

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: P798969

Luminaire Tested: **ARCH1-50-722-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798969
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: ARCH1-50-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5476 lumens
Efficiency: N/A
Efficacy: 103.3 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

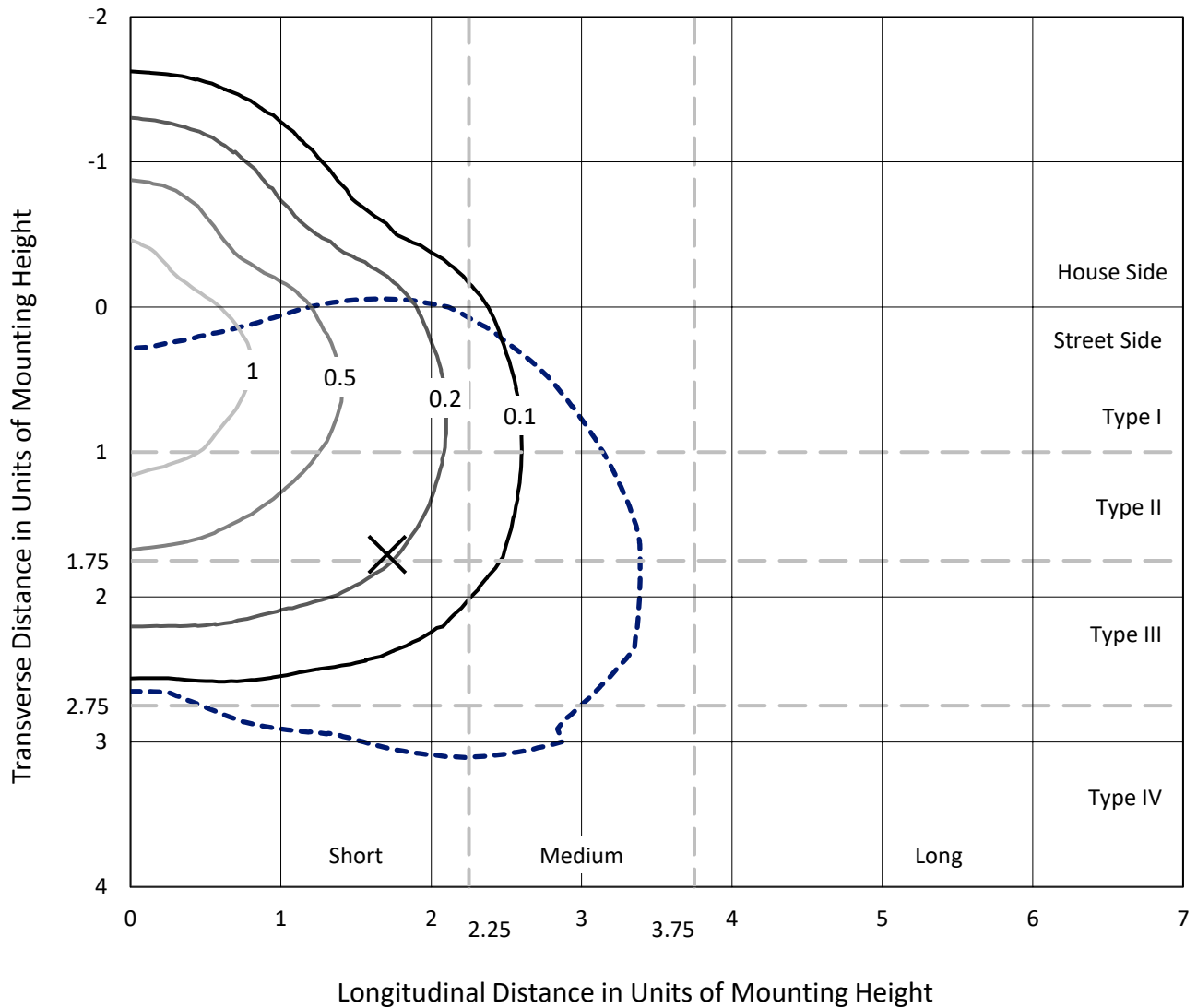
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

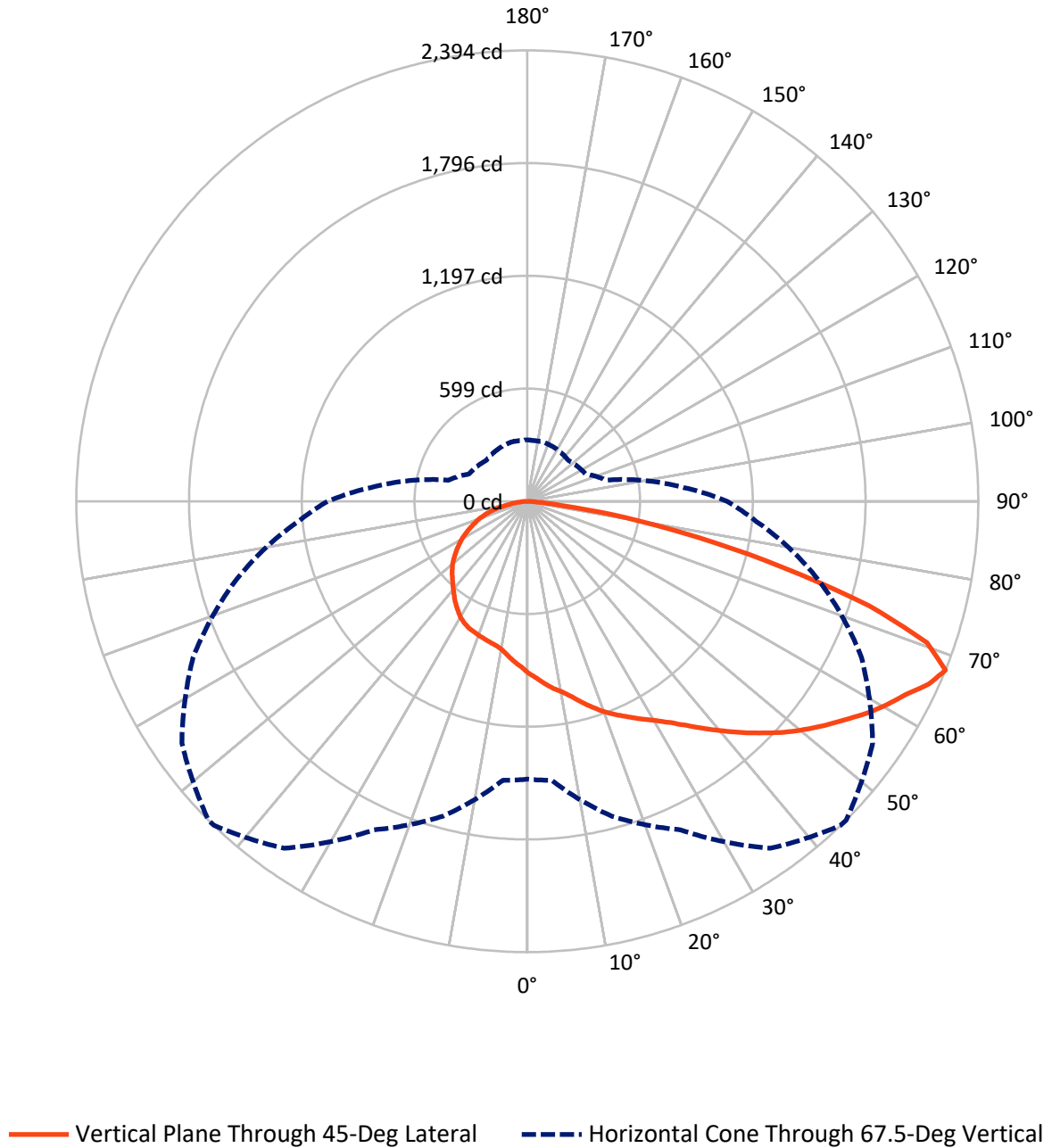
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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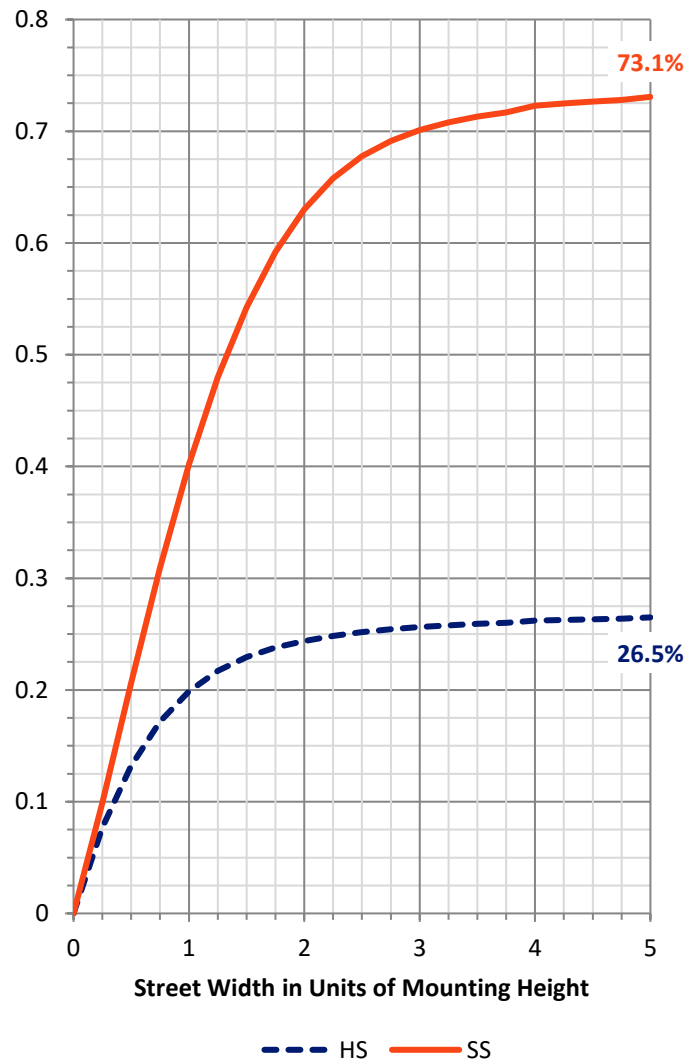
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1462.9	0.0	1462.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	4013.1	0.0	4013.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	5476.0	0.0	5476.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	1.6
10°-20°	270.1	4.9
20°-30°	466.3	8.5
30°-40°	687.6	12.6
40°-50°	931.5	17.0
50°-60°	1138.5	20.8
60°-70°	1174.3	21.4
70°-80°	643.2	11.7
80°-90°	77.1	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°	5476.0	100.0
0°-180°	5476.0	100.0



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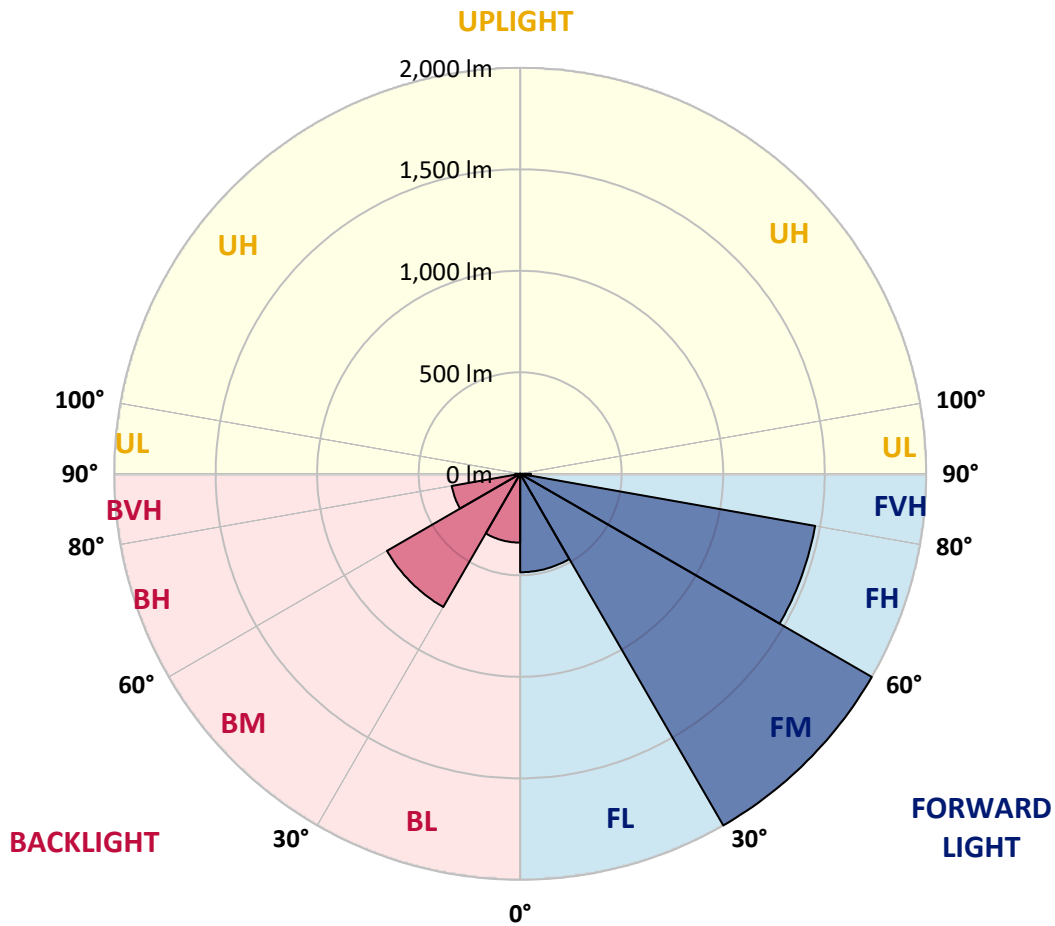
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.8	8.9			
FM (30°-60°)	1999.9	36.5			
FH (60°-80°)	1475.3	26.9			G1/1800
FVH (80°-90°)	53.1	1.0			G1/100
BL (0°-30°)	339.1	6.2	B1/500		
BM (30°-60°)	757.8	13.8	B1/1000		
BH (60°-80°)	342.1	6.2	B1/500		G1/500
BVH (80°-90°)	24.0	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°	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3
2.5°	953.3	952.5	954.1	948.3	940.8	940.0	940.0	935.0	929.1	917.5	908.3
5°	998.3	996.6	997.5	989.1	979.1	974.1	973.3	962.5	949.1	930.8	914.1
7.5°	1040.0	1038.3	1037.5	1028.3	1013.3	1005.0	1004.1	988.3	972.5	944.1	920.0
10°	1079.1	1077.5	1075.8	1063.3	1045.0	1032.5	1030.8	1010.8	990.8	955.8	925.0
12.5°	1129.1	1125.8	1124.1	1109.1	1082.5	1069.1	1066.6	1040.0	1015.0	972.5	935.0
15°	1181.6	1179.1	1176.6	1162.4	1132.4	1115.0	1110.8	1077.5	1043.3	994.1	950.0
17.5°	1220.8	1218.3	1218.3	1205.8	1178.3	1158.3	1154.9	1115.0	1072.5	1014.1	961.6
20°	1244.9	1242.4	1244.9	1237.4	1216.6	1199.9	1196.6	1152.4	1101.6	1032.5	971.6
22.5°	1262.4	1259.9	1264.1	1260.8	1245.8	1235.8	1233.3	1189.9	1131.6	1051.6	981.6
25°	1293.3	1293.3	1293.3	1287.4	1273.3	1269.9	1269.9	1232.4	1169.9	1076.6	996.6
27.5°	1354.9	1351.6	1347.4	1330.8	1306.6	1305.8	1310.8	1275.8	1214.1	1109.1	1015.0
30°	1445.8	1444.1	1428.3	1393.3	1352.4	1348.3	1351.6	1322.4	1261.6	1143.3	1035.8
32.5°	1563.3	1557.4	1524.9	1472.4	1414.1	1394.9	1401.6	1370.8	1311.6	1178.3	1055.8
35°	1646.6	1648.3	1624.9	1577.4	1508.3	1457.4	1462.4	1424.9	1365.8	1217.4	1080.8
37.5°	1742.4	1748.3	1713.3	1677.4	1613.3	1526.6	1531.6	1480.8	1419.9	1266.6	1107.5
40°	1874.9	1863.3	1804.1	1761.6	1690.8	1599.1	1603.3	1543.3	1482.4	1313.3	1138.3
42.5°	1985.7	1964.9	1893.2	1839.1	1754.1	1675.8	1679.9	1610.8	1545.8	1364.9	1172.4
45°	2144.9	2087.4	1984.1	1957.4	1819.1	1750.8	1754.9	1682.4	1612.4	1419.9	1209.1
47.5°	2237.4	2145.7	2079.9	2065.7	1890.7	1828.3	1833.3	1758.3	1684.1	1482.4	1247.4
50°	2231.6	2172.4	2153.2	2118.2	1954.1	1900.7	1905.7	1836.6	1756.6	1544.1	1284.1
52.5°	2193.2	2204.1	2194.1	2135.7	2017.4	1970.7	1976.6	1914.1	1830.8	1601.6	1318.3
55°	2252.4	2259.9	2240.7	2164.1	2087.4	2040.7	2047.4	1995.7	1904.1	1652.4	1347.4
57.5°	2323.2	2296.6	2277.4	2214.1	2159.9	2116.6	2124.1	2079.1	1967.4	1693.3	1369.9
60°	2319.9	2264.1	2283.2	2217.4	2209.1	2186.6	2193.2	2147.4	2015.7	1723.3	1379.1
62.5°	2149.1	2119.1	2215.7	2193.2	2249.1	2249.1	2257.4	2189.1	2044.9	1735.8	1374.1
65°	1852.4	1854.1	2024.1	2117.4	2296.6	2334.9	2341.6	2214.9	2028.2	1699.1	1327.4
67.5°	1475.8	1486.6	1730.8	1924.9	2249.1	2393.2	2394.1	2238.2	1956.6	1595.8	1219.1
70°	1080.0	1088.3	1376.6	1612.4	2024.9	2264.1	2250.7	2172.4	1800.8	1415.8	1050.0
72.5°	730.0	737.5	1034.1	1238.3	1661.6	1928.2	1899.1	1919.9	1534.9	1163.3	844.1
75°	490.8	500.0	735.8	885.8	1222.4	1464.1	1399.1	1454.1	1187.4	880.8	615.8
77.5°	309.2	315.0	467.5	580.8	835.0	996.6	931.6	932.5	684.1	474.1	330.8
80°	196.7	198.3	283.3	335.0	483.3	599.1	530.0	430.8	308.3	251.7	197.5
82.5°	114.2	111.7	169.2	189.2	230.0	227.5	188.3	178.3	135.0	125.8	100.8
85°	45.8	42.5	74.2	69.2	70.0	74.2	55.0	55.0	44.2	34.2	25.0
87.5°	9.2	9.2	10.0	9.2	9.2	10.0	7.5	7.5	6.7	6.7	6.7
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°	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3
2.5°	906.6	905.0	900.8	890.0	884.1	880.8	875.8	874.1	873.3	874.1	876.6
5°	909.1	903.3	891.6	874.1	862.5	855.0	846.6	843.3	840.8	840.8	843.3
7.5°	910.8	901.6	881.6	855.8	839.1	827.5	817.5	813.3	812.5	815.0	815.8
10°	911.6	898.3	870.0	837.5	815.8	800.8	790.8	788.3	790.8	795.8	796.6
12.5°	917.5	899.1	863.3	825.0	799.1	784.1	776.6	776.6	783.3	792.5	793.3
15°	927.5	905.0	860.0	815.0	788.3	775.0	772.5	776.6	786.6	800.8	802.5
17.5°	935.0	908.3	852.5	801.6	774.1	765.8	770.0	780.0	794.1	813.3	815.0
20°	940.0	908.3	841.6	785.8	760.0	758.3	770.0	785.8	800.8	823.3	825.8
22.5°	945.0	906.6	829.1	766.6	744.1	749.1	770.8	790.8	805.8	830.0	834.1
25°	954.1	909.1	816.6	747.5	727.5	741.6	770.0	794.1	810.0	835.0	841.6
27.5°	966.6	915.0	807.5	730.0	710.8	730.0	764.1	793.3	810.0	834.1	841.6
30°	980.0	921.6	796.6	710.8	691.6	713.3	751.6	784.1	803.3	825.8	835.0
32.5°	994.1	929.1	787.5	690.0	668.3	690.8	733.3	770.0	790.8	811.6	821.6
35°	1013.3	942.5	782.5	673.3	647.5	667.5	710.0	751.6	774.1	793.3	805.0
37.5°	1036.6	959.1	780.0	656.6	625.0	641.6	685.0	729.1	753.3	769.1	780.0
40°	1063.3	980.0	779.1	640.8	602.5	615.0	659.1	703.3	726.6	739.1	748.3
42.5°	1093.3	1003.3	777.5	625.0	580.0	590.0	634.1	677.5	697.5	708.3	716.6
45°	1125.0	1026.6	774.1	605.8	555.8	567.5	608.3	646.6	667.5	676.6	685.8
47.5°	1156.6	1050.0	767.5	584.1	534.1	545.0	580.8	614.1	630.8	639.1	648.3
50°	1187.4	1070.8	751.6	559.1	511.6	521.6	549.1	571.6	584.1	590.8	600.0
52.5°	1214.9	1085.0	729.1	530.0	489.1	494.1	512.5	531.6	541.6	542.5	550.8
55°	1238.3	1092.5	696.6	500.0	465.0	465.8	475.8	490.8	495.0	491.6	497.5
57.5°	1251.6	1088.3	660.8	469.1	440.0	436.6	444.1	451.6	452.5	444.1	450.0
60°	1254.9	1069.1	614.1	438.3	415.0	405.8	408.3	406.6	405.0	401.6	406.6
62.5°	1238.3	1028.3	562.5	408.3	388.3	374.2	373.3	372.5	375.0	375.8	376.7
65°	1177.4	951.6	500.8	377.5	360.0	340.8	340.0	350.0	353.3	348.3	350.0
67.5°	1060.0	834.1	433.3	341.7	324.2	307.5	314.2	320.0	325.8	324.2	325.8
70°	893.3	685.0	371.7	301.7	285.0	275.8	283.3	288.3	289.2	287.5	289.2
72.5°	702.5	535.0	314.2	260.8	245.8	241.7	250.8	255.0	262.5	265.8	266.7
75°	507.5	395.0	257.5	216.7	204.2	204.2	212.5	220.0	226.7	222.5	220.0
77.5°	283.3	235.8	185.0	149.2	151.7	163.3	166.7	175.0	181.7	180.8	179.2
80°	171.7	147.5	125.0	96.7	95.8	105.0	126.7	140.8	144.2	136.7	135.8
82.5°	89.2	77.5	66.7	54.2	60.0	70.0	73.3	88.3	97.5	94.2	98.3
85°	22.5	21.7	24.2	25.0	30.8	34.2	37.5	44.2	29.2	14.2	14.2
87.5°	6.7	6.7	8.3	8.3	10.8	13.3	12.5	12.5	6.7	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)