279.1	234.8	221.3	221.3	230.3	238.4	245.7	241.1	238.4
77.5°	307.1	255.6	200.5	161.7	164.4	177.0	180.6	189.7	196.9	196.0	194.2
80°	186.0	159.9	135.5	104.8	103.9	113.8	137.3	152.6	156.2	148.1	147.2
82.5°	96.6	84.0	72.3	58.7	65.0	75.9	79.5	95.7	105.7	102.1	106.6
85°	24.4	23.5	26.2	27.1	33.4	37.0	40.6	47.9	31.6	15.4	15.4
87.5°	7.2	7.2	9.0	9.0	11.7	14.5	13.5	13.5	7.2	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)