

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: P798873

Luminaire Tested: **ARCH1-40-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798873
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: ARCH1-40-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5379 lumens
Efficiency: N/A
Efficacy: 125.1 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): 43
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



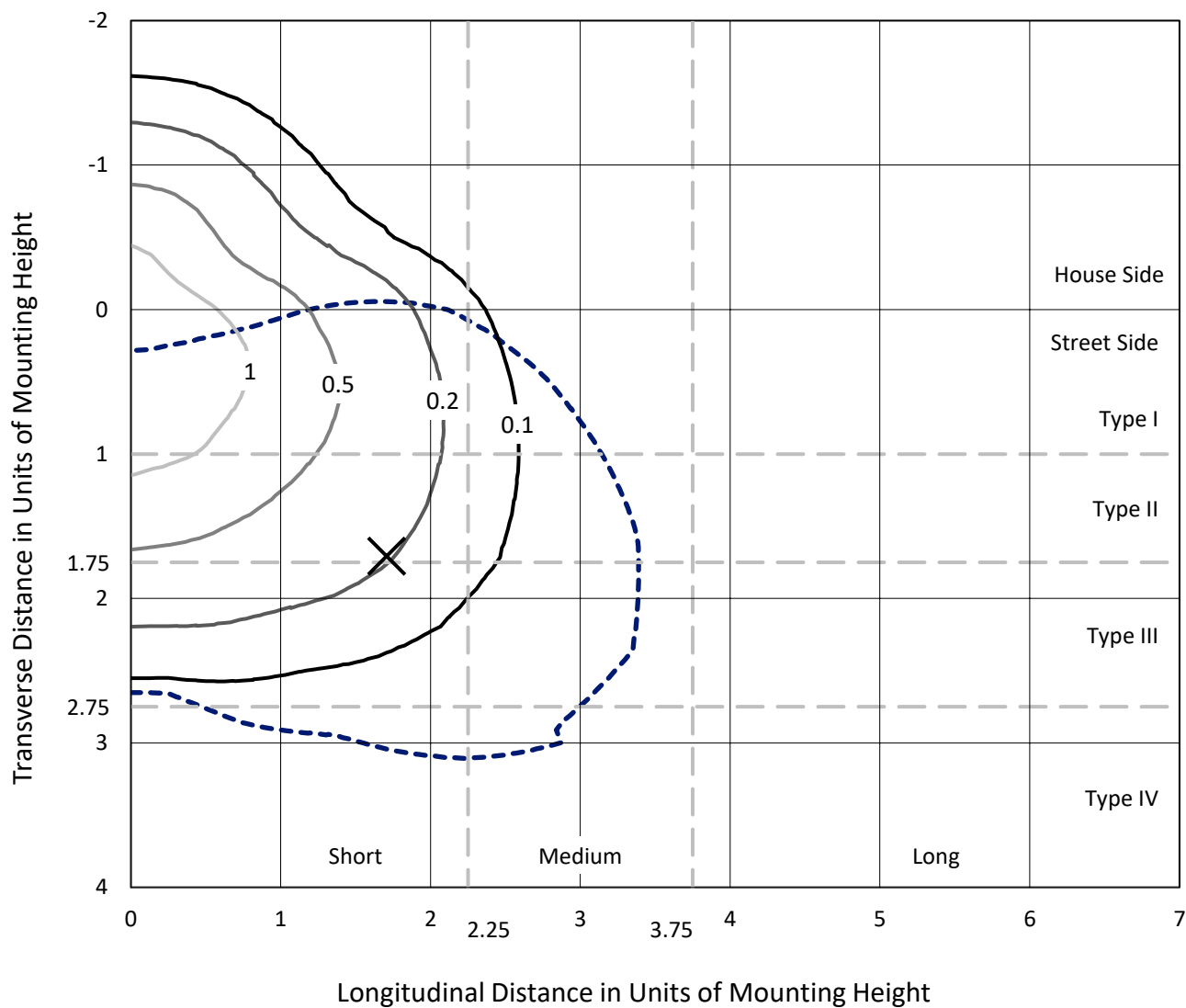
REPORT NUMBER: P798873

CATALOG NUMBER: ARCH1-40-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

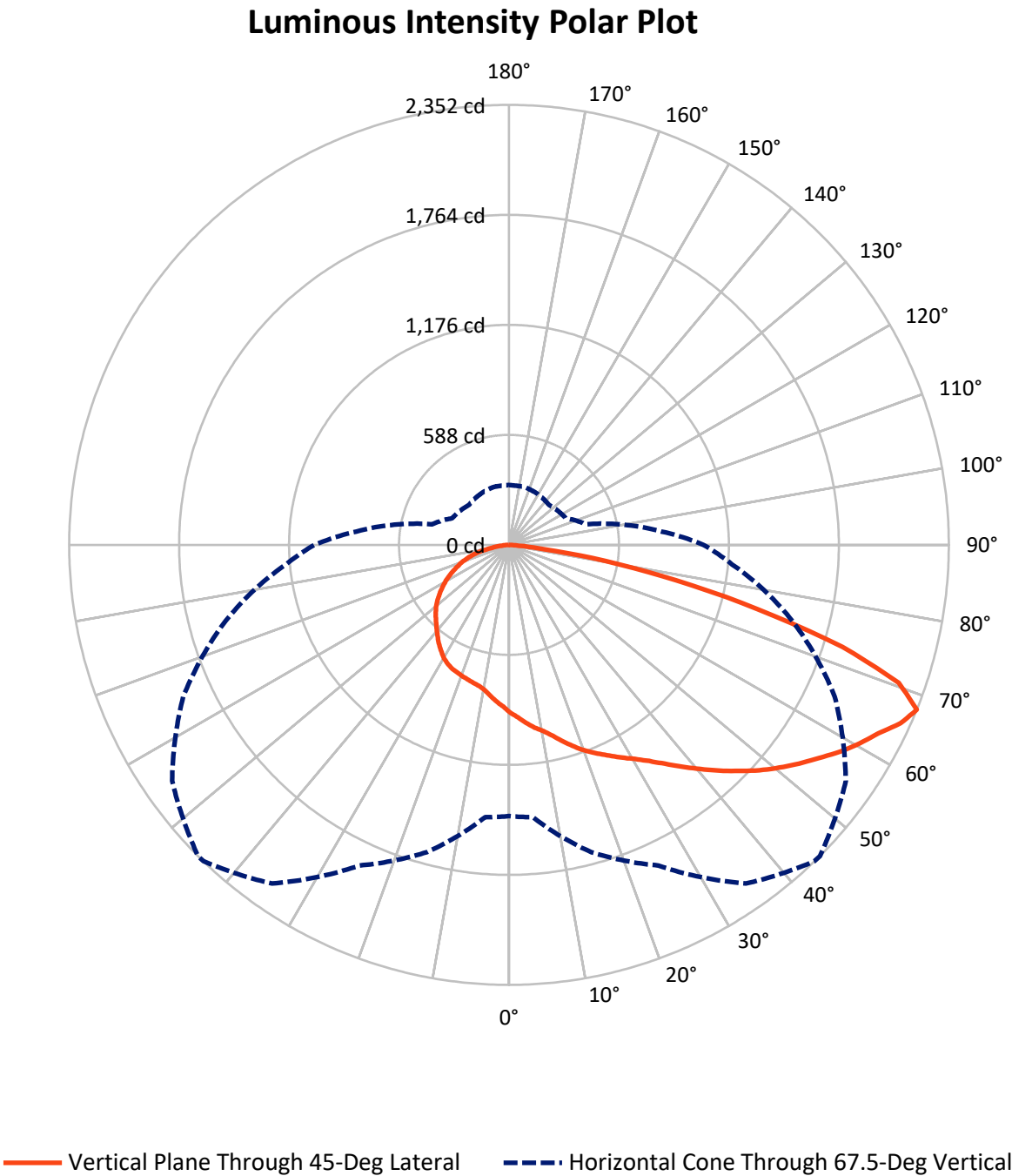
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc

Type IV - Short - N/A

REPORT NUMBER: P798873
CATALOG NUMBER: ARCH1-40-730-U-T4W



REPORT NUMBER: P798873

CATALOG NUMBER: ARCH1-40-730-U-T4W

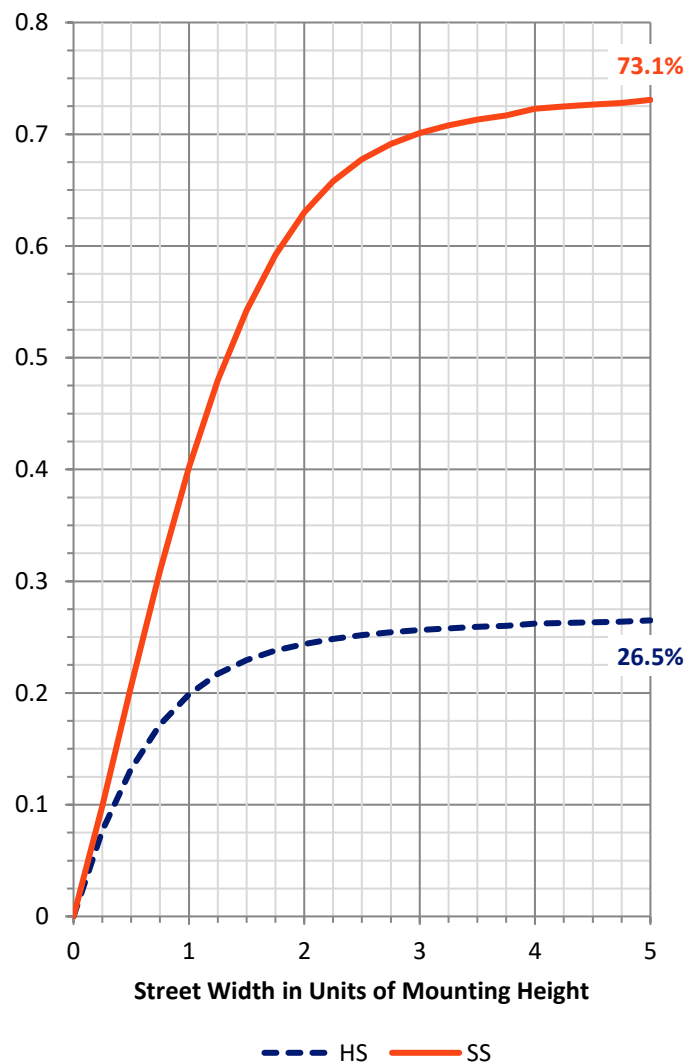
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1437.0	0.0	1437.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	3942.0	0.0	3942.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	5379.0	0.0	5379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	1.6
10°-20°	265.3	4.9
20°-30°	458.0	8.5
30°-40°	675.4	12.6
40°-50°	915.0	17.0
50°-60°	1118.4	20.8
60°-70°	1153.4	21.4
70°-80°	631.8	11.7
80°-90°	75.7	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°	5379.0	100.0
0°-180°	5379.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798873

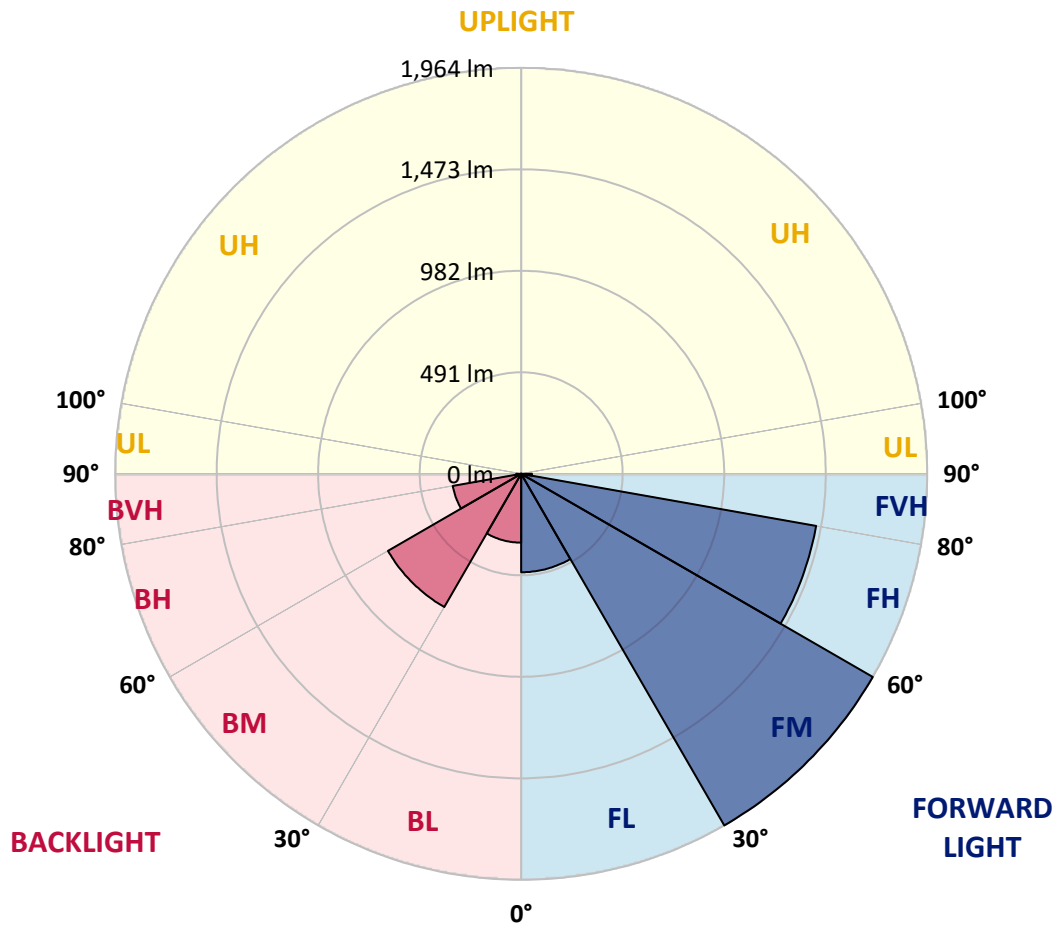
CATALOG NUMBER: ARCH1-40-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.2	8.9			
FM	(30°-60°)	1964.5	36.5			
FH	(60°-80°)	1449.2	26.9			G1/1800
FVH	(80°-90°)	52.2	1.0			G1/100
BL	(0°-30°)	333.0	6.2	B1/500		
BM	(30°-60°)	744.3	13.8	B1/1000		
BH	(60°-80°)	336.0	6.2	B1/500		G1/500
BVH	(80°-90°)	23.6	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



REPORT NUMBER: P798873

CATALOG NUMBER: ARCH1-40-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1
2.5°	936.4	935.6	937.2	931.5	924.1	923.3	923.3	918.4	912.7	901.2	892.2
5°	980.6	979.0	979.8	971.6	961.8	956.9	956.0	945.4	932.3	914.3	897.9
7.5°	1021.5	1019.9	1019.1	1010.1	995.3	987.2	986.3	970.8	955.2	927.4	903.7
10°	1060.0	1058.4	1056.7	1044.5	1026.4	1014.2	1012.5	992.9	973.2	938.9	908.6
12.5°	1109.1	1105.8	1104.2	1089.5	1063.3	1050.2	1047.7	1021.5	997.0	955.2	918.4
15°	1160.7	1158.2	1155.8	1141.9	1112.4	1095.2	1091.1	1058.4	1024.8	976.5	933.1
17.5°	1199.2	1196.7	1196.7	1184.4	1157.4	1137.8	1134.5	1095.2	1053.5	996.2	944.6
20°	1222.9	1220.4	1222.9	1215.5	1195.1	1178.7	1175.4	1132.0	1082.1	1014.2	954.4
22.5°	1240.1	1237.6	1241.7	1238.4	1223.7	1213.9	1211.4	1168.9	1111.6	1033.0	964.2
25°	1270.4	1270.4	1270.4	1264.6	1250.7	1247.4	1247.4	1210.6	1149.2	1057.5	979.0
27.5°	1330.9	1327.7	1323.6	1307.2	1283.5	1282.6	1287.6	1253.2	1192.6	1089.5	997.0
30°	1420.2	1418.5	1403.0	1368.6	1328.5	1324.4	1327.7	1299.0	1239.3	1123.0	1017.4
32.5°	1535.6	1529.8	1497.9	1446.4	1389.1	1370.2	1376.8	1346.5	1288.4	1157.4	1037.1
35°	1617.4	1619.1	1596.1	1549.5	1481.5	1431.6	1436.5	1399.7	1341.6	1195.9	1061.6
37.5°	1711.6	1717.3	1682.9	1647.7	1584.7	1499.6	1504.5	1454.5	1394.8	1244.2	1087.8
40°	1841.7	1830.2	1772.1	1730.4	1660.8	1570.8	1574.9	1515.9	1456.2	1290.0	1118.1
42.5°	1950.6	1930.1	1859.7	1806.5	1723.0	1646.1	1650.2	1582.2	1518.4	1340.8	1151.7
45°	2106.9	2050.4	1948.9	1922.7	1786.9	1719.7	1723.8	1652.6	1583.9	1394.8	1187.7
47.5°	2197.8	2107.7	2043.1	2029.2	1857.3	1795.9	1800.8	1727.1	1654.3	1456.2	1225.3
50°	2192.0	2133.9	2115.1	2080.7	1919.5	1867.1	1872.0	1804.1	1725.5	1516.7	1261.4
52.5°	2154.4	2165.0	2155.2	2097.9	1981.7	1935.8	1941.6	1880.2	1798.3	1573.2	1294.9
55°	2212.5	2219.9	2201.0	2125.7	2050.4	2004.6	2011.1	1960.4	1870.4	1623.2	1323.6
57.5°	2282.1	2255.9	2237.1	2174.8	2121.6	2079.1	2086.4	2042.2	1932.6	1663.3	1345.7
60°	2278.8	2224.0	2242.8	2178.1	2169.9	2147.8	2154.4	2109.4	1980.0	1692.7	1354.7
62.5°	2111.0	2081.5	2176.5	2154.4	2209.2	2209.2	2217.4	2150.3	2008.7	1705.0	1349.8
65°	1819.6	1821.2	1988.2	2079.9	2255.9	2293.5	2300.1	2175.7	1992.3	1669.0	1303.9
67.5°	1449.6	1460.3	1700.1	1890.8	2209.2	2350.8	2351.7	2198.6	1921.9	1567.5	1197.5
70°	1060.8	1069.0	1352.2	1583.9	1989.0	2224.0	2210.9	2133.9	1768.9	1390.7	1031.4
72.5°	717.0	724.4	1015.8	1216.3	1632.2	1894.1	1865.4	1885.9	1507.7	1142.7	829.2
75°	482.1	491.1	722.8	870.1	1200.8	1438.2	1374.3	1428.3	1166.4	865.2	604.9
77.5°	303.7	309.4	459.2	570.5	820.2	979.0	915.1	915.9	672.0	465.7	325.0
80°	193.2	194.8	278.3	329.1	474.8	588.5	520.6	423.2	302.9	247.2	194.0
82.5°	112.1	109.7	166.2	185.8	225.9	223.5	185.0	175.2	132.6	123.6	99.0
85°	45.0	41.7	72.8	67.9	68.8	72.8	54.0	54.0	43.4	33.6	24.6
87.5°	9.0	9.0	9.8	9.0	9.0	9.8	7.4	7.4	6.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P798873

CATALOG NUMBER: ARCH1-40-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1	897.1
2.5°	890.6	888.9	884.8	874.2	868.5	865.2	860.3	858.6	857.8	858.6	861.1
5°	893.0	887.3	875.8	858.6	847.2	839.8	831.6	828.4	825.9	825.9	828.4
7.5°	894.7	885.7	866.0	840.6	824.3	812.8	803.0	798.9	798.1	800.5	801.3
10°	895.5	882.4	854.6	822.6	801.3	786.6	776.8	774.3	776.8	781.7	782.5
12.5°	901.2	883.2	848.0	810.4	785.0	770.2	762.9	762.9	769.4	778.4	779.2
15°	911.0	888.9	844.7	800.5	774.3	761.2	758.8	762.9	772.7	786.6	788.2
17.5°	918.4	892.2	837.4	787.4	760.4	752.2	756.3	766.1	780.1	798.9	800.5
20°	923.3	892.2	826.7	771.9	746.5	744.9	756.3	771.9	786.6	808.7	811.2
22.5°	928.2	890.6	814.4	753.1	731.0	735.9	757.1	776.8	791.5	815.3	819.4
25°	937.2	893.0	802.2	734.2	714.6	728.5	756.3	780.1	795.6	820.2	826.7
27.5°	949.5	898.8	793.2	717.0	698.2	717.0	750.6	779.2	795.6	819.4	826.7
30°	962.6	905.3	782.5	698.2	679.4	700.7	738.3	770.2	789.1	811.2	820.2
32.5°	976.5	912.7	773.5	677.7	656.5	678.6	720.3	756.3	776.8	797.3	807.1
35°	995.3	925.8	768.6	661.4	636.0	655.6	697.4	738.3	760.4	779.2	790.7
37.5°	1018.3	942.1	766.1	645.0	613.9	630.3	672.8	716.2	740.0	755.5	766.1
40°	1044.5	962.6	765.3	629.5	591.8	604.1	647.5	690.8	713.8	726.0	735.0
42.5°	1073.9	985.5	763.7	613.9	569.7	579.5	622.9	665.5	685.1	695.8	703.9
45°	1105.0	1008.4	760.4	595.1	546.0	557.4	597.5	635.2	655.6	664.7	673.7
47.5°	1136.1	1031.4	753.9	573.8	524.7	535.3	570.5	603.3	619.6	627.8	636.8
50°	1166.4	1051.8	738.3	549.2	502.6	512.4	539.4	561.5	573.8	580.3	589.3
52.5°	1193.4	1065.7	716.2	520.6	480.5	485.4	503.4	522.2	532.0	532.9	541.1
55°	1216.3	1073.1	684.3	491.1	456.7	457.6	467.4	482.1	486.2	482.9	488.7
57.5°	1229.4	1069.0	649.1	460.8	432.2	428.9	436.3	443.6	444.5	436.3	442.0
60°	1232.7	1050.2	603.3	430.5	407.6	398.6	401.1	399.4	397.8	394.5	399.4
62.5°	1216.3	1010.1	552.5	401.1	381.4	367.5	366.7	365.9	368.3	369.2	370.0
65°	1156.6	934.8	491.9	370.8	353.6	334.8	334.0	343.8	347.1	342.1	343.8
67.5°	1041.2	819.4	425.6	335.6	318.4	302.0	308.6	314.3	320.0	318.4	320.0
70°	877.5	672.8	365.1	296.3	279.9	270.9	278.3	283.2	284.0	282.4	284.0
72.5°	690.0	525.5	308.6	256.2	241.5	237.4	246.4	250.5	257.8	261.1	261.9
75°	498.5	388.0	252.9	212.8	200.5	200.5	208.7	216.1	222.6	218.5	216.1
77.5°	278.3	231.6	181.7	146.5	149.0	160.4	163.7	171.9	178.4	177.6	176.0
80°	168.6	144.9	122.8	95.0	94.1	103.1	124.4	138.3	141.6	134.2	133.4
82.5°	87.6	76.1	65.5	53.2	58.9	68.8	72.0	86.8	95.8	92.5	96.6
85°	22.1	21.3	23.7	24.6	30.3	33.6	36.8	43.4	28.6	13.9	13.9
87.5°	6.5	6.5	8.2	8.2	10.6	13.1	12.3	12.3	6.5	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)