

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: P799641

Luminaire Tested: **ARCH2-40-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799641
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: ARCH2-40-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6200 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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

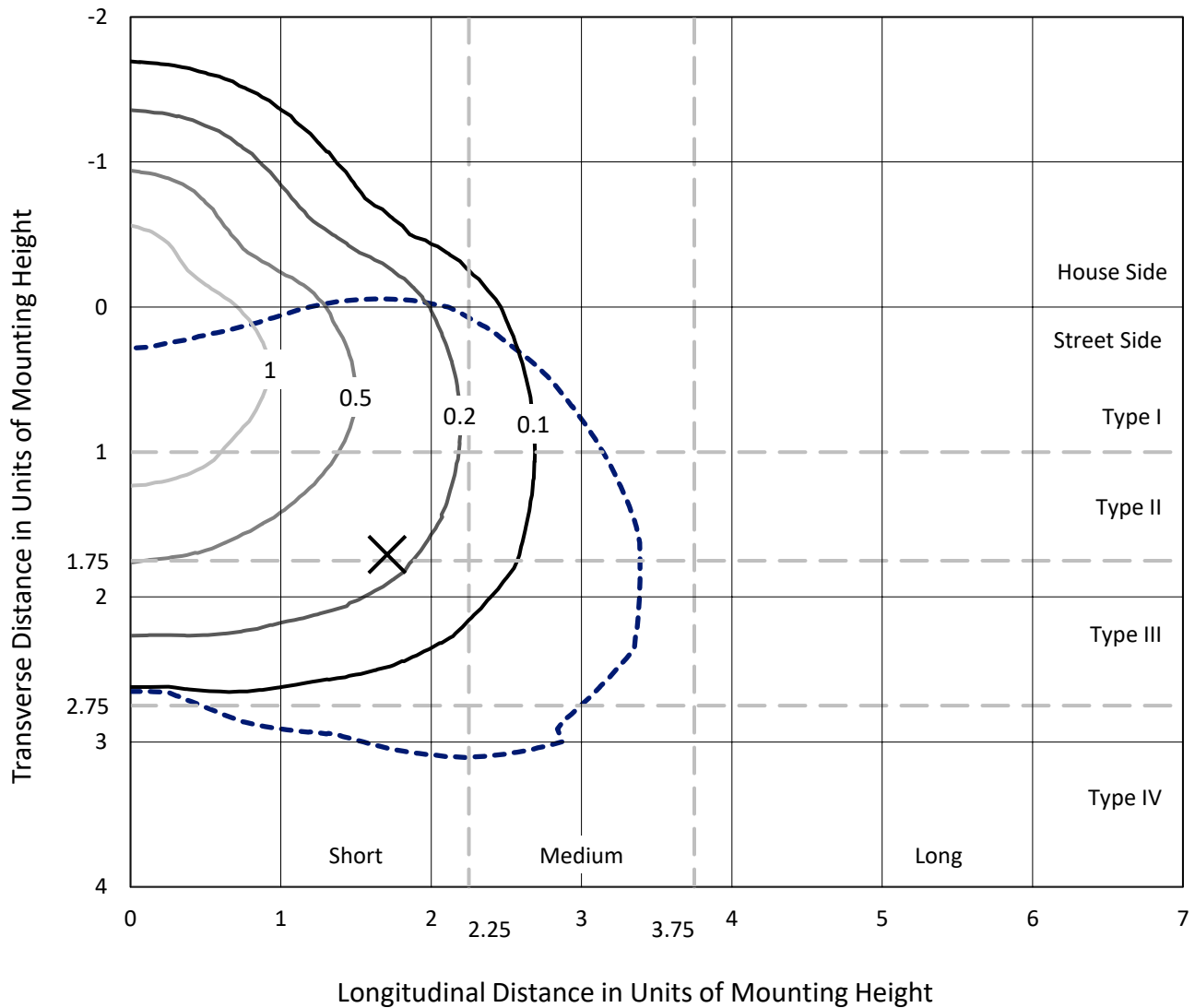


REPORT NUMBER: P799641

CATALOG NUMBER: ARCH2-40-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

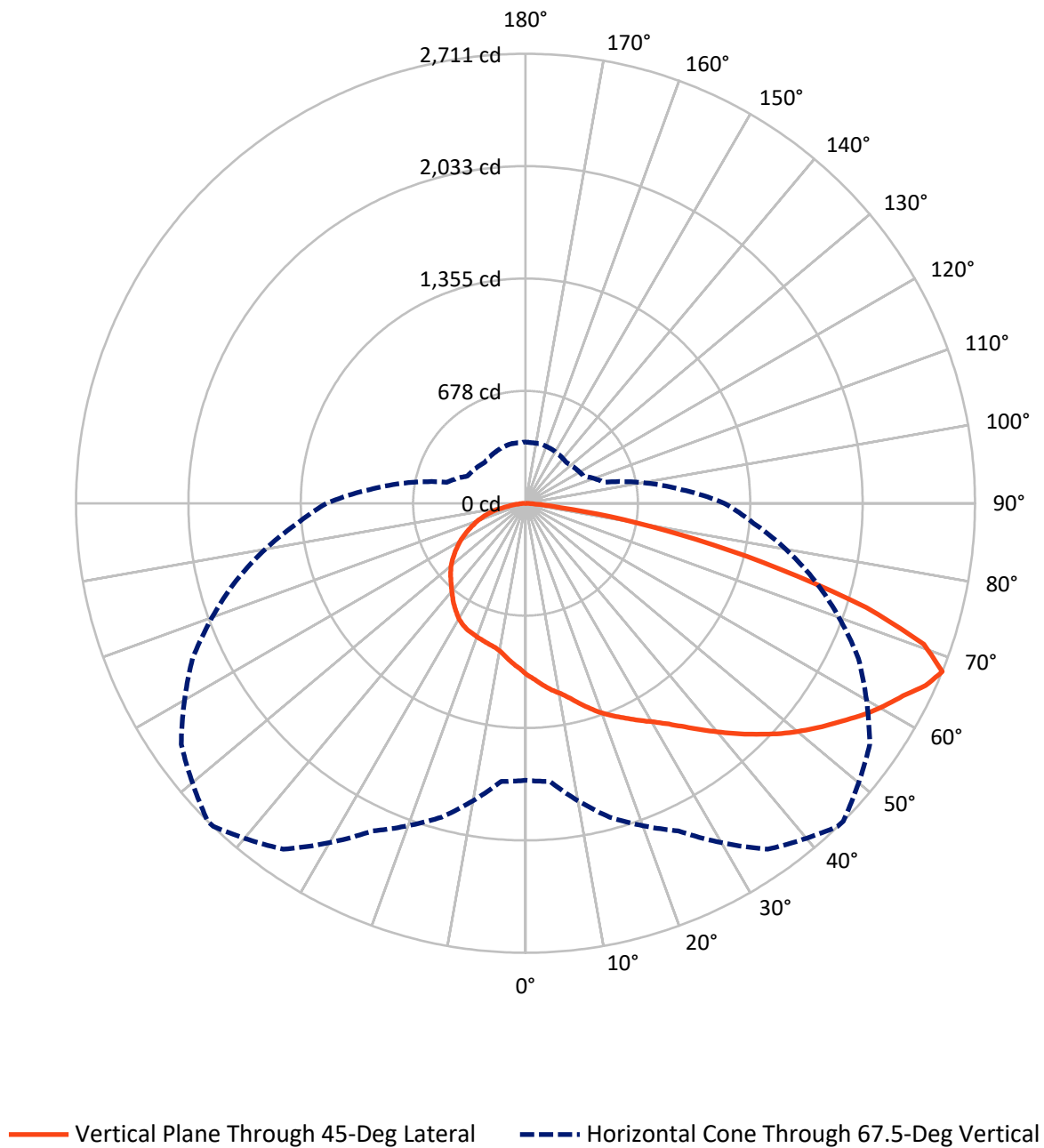


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

REPORT NUMBER: P799641

CATALOG NUMBER: ARCH2-40-730-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P799641

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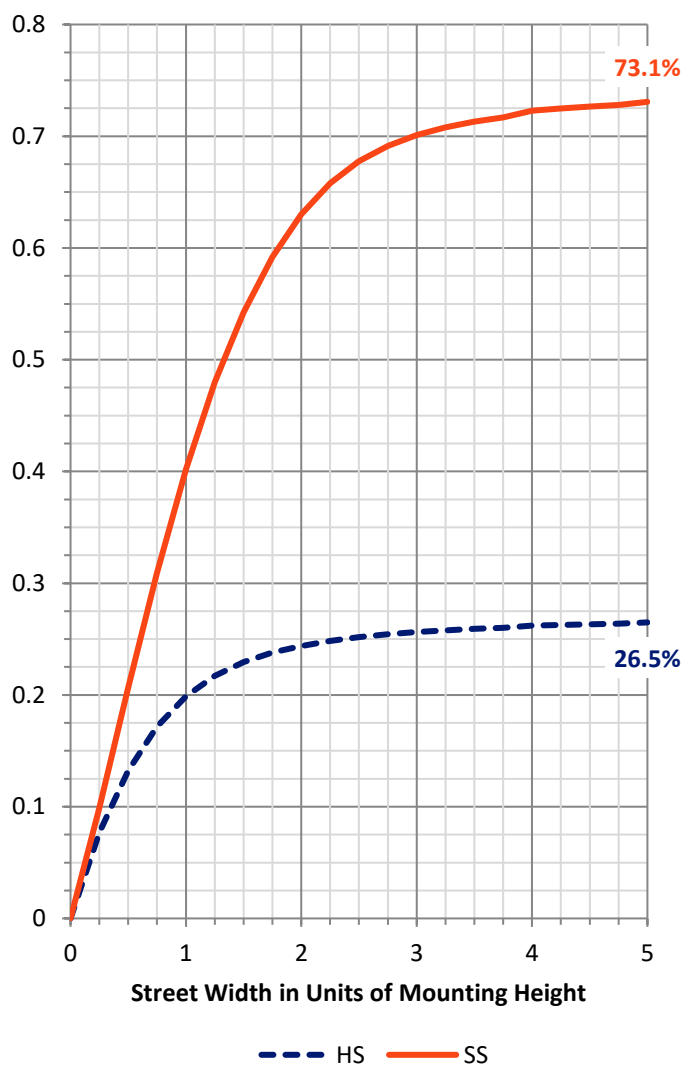
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.3	0.0	1656.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	4543.7	0.0	4543.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	6200.0	0.0	6200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.6
10°-20°	305.8	4.9
20°-30°	527.9	8.5
30°-40°	778.5	12.6
40°-50°	1054.7	17.0
50°-60°	1289.1	20.8
60°-70°	1329.5	21.4
70°-80°	728.2	11.7
80°-90°	87.3	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°	6200.0	100.0
0°-180°	6200.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799641

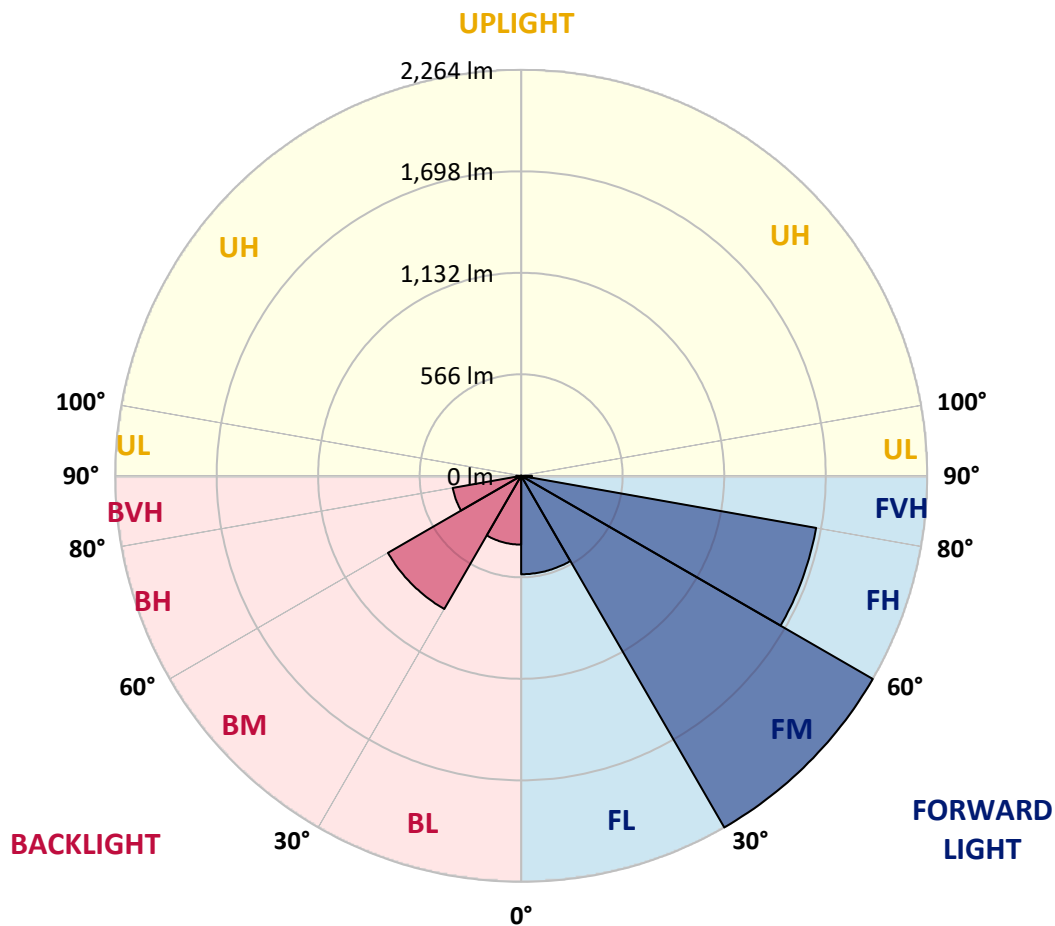
CATALOG NUMBER: ARCH2-40-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.9	8.9			
FM	(30°-60°)	2264.3	36.5			
FH	(60°-80°)	1670.4	26.9			G1/1800
FVH	(80°-90°)	60.1	1.0			G1/100
BL	(0°-30°)	383.9	6.2	B1/500		
BM	(30°-60°)	858.0	13.8	B1/1000		
BH	(60°-80°)	387.3	6.2	B1/500		G1/500
BVH	(80°-90°)	27.2	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: P799641

CATALOG NUMBER: ARCH2-40-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0
2.5°	1079.3	1078.4	1080.3	1073.7	1065.2	1064.2	1064.2	1058.6	1052.0	1038.8	1028.4
5°	1130.3	1128.4	1129.3	1119.9	1108.6	1102.9	1102.0	1089.7	1074.6	1053.9	1035.0
7.5°	1177.4	1175.6	1174.6	1164.2	1147.3	1137.8	1136.9	1119.0	1101.0	1069.0	1041.6
10°	1221.8	1219.9	1218.0	1203.9	1183.1	1169.0	1167.1	1144.4	1121.8	1082.2	1047.3
12.5°	1278.4	1274.6	1272.7	1255.8	1225.6	1210.5	1207.6	1177.4	1149.1	1101.0	1058.6
15°	1337.8	1335.0	1332.2	1316.1	1282.2	1262.4	1257.6	1219.9	1181.2	1125.6	1075.6
17.5°	1382.2	1379.4	1379.4	1365.2	1334.1	1311.4	1307.6	1262.4	1214.2	1148.2	1088.8
20°	1409.5	1406.7	1409.5	1401.1	1377.5	1358.6	1354.8	1304.8	1247.3	1169.0	1100.1
22.5°	1429.4	1426.5	1431.2	1427.5	1410.5	1399.2	1396.3	1347.3	1281.2	1190.7	1111.4
25°	1464.3	1464.3	1464.3	1457.7	1441.6	1437.8	1437.8	1395.4	1324.6	1219.0	1128.4
27.5°	1534.1	1530.3	1525.6	1506.7	1479.4	1478.4	1484.1	1444.5	1374.6	1255.8	1149.1
30°	1636.9	1635.0	1617.1	1577.5	1531.3	1526.5	1530.3	1497.3	1428.4	1294.4	1172.7
32.5°	1769.9	1763.3	1726.5	1667.1	1601.1	1579.4	1586.9	1552.0	1485.0	1334.1	1195.4
35°	1864.3	1866.2	1839.8	1786.0	1707.7	1650.1	1655.8	1613.3	1546.3	1378.4	1223.7
37.5°	1972.8	1979.4	1939.8	1899.2	1826.6	1728.4	1734.1	1676.5	1607.7	1434.1	1253.9
40°	2122.8	2109.6	2042.6	1994.5	1914.3	1810.5	1815.2	1747.3	1678.4	1486.9	1288.8
42.5°	2248.3	2224.7	2143.6	2082.2	1986.0	1897.3	1902.0	1823.7	1750.1	1545.4	1327.5
45°	2428.5	2363.4	2246.4	2216.2	2059.6	1982.2	1986.9	1904.9	1825.6	1607.7	1369.0
47.5°	2533.2	2429.4	2354.9	2338.9	2140.7	2070.0	2075.6	1990.7	1906.8	1678.4	1412.4
50°	2526.6	2459.6	2437.9	2398.3	2212.4	2152.1	2157.7	2079.4	1988.8	1748.2	1453.9
52.5°	2483.2	2495.5	2484.2	2418.1	2284.1	2231.3	2237.9	2167.1	2072.8	1813.3	1492.6
55°	2550.2	2558.7	2537.0	2450.2	2363.4	2310.6	2318.1	2259.6	2155.8	1870.9	1525.6
57.5°	2630.4	2600.2	2578.5	2506.8	2445.5	2396.4	2404.9	2354.0	2227.5	1917.1	1551.1
60°	2626.6	2563.4	2585.1	2510.6	2501.1	2475.7	2483.2	2431.3	2282.3	1951.1	1561.4
62.5°	2433.2	2399.2	2508.7	2483.2	2546.4	2546.4	2555.9	2478.5	2315.3	1965.2	1555.8
65°	2097.3	2099.2	2291.7	2397.4	2600.2	2643.6	2651.1	2507.7	2296.4	1923.7	1502.9
67.5°	1670.9	1683.1	1959.6	2179.4	2546.4	2709.6	2710.6	2534.2	2215.3	1806.7	1380.3
70°	1222.7	1232.2	1558.6	1825.6	2292.6	2563.4	2548.3	2459.6	2038.8	1603.0	1188.8
72.5°	826.5	835.0	1170.8	1402.0	1881.3	2183.2	2150.2	2173.8	1737.9	1317.1	955.7
75°	555.7	566.1	833.1	1002.9	1384.1	1657.7	1584.1	1646.4	1344.4	997.2	697.2
77.5°	350.0	356.6	529.3	657.6	945.4	1128.4	1054.8	1055.7	774.6	536.8	374.6
80°	222.7	224.5	320.8	379.3	547.2	678.4	600.0	487.8	349.1	284.9	223.6
82.5°	129.3	126.4	191.5	214.2	260.4	257.6	213.2	201.9	152.8	142.5	114.2
85°	51.9	48.1	84.0	78.3	79.3	84.0	62.3	62.3	50.0	38.7	28.3
87.5°	10.4	10.4	11.3	10.4	10.4	11.3	8.5	8.5	7.5	7.5	7.5
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: P799641

CATALOG NUMBER: ARCH2-40-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0	1034.0
2.5°	1026.5	1024.6	1019.9	1007.6	1001.0	997.2	991.6	989.7	988.8	989.7	992.5
5°	1029.3	1022.7	1009.5	989.7	976.5	968.0	958.6	954.8	952.0	952.0	954.8
7.5°	1031.2	1020.8	998.2	968.9	950.1	936.9	925.5	920.8	919.9	922.7	923.7
10°	1032.2	1017.1	985.0	948.2	923.7	906.7	895.4	892.5	895.4	901.0	902.0
12.5°	1038.8	1018.0	977.4	934.0	904.8	887.8	879.3	879.3	886.9	897.2	898.2
15°	1050.1	1024.6	973.7	922.7	892.5	877.4	874.6	879.3	890.6	906.7	908.6
17.5°	1058.6	1028.4	965.2	907.6	876.5	867.0	871.8	883.1	899.1	920.8	922.7
20°	1064.2	1028.4	952.9	889.7	860.4	858.6	871.8	889.7	906.7	932.1	935.0
22.5°	1069.9	1026.5	938.8	868.0	842.5	848.2	872.7	895.4	912.3	939.7	944.4
25°	1080.3	1029.3	924.6	846.3	823.6	839.7	871.8	899.1	917.1	945.4	952.9
27.5°	1094.4	1035.9	914.2	826.5	804.8	826.5	865.2	898.2	917.1	944.4	952.9
30°	1109.5	1043.5	902.0	804.8	783.1	807.6	851.0	887.8	909.5	935.0	945.4
32.5°	1125.6	1052.0	891.6	781.2	756.7	782.1	830.3	871.8	895.4	918.9	930.3
35°	1147.3	1067.1	885.9	762.3	733.1	755.7	803.8	851.0	876.5	898.2	911.4
37.5°	1173.7	1085.9	883.1	743.5	707.6	726.5	775.5	825.5	852.9	870.8	883.1
40°	1203.9	1109.5	882.1	725.5	682.1	696.3	746.3	796.3	822.7	836.9	847.2
42.5°	1237.8	1135.9	880.3	707.6	656.7	668.0	718.0	767.0	789.7	801.9	811.4
45°	1273.7	1162.4	876.5	685.9	629.3	642.5	688.7	732.1	755.7	766.1	776.5
47.5°	1309.5	1188.8	868.9	661.4	604.8	617.0	657.6	695.3	714.2	723.6	734.0
50°	1344.4	1212.4	851.0	633.1	579.3	590.6	621.7	647.2	661.4	668.9	679.3
52.5°	1375.6	1228.4	825.5	600.0	553.8	559.5	580.2	601.9	613.3	614.2	623.6
55°	1402.0	1236.9	788.7	566.1	526.5	527.4	538.7	555.7	560.4	556.6	563.3
57.5°	1417.1	1232.2	748.2	531.2	498.2	494.4	502.9	511.4	512.3	502.9	509.5
60°	1420.9	1210.5	695.3	496.3	469.8	459.5	462.3	460.4	458.5	454.8	460.4
62.5°	1402.0	1164.2	636.8	462.3	439.7	423.6	422.7	421.7	424.6	425.5	426.4
65°	1333.1	1077.4	567.0	427.4	407.6	385.9	384.9	396.3	400.0	394.4	396.3
67.5°	1200.1	944.4	490.6	386.8	367.0	348.1	355.7	362.3	368.9	367.0	368.9
70°	1011.4	775.5	420.8	341.5	322.7	312.3	320.8	326.4	327.4	325.5	327.4
72.5°	795.3	605.7	355.7	295.3	278.3	273.6	284.0	288.7	297.2	301.0	301.9
75°	574.6	447.2	291.5	245.3	231.1	231.1	240.6	249.1	256.6	251.9	249.1
77.5°	320.8	267.0	209.5	168.9	171.7	184.9	188.7	198.1	205.7	204.7	202.8
80°	194.4	167.0	141.5	109.4	108.5	118.9	143.4	159.4	163.2	154.7	153.8
82.5°	101.0	87.7	75.5	61.3	67.9	79.3	83.0	100.0	110.4	106.6	111.3
85°	25.5	24.5	27.4	28.3	34.9	38.7	42.5	50.0	33.0	16.0	16.0
87.5°	7.5	7.5	9.4	9.4	12.3	15.1	14.2	14.2	7.5	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)