

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: P798841

Luminaire Tested: **ARCH1-40-722-U-T4W**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798841  
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: ARCH1-40-722-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4706 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

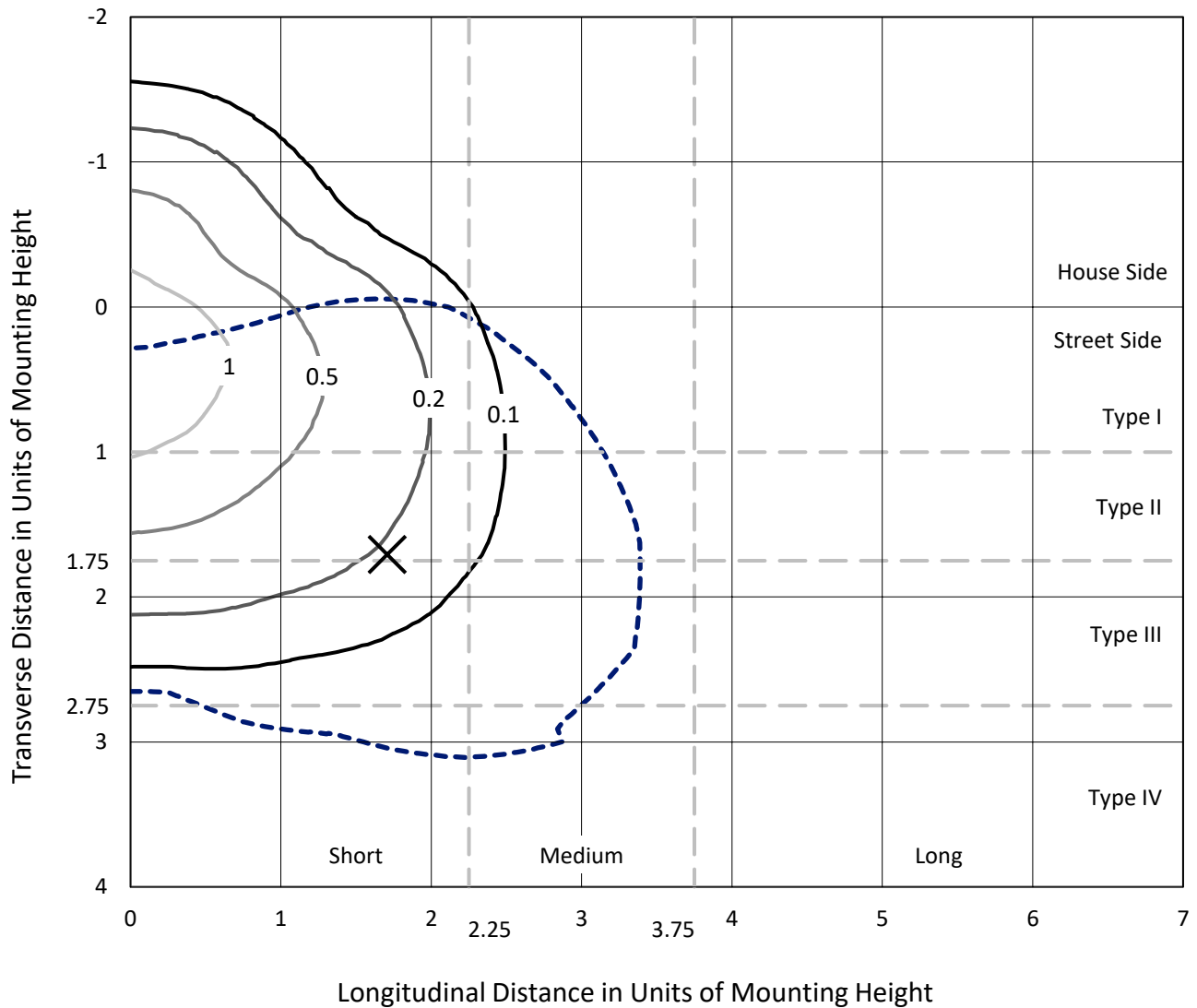
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P798841  
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### Iso-Footcandle Lines of Horizontal Illumination

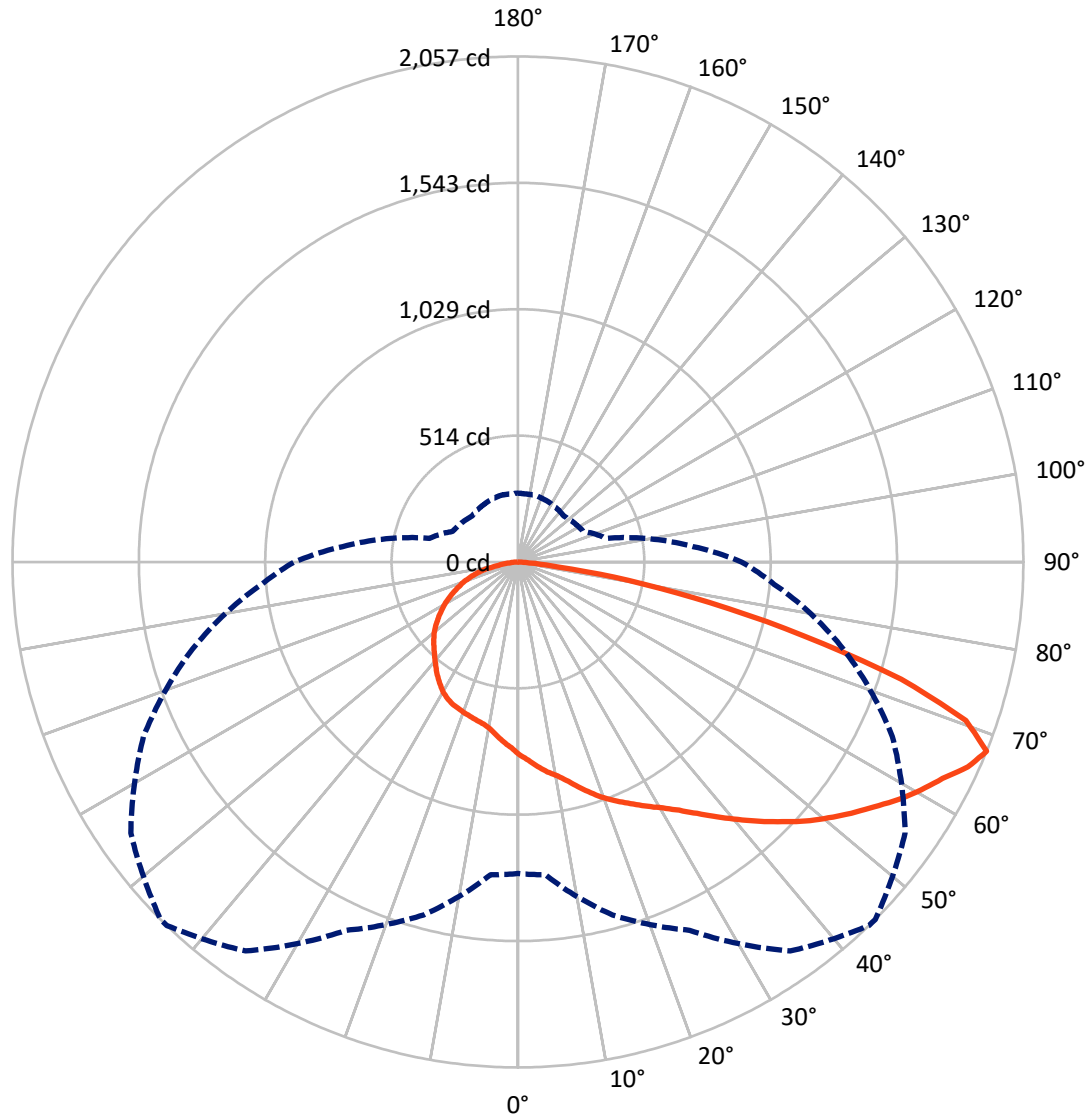
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P798841  
CATALOG NUMBER: ARCH1-40-722-U-T4W

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARCH1-40-722-U-T4W

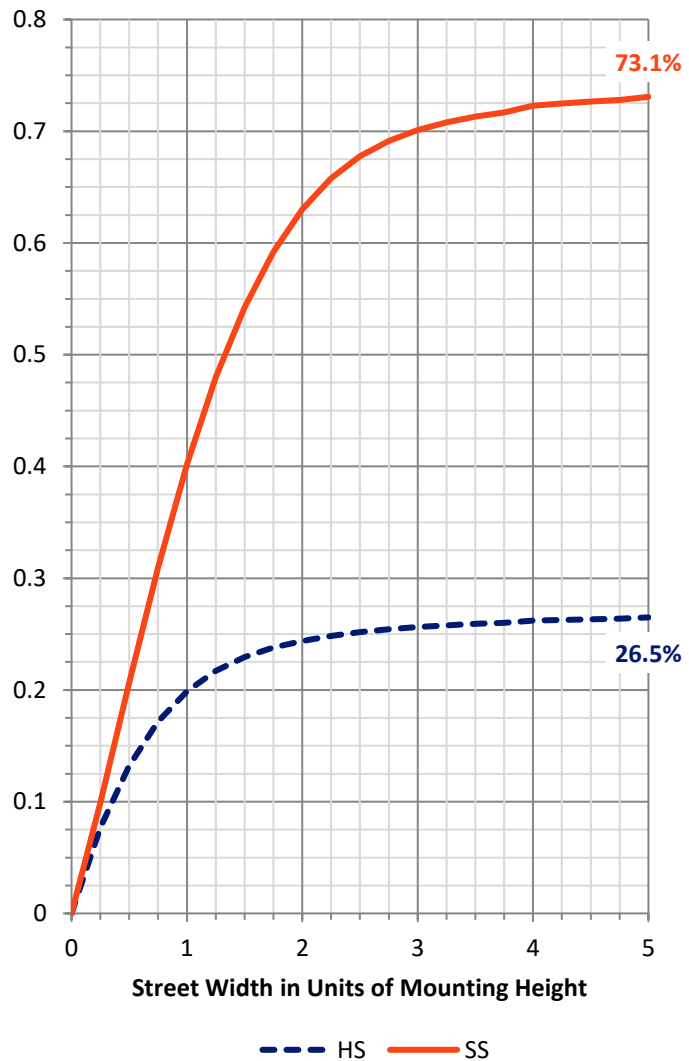
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1257.2	0.0	1257.2
	% Fixture	26.7	0.0	26.7
<b>Street Side</b>	Lumens	3448.8	0.0	3448.8
	% Fixture	73.3	0.0	73.3
<b>Total</b>	Lumens	4706.0	0.0	4706.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.1	1.6
10°-20°	232.1	4.9
20°-30°	400.7	8.5
30°-40°	590.9	12.6
40°-50°	800.5	17.0
50°-60°	978.5	20.8
60°-70°	1009.1	21.4
70°-80°	552.7	11.7
80°-90°	66.3	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°	4706.0	100.0
0°-180°	4706.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P798841

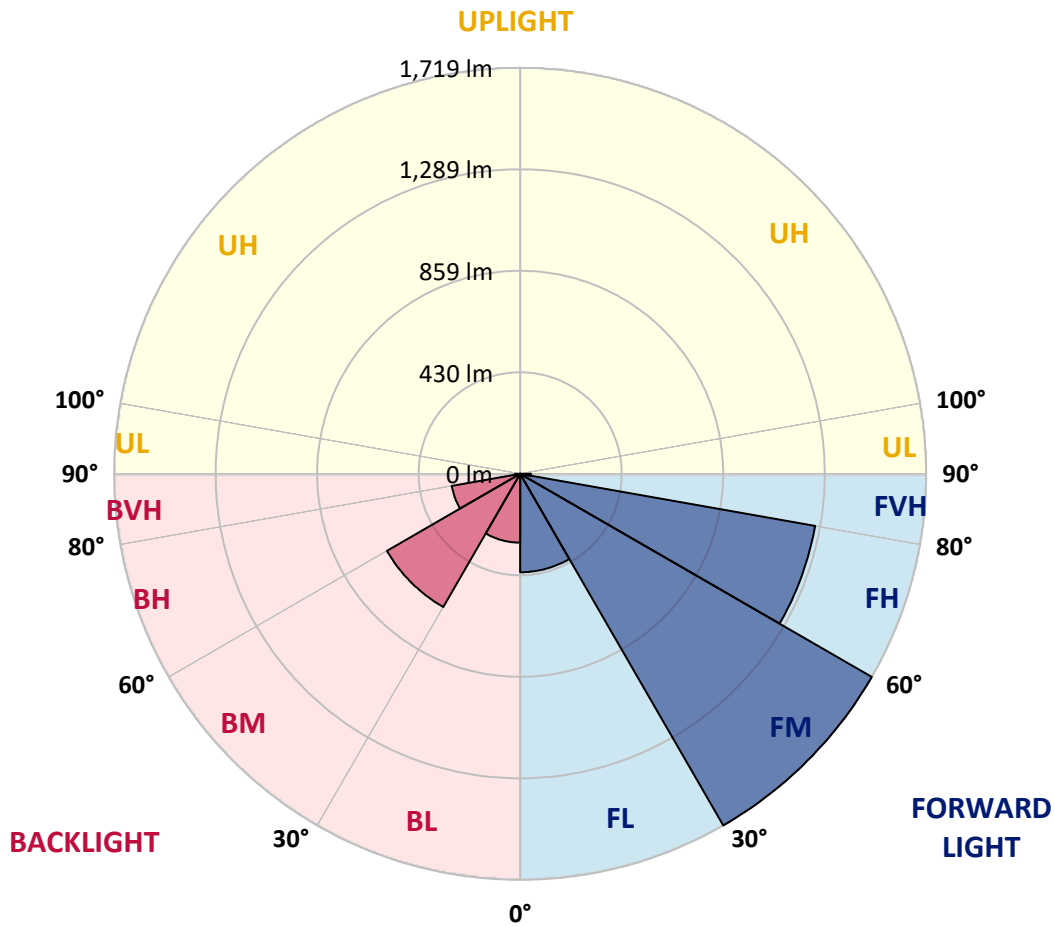
CATALOG NUMBER: ARCH1-40-722-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.6	8.9			
FM (30°-60°)	1718.7	36.5			
FH (60°-80°)	1267.9	26.9			G1/1800
FVH (80°-90°)	45.6	1.0			G1/100
BL (0°-30°)	291.4	6.2	B1/500		
BM (30°-60°)	651.2	13.8	B1/1000		
BH (60°-80°)	294.0	6.2	B1/500		G1/500
BVH (80°-90°)	20.6	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



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CATALOG NUMBER: ARCH1-40-722-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	819.2	818.5	820.0	814.9	808.5	807.8	807.8	803.5	798.5	788.5	780.6
5°	857.9	856.5	857.2	850.0	841.4	837.1	836.4	827.1	815.7	799.9	785.6
7.5°	893.7	892.3	891.6	883.7	870.8	863.6	862.9	849.3	835.7	811.4	790.6
10°	927.4	925.9	924.5	913.8	898.0	887.3	885.8	868.7	851.5	821.4	794.9
12.5°	970.3	967.5	966.1	953.2	930.2	918.8	916.6	893.7	872.2	835.7	803.5
15°	1015.5	1013.3	1011.2	999.0	973.2	958.2	954.6	925.9	896.6	854.3	816.4
17.5°	1049.1	1047.0	1047.0	1036.2	1012.6	995.4	992.5	958.2	921.7	871.5	826.4
20°	1069.9	1067.7	1069.9	1063.4	1045.5	1031.2	1028.4	990.4	946.7	887.3	835.0
22.5°	1084.9	1082.8	1086.4	1083.5	1070.6	1062.0	1059.9	1022.6	972.5	903.7	843.6
25°	1111.4	1111.4	1111.4	1106.4	1094.2	1091.4	1091.4	1059.1	1005.4	925.2	856.5
27.5°	1164.4	1161.6	1158.0	1143.6	1122.9	1122.2	1126.5	1096.4	1043.4	953.2	872.2
30°	1242.5	1241.0	1227.4	1197.4	1162.3	1158.7	1161.6	1136.5	1084.2	982.5	890.1
32.5°	1343.4	1338.4	1310.5	1265.4	1215.3	1198.8	1204.5	1178.0	1127.2	1012.6	907.3
35°	1415.1	1416.5	1396.4	1355.6	1296.2	1252.5	1256.8	1224.6	1173.7	1046.3	928.8
37.5°	1497.4	1502.4	1472.4	1441.6	1386.4	1311.9	1316.2	1272.6	1220.3	1088.5	951.7
40°	1611.3	1601.3	1550.4	1513.9	1453.0	1374.2	1377.8	1326.3	1274.0	1128.6	978.2
42.5°	1706.5	1688.6	1627.0	1580.5	1507.4	1440.1	1443.7	1384.3	1328.4	1173.0	1007.6
45°	1843.3	1793.9	1705.1	1682.2	1563.3	1504.6	1508.2	1445.9	1385.7	1220.3	1039.1
47.5°	1922.8	1844.0	1787.4	1775.3	1624.9	1571.2	1575.5	1511.0	1447.3	1274.0	1072.0
50°	1917.8	1866.9	1850.5	1820.4	1679.3	1633.5	1637.8	1578.3	1509.6	1327.0	1103.5
52.5°	1884.8	1894.1	1885.6	1835.4	1733.7	1693.6	1698.6	1644.9	1573.3	1376.4	1132.9
55°	1935.7	1942.1	1925.7	1859.8	1793.9	1753.8	1759.5	1715.1	1636.3	1420.1	1158.0
57.5°	1996.6	1973.6	1957.2	1902.7	1856.2	1819.0	1825.4	1786.7	1690.8	1455.2	1177.3
60°	1993.7	1945.7	1962.2	1905.6	1898.4	1879.1	1884.8	1845.5	1732.3	1480.9	1185.2
62.5°	1846.9	1821.1	1904.2	1884.8	1932.8	1932.8	1940.0	1881.3	1757.4	1491.7	1180.9
65°	1591.9	1593.4	1739.5	1819.7	1973.6	2006.6	2012.3	1903.5	1743.0	1460.2	1140.8
67.5°	1268.3	1277.6	1487.4	1654.2	1932.8	2056.7	2057.4	1923.5	1681.5	1371.4	1047.7
70°	928.1	935.3	1183.0	1385.7	1740.2	1945.7	1934.3	1866.9	1547.5	1216.7	902.3
72.5°	627.3	633.8	888.7	1064.2	1428.0	1657.1	1632.0	1649.9	1319.1	999.7	725.4
75°	421.8	429.7	632.3	761.2	1050.6	1258.2	1202.4	1249.6	1020.5	756.9	529.2
77.5°	265.7	270.7	401.7	499.1	717.6	856.5	800.6	801.3	587.9	407.5	284.3
80°	169.0	170.4	243.5	287.9	415.4	514.9	455.5	370.2	265.0	216.3	169.7
82.5°	98.1	96.0	145.4	162.6	197.7	195.5	161.8	153.3	116.0	108.1	86.7
85°	39.4	36.5	63.7	59.4	60.2	63.7	47.3	47.3	38.0	29.4	21.5
87.5°	7.9	7.9	8.6	7.9	7.9	8.6	6.4	6.4	5.7	5.7	5.7
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: P798841  
 CATALOG NUMBER: ARCH1-40-722-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	779.1	777.7	774.1	764.8	759.8	756.9	752.6	751.2	750.5	751.2	753.4
5°	781.3	776.3	766.3	751.2	741.2	734.7	727.6	724.7	722.6	722.6	724.7
7.5°	782.7	774.8	757.7	735.5	721.1	711.1	702.5	698.9	698.2	700.4	701.1
10°	783.4	772.0	747.6	719.7	701.1	688.2	679.6	677.5	679.6	683.9	684.6
12.5°	788.5	772.7	741.9	709.0	686.8	673.9	667.4	667.4	673.2	681.0	681.7
15°	797.0	777.7	739.0	700.4	677.5	666.0	663.8	667.4	676.0	688.2	689.6
17.5°	803.5	780.6	732.6	688.9	665.3	658.1	661.7	670.3	682.5	698.9	700.4
20°	807.8	780.6	723.3	675.3	653.1	651.7	661.7	675.3	688.2	707.5	709.7
22.5°	812.1	779.1	712.5	658.8	639.5	643.8	662.4	679.6	692.5	713.3	716.8
25°	820.0	781.3	701.8	642.4	625.2	637.4	661.7	682.5	696.1	717.6	723.3
27.5°	830.7	786.3	693.9	627.3	610.9	627.3	656.7	681.7	696.1	716.8	723.3
30°	842.2	792.0	684.6	610.9	594.4	613.0	645.9	673.9	690.3	709.7	717.6
32.5°	854.3	798.5	676.7	593.0	574.3	593.7	630.2	661.7	679.6	697.5	706.1
35°	870.8	809.9	672.4	578.6	556.4	573.6	610.1	645.9	665.3	681.7	691.8
37.5°	890.9	824.3	670.3	564.3	537.1	551.4	588.7	626.6	647.4	661.0	670.3
40°	913.8	842.2	669.6	550.7	517.8	528.5	566.5	604.4	624.5	635.2	643.1
42.5°	939.6	862.2	668.1	537.1	498.4	507.0	545.0	582.2	599.4	608.7	615.9
45°	966.8	882.3	665.3	520.6	477.7	487.7	522.8	555.7	573.6	581.5	589.4
47.5°	994.0	902.3	659.5	502.0	459.0	468.3	499.1	527.8	542.1	549.3	557.1
50°	1020.5	920.2	645.9	480.5	439.7	448.3	471.9	491.3	502.0	507.7	515.6
52.5°	1044.1	932.4	626.6	455.5	420.4	424.7	440.4	456.9	465.5	466.2	473.4
55°	1064.2	938.8	598.7	429.7	399.6	400.3	408.9	421.8	425.4	422.5	427.5
57.5°	1075.6	935.3	567.9	403.2	378.1	375.2	381.7	388.1	388.9	381.7	386.7
60°	1078.5	918.8	527.8	376.7	356.6	348.8	350.9	349.5	348.0	345.2	349.5
62.5°	1064.2	883.7	483.4	350.9	333.7	321.5	320.8	320.1	322.3	323.0	323.7
65°	1011.9	817.8	430.4	324.4	309.4	292.9	292.2	300.8	303.6	299.3	300.8
67.5°	910.9	716.8	372.4	293.6	278.6	264.2	270.0	275.0	280.0	278.6	280.0
70°	767.7	588.7	319.4	259.2	244.9	237.0	243.5	247.8	248.5	247.1	248.5
72.5°	603.7	459.8	270.0	224.1	211.3	207.7	215.6	219.1	225.6	228.4	229.2
75°	436.1	339.4	221.3	186.2	175.5	175.5	182.6	189.1	194.8	191.2	189.1
77.5°	243.5	202.7	159.0	128.2	130.3	140.4	143.2	150.4	156.1	155.4	154.0
80°	147.5	126.8	107.4	83.1	82.4	90.2	108.9	121.0	123.9	117.4	116.7
82.5°	76.6	66.6	57.3	46.5	51.6	60.2	63.0	75.9	83.8	80.9	84.5
85°	19.3	18.6	20.8	21.5	26.5	29.4	32.2	38.0	25.1	12.2	12.2
87.5°	5.7	5.7	7.2	7.2	9.3	11.5	10.7	10.7	5.7	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)