

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: P799481

Luminaire Tested: **ARCH2-30-722-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799481
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: ARCH2-30-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307 lumens
Efficiency: N/A
Efficacy: 125.2 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

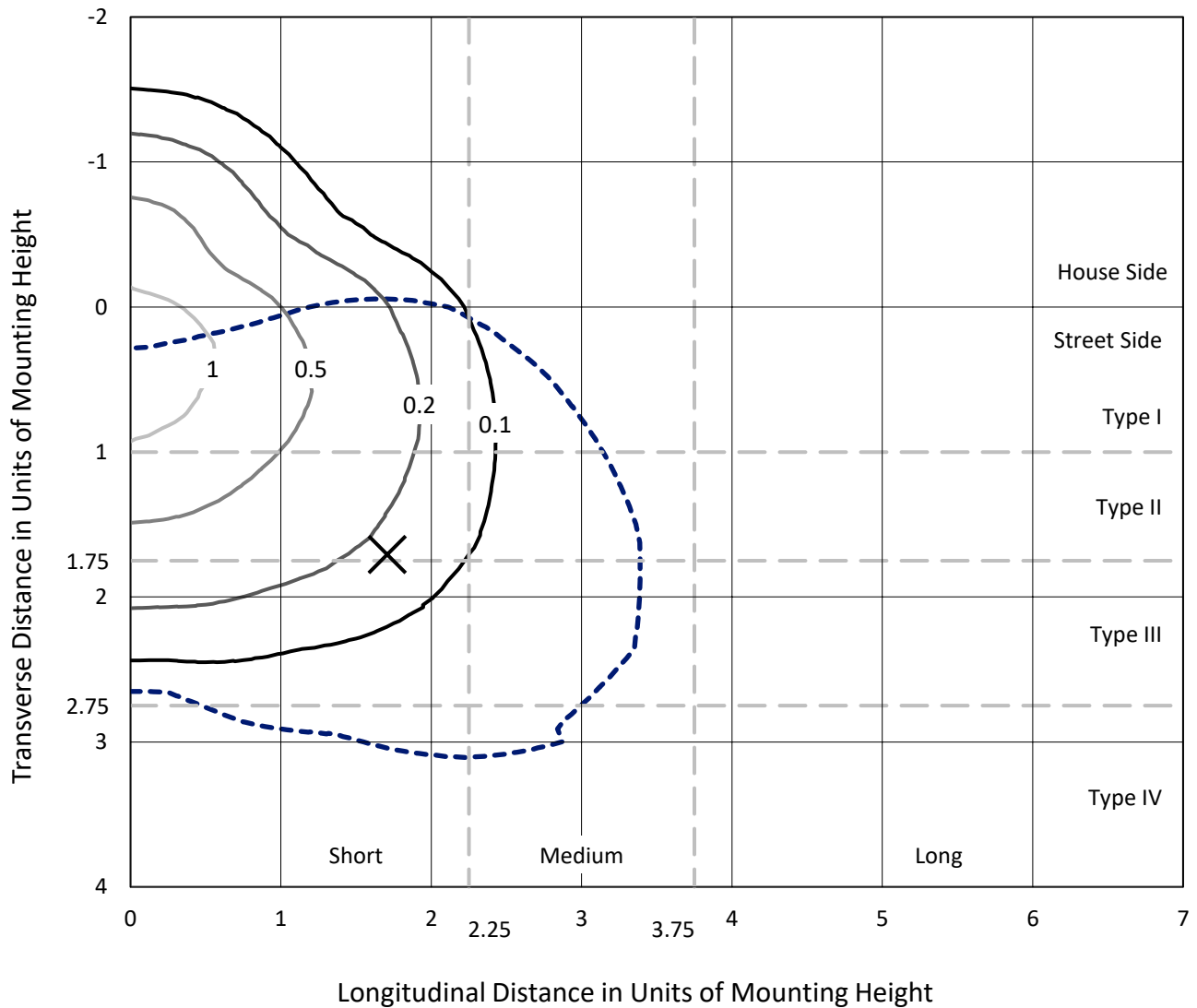
Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

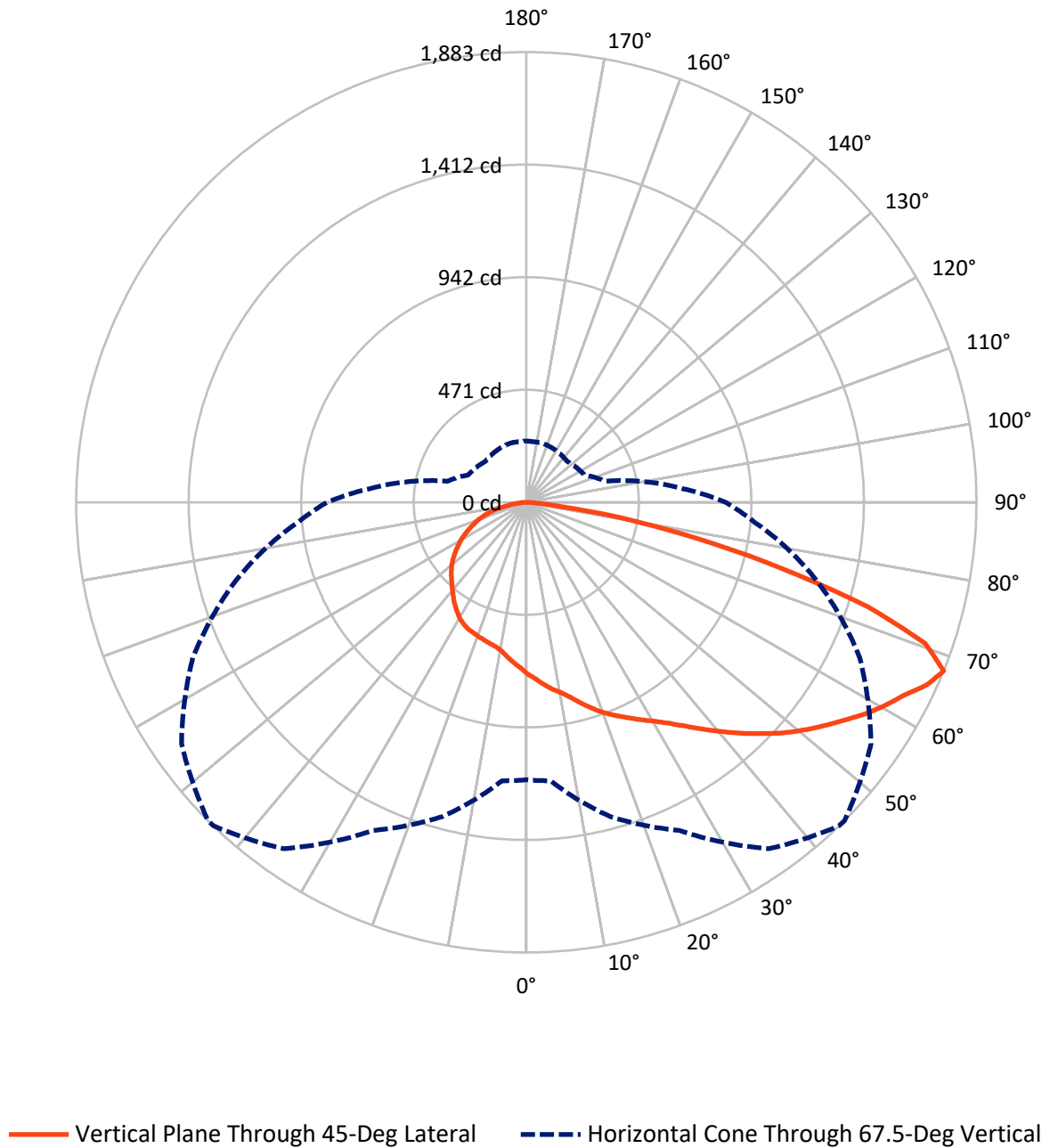
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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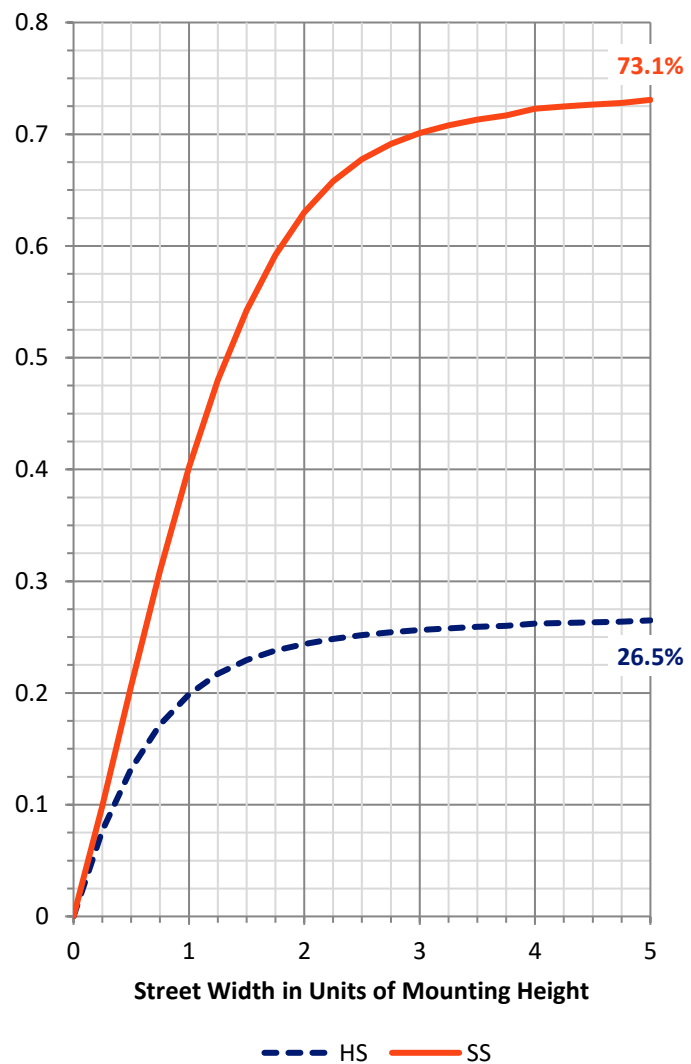
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1150.6	0.0	1150.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	3156.4	0.0	3156.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	4307.0	0.0	4307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.6
10°-20°	212.5	4.9
20°-30°	366.7	8.5
30°-40°	540.8	12.6
40°-50°	732.7	17.0
50°-60°	895.5	20.8
60°-70°	923.6	21.4
70°-80°	505.9	11.7
80°-90°	60.6	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°	4307.0	100.0
0°-180°	4307.0	100.0

Coefficient of Utilization



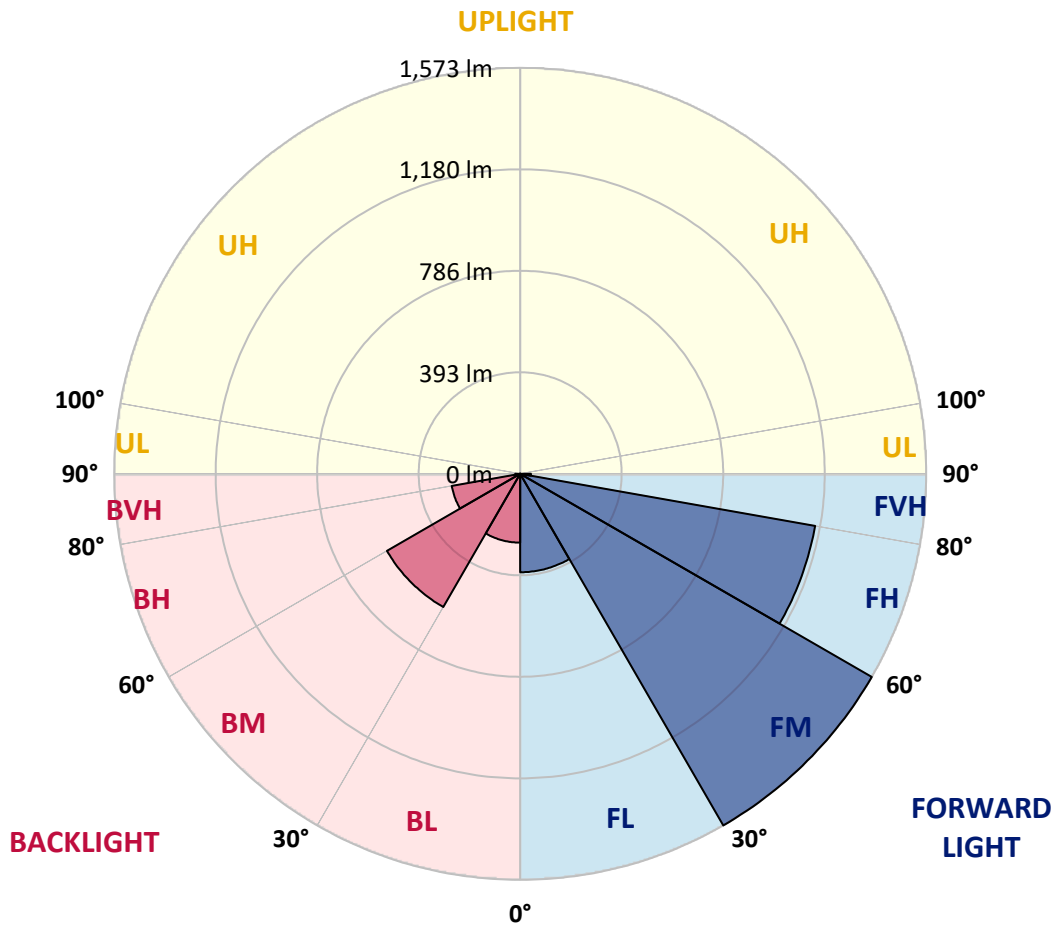
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.3	8.9			
FM (30°-60°)	1573.0	36.5			
FH (60°-80°)	1160.4	26.9			G1/1800
FVH (80°-90°)	41.8	1.0			G1/100
BL (0°-30°)	266.7	6.2	B1/500		
BM (30°-60°)	596.0	13.8	B1/1000		
BH (60°-80°)	269.1	6.2	B1/500		G1/500
BVH (80°-90°)	18.9	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°	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3
2.5°	749.8	749.1	750.4	745.9	740.0	739.3	739.3	735.4	730.8	721.6	714.4
5°	785.2	783.9	784.5	778.0	770.1	766.2	765.5	757.0	746.5	732.1	719.0
7.5°	817.9	816.6	816.0	808.8	797.0	790.4	789.8	777.3	764.9	742.6	723.6
10°	848.8	847.4	846.1	836.3	821.9	812.0	810.7	795.0	779.3	751.8	727.5
12.5°	888.1	885.5	884.1	872.3	851.4	840.9	838.9	817.9	798.3	764.9	735.4
15°	929.4	927.4	925.4	914.3	890.7	876.9	873.7	847.4	820.6	781.9	747.2
17.5°	960.2	958.2	958.2	948.4	926.7	911.0	908.4	876.9	843.5	797.6	756.3
20°	979.2	977.2	979.2	973.3	956.9	943.8	941.2	906.4	866.4	812.0	764.2
22.5°	992.9	991.0	994.3	991.6	979.8	972.0	970.0	935.9	890.0	827.1	772.1
25°	1017.2	1017.2	1017.2	1012.6	1001.5	998.8	998.8	969.3	920.2	846.8	783.9
27.5°	1065.7	1063.1	1059.8	1046.7	1027.7	1027.0	1031.0	1003.4	954.9	872.3	798.3
30°	1137.1	1135.8	1123.4	1095.8	1063.7	1060.4	1063.1	1040.1	992.3	899.2	814.7
32.5°	1229.5	1225.0	1199.4	1158.1	1112.2	1097.2	1102.4	1078.1	1031.6	926.7	830.4
35°	1295.1	1296.4	1278.0	1240.7	1186.3	1146.3	1150.2	1120.7	1074.2	957.5	850.1
37.5°	1370.5	1375.0	1347.5	1319.3	1268.9	1200.7	1204.6	1164.7	1116.8	996.2	871.0
40°	1474.7	1465.5	1419.0	1385.5	1329.8	1257.7	1261.0	1213.8	1166.0	1032.9	895.3
42.5°	1561.8	1545.4	1489.1	1446.5	1379.6	1318.0	1321.3	1266.9	1215.8	1073.6	922.2
45°	1687.0	1641.8	1560.5	1539.6	1430.8	1377.0	1380.3	1323.3	1268.2	1116.8	951.0
47.5°	1759.8	1687.7	1635.9	1624.8	1487.1	1438.0	1441.9	1382.9	1324.6	1166.0	981.1
50°	1755.2	1708.6	1693.6	1666.0	1536.9	1495.0	1498.9	1444.5	1381.6	1214.5	1010.0
52.5°	1725.0	1733.6	1725.7	1679.8	1586.7	1550.0	1554.6	1505.5	1439.9	1259.7	1036.9
55°	1771.6	1777.5	1762.4	1702.1	1641.8	1605.1	1610.3	1569.7	1497.6	1299.7	1059.8
57.5°	1827.3	1806.3	1791.2	1741.4	1698.8	1664.7	1670.6	1635.2	1547.4	1331.8	1077.5
60°	1824.7	1780.7	1795.8	1744.0	1737.5	1719.8	1725.0	1689.0	1585.4	1355.4	1084.7
62.5°	1690.3	1666.7	1742.7	1725.0	1768.9	1768.9	1775.5	1721.8	1608.4	1365.2	1080.8
65°	1457.0	1458.3	1592.0	1665.4	1806.3	1836.5	1841.7	1742.1	1595.3	1336.4	1044.1
67.5°	1160.7	1169.2	1361.3	1514.0	1768.9	1882.3	1883.0	1760.4	1538.9	1255.1	958.9
70°	849.4	856.0	1082.7	1268.2	1592.6	1780.7	1770.3	1708.6	1416.3	1113.5	825.8
72.5°	574.1	580.0	813.4	973.9	1306.9	1516.6	1493.7	1510.1	1207.3	914.9	663.9
75°	386.0	393.2	578.7	696.7	961.5	1151.5	1100.4	1143.7	934.0	692.8	484.3
77.5°	243.2	247.7	367.7	456.8	656.7	783.9	732.7	733.4	538.1	372.9	260.2
80°	154.7	156.0	222.8	263.5	380.1	471.2	416.8	338.8	242.5	197.9	155.3
82.5°	89.8	87.8	133.0	148.8	180.9	178.9	148.1	140.3	106.2	99.0	79.3
85°	36.0	33.4	58.3	54.4	55.1	58.3	43.3	43.3	34.7	26.9	19.7
87.5°	7.2	7.2	7.9	7.2	7.2	7.9	5.9	5.9	5.2	5.2	5.2
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°	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3
2.5°	713.1	711.8	708.5	700.0	695.4	692.8	688.8	687.5	686.9	687.5	689.5
5°	715.0	710.5	701.3	687.5	678.3	672.4	665.9	663.3	661.3	661.3	663.3
7.5°	716.4	709.2	693.4	673.1	660.0	650.8	643.0	639.7	639.0	641.0	641.6
10°	717.0	706.5	684.2	658.7	641.6	629.8	622.0	620.0	622.0	625.9	626.6
12.5°	721.6	707.2	679.0	648.9	628.5	616.7	610.8	610.8	616.1	623.3	623.9
15°	729.5	711.8	676.4	641.0	620.0	609.5	607.6	610.8	618.7	629.8	631.2
17.5°	735.4	714.4	670.5	630.5	608.9	602.3	605.6	613.5	624.6	639.7	641.0
20°	739.3	714.4	662.0	618.0	597.7	596.4	605.6	618.0	629.8	647.5	649.5
22.5°	743.2	713.1	652.1	603.0	585.3	589.2	606.3	622.0	633.8	652.8	656.1
25°	750.4	715.0	642.3	587.9	572.2	583.3	605.6	624.6	637.1	656.7	662.0
27.5°	760.3	719.6	635.1	574.1	559.1	574.1	601.0	623.9	637.1	656.1	662.0
30°	770.8	724.9	626.6	559.1	544.0	561.0	591.2	616.7	631.8	649.5	656.7
32.5°	781.9	730.8	619.4	542.7	525.6	543.3	576.8	605.6	622.0	638.4	646.2
35°	797.0	741.3	615.4	529.6	509.3	525.0	558.4	591.2	608.9	623.9	633.1
37.5°	815.3	754.4	613.5	516.5	491.6	504.7	538.7	573.5	592.5	604.9	613.5
40°	836.3	770.8	612.8	504.0	473.9	483.7	518.4	553.2	571.5	581.3	588.6
42.5°	859.9	789.1	611.5	491.6	456.2	464.0	498.8	532.8	548.6	557.1	563.6
45°	884.8	807.5	608.9	476.5	437.2	446.3	478.4	508.6	525.0	532.2	539.4
47.5°	909.7	825.8	603.6	459.4	420.1	428.6	456.8	483.0	496.1	502.7	509.9
50°	934.0	842.2	591.2	439.8	402.4	410.3	431.9	449.6	459.4	464.7	471.9
52.5°	955.6	853.3	573.5	416.8	384.7	388.7	403.1	418.1	426.0	426.7	433.2
55°	973.9	859.2	547.9	393.2	365.7	366.4	374.2	386.0	389.3	386.7	391.3
57.5°	984.4	856.0	519.7	369.0	346.1	343.4	349.3	355.2	355.9	349.3	353.9
60°	987.0	840.9	483.0	344.7	326.4	319.2	321.1	319.8	318.5	315.9	319.8
62.5°	973.9	808.8	442.4	321.1	305.4	294.3	293.6	293.0	294.9	295.6	296.2
65°	926.1	748.5	393.9	296.9	283.1	268.1	267.4	275.3	277.9	274.0	275.3
67.5°	833.7	656.1	340.8	268.7	255.0	241.8	247.1	251.7	256.3	255.0	256.3
70°	702.6	538.7	292.3	237.3	224.1	216.9	222.8	226.8	227.4	226.1	227.4
72.5°	552.5	420.8	247.1	205.1	193.3	190.1	197.3	200.6	206.5	209.1	209.7
75°	399.1	310.7	202.5	170.4	160.6	160.6	167.1	173.0	178.3	175.0	173.0
77.5°	222.8	185.5	145.5	117.3	119.3	128.5	131.1	137.6	142.9	142.2	140.9
80°	135.0	116.0	98.3	76.0	75.4	82.6	99.6	110.8	113.4	107.5	106.8
82.5°	70.1	61.0	52.4	42.6	47.2	55.1	57.7	69.5	76.7	74.1	77.3
85°	17.7	17.0	19.0	19.7	24.3	26.9	29.5	34.7	22.9	11.1	11.1
87.5°	5.2	5.2	6.6	6.6	8.5	10.5	9.8	9.8	5.2	0.7	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)