

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: P798729

Luminaire Tested: **ARCH1-30-727-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798729
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: ARCH1-30-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4202 lumens
Efficiency: N/A
Efficacy: 127.3 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

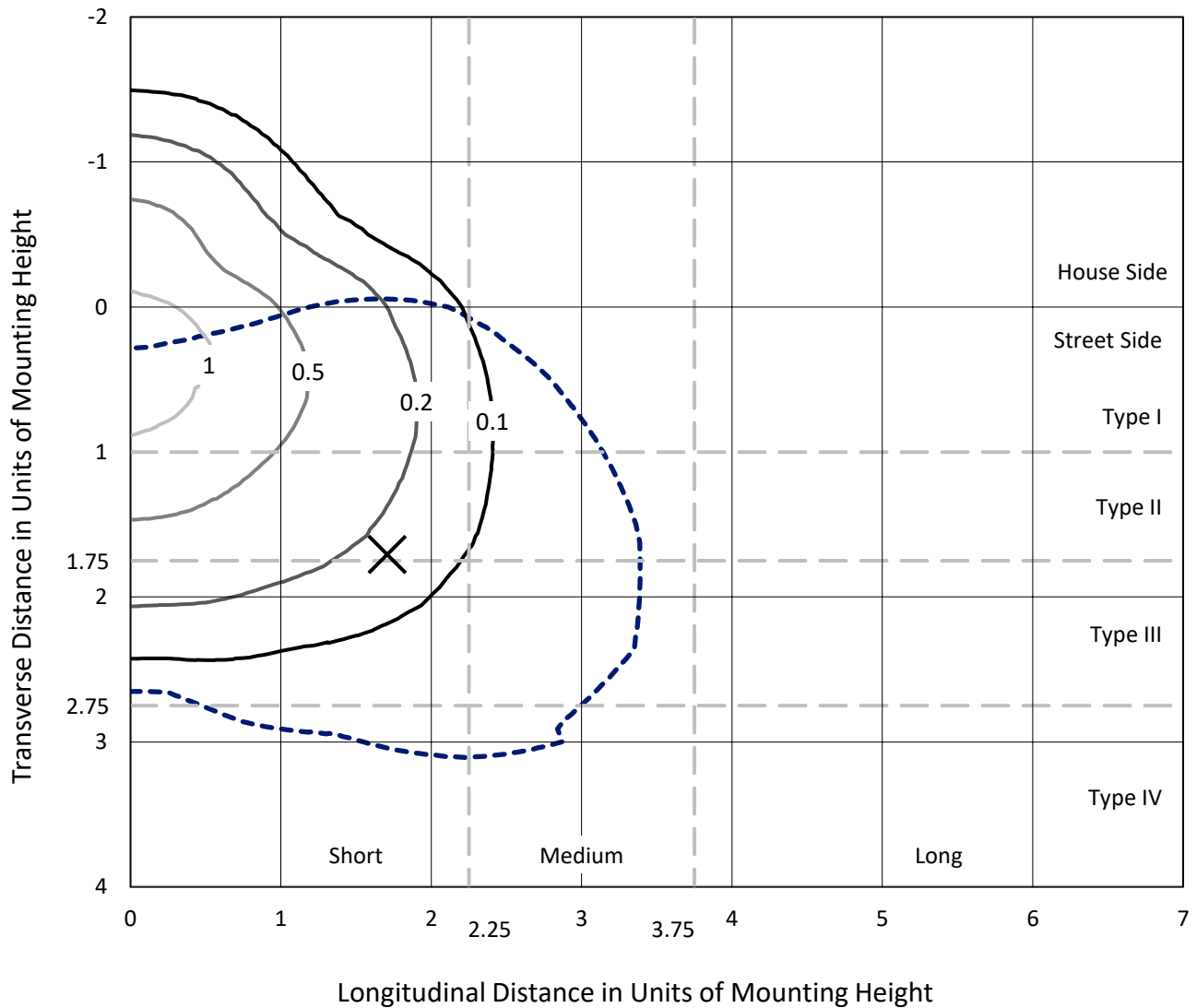
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P798729
 CATALOG NUMBER: ARCH1-30-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

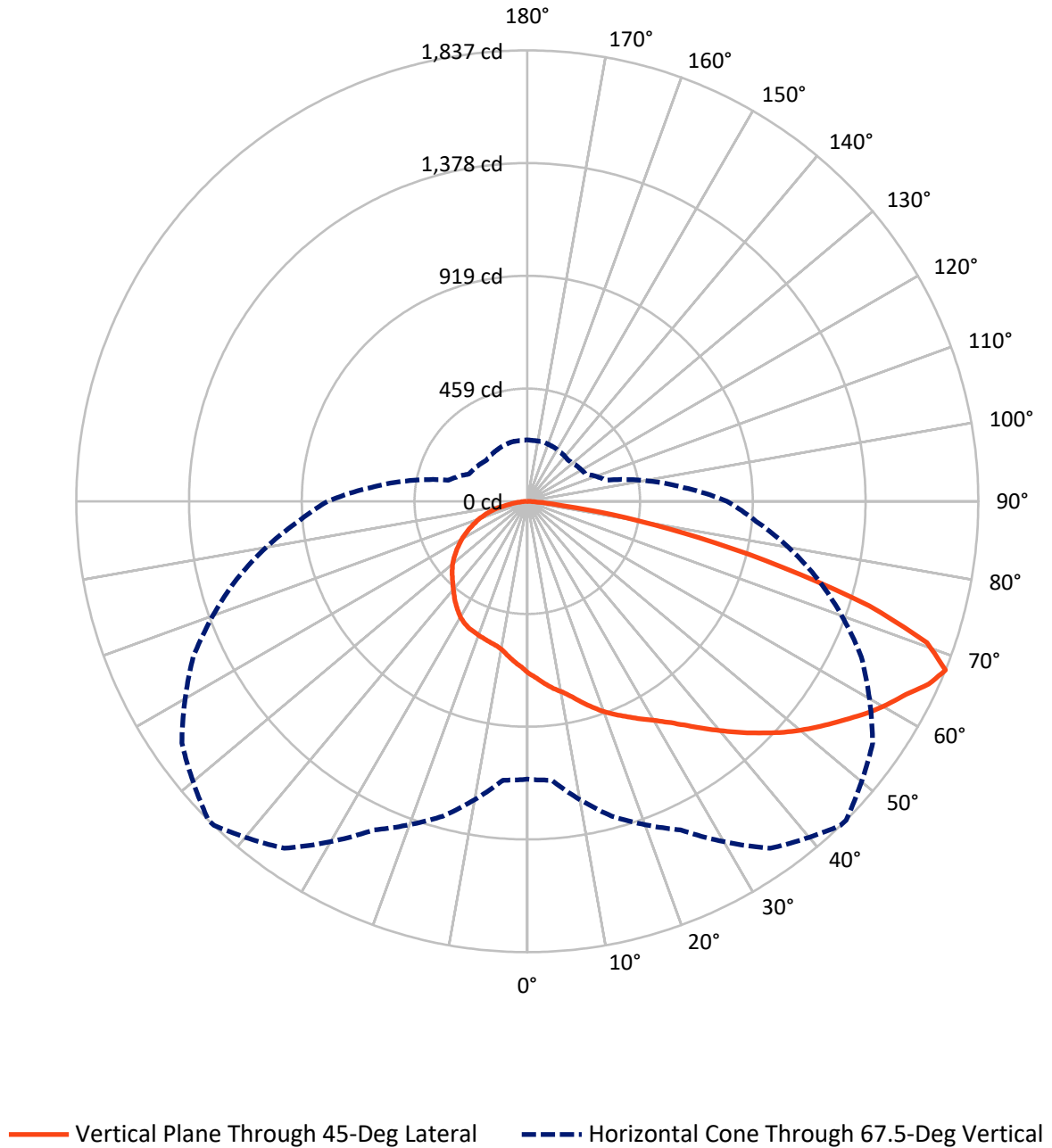
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P798729
CATALOG NUMBER: ARCH1-30-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P798729
 CATALOG NUMBER: ARCH1-30-727-U-T4W

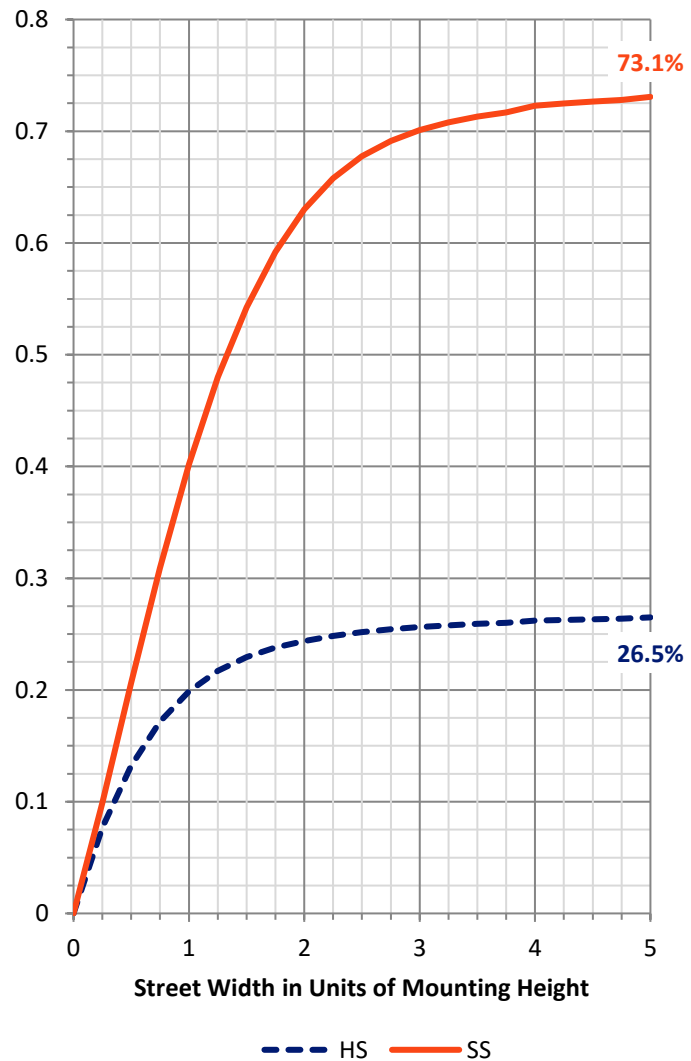
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1122.6	0.0	1122.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	3079.4	0.0	3079.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	4202.0	0.0	4202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.6
10°-20°	207.3	4.9
20°-30°	357.8	8.5
30°-40°	527.6	12.6
40°-50°	714.8	17.0
50°-60°	873.7	20.8
60°-70°	901.1	21.4
70°-80°	493.5	11.7
80°-90°	59.2	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°	4202.0	100.0
0°-180°	4202.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798729

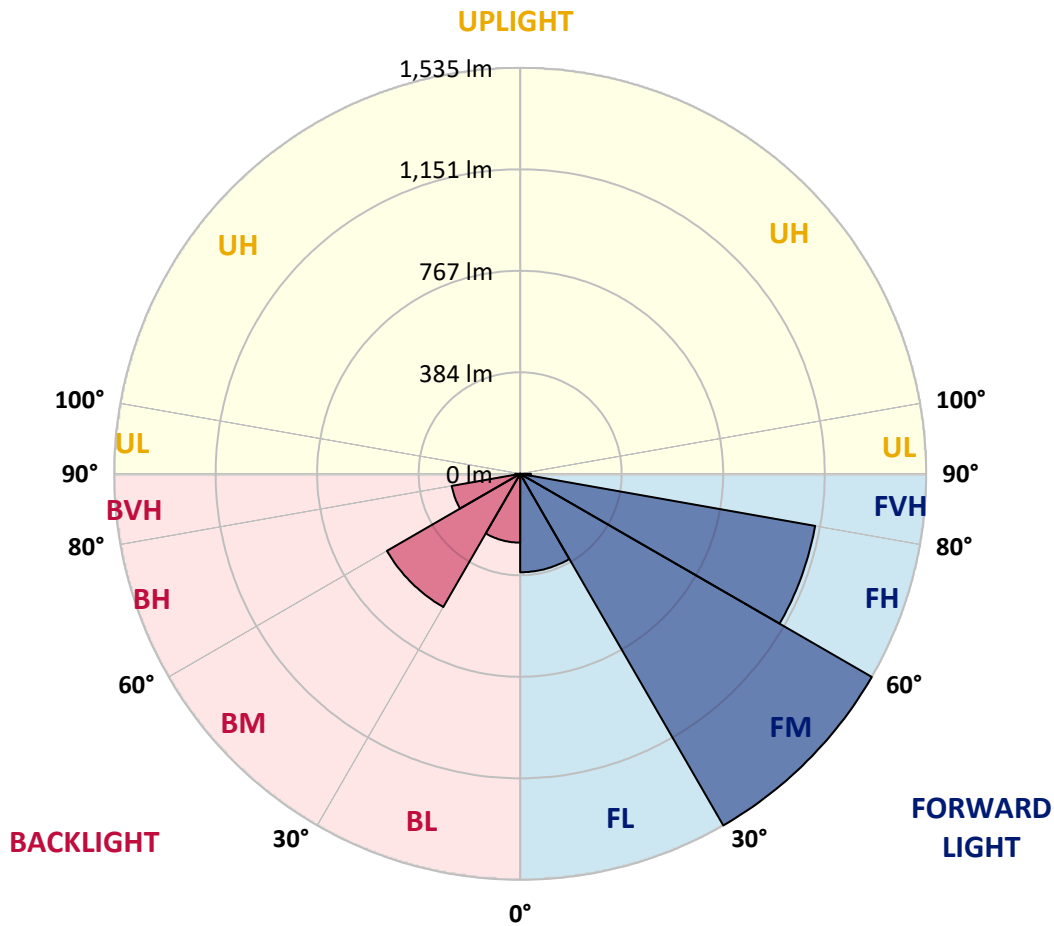
CATALOG NUMBER: ARCH1-30-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.0	8.9			
FM (30°-60°)	1534.6	36.5			
FH (60°-80°)	1132.1	26.9			G1/1800
FVH (80°-90°)	40.8	1.0			G1/100
BL (0°-30°)	260.2	6.2	B1/500		
BM (30°-60°)	581.5	13.8	B1/1000		
BH (60°-80°)	262.5	6.2	B1/500		G1/500
BVH (80°-90°)	18.4	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: P798729

CATALOG NUMBER: ARCH1-30-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	700.8	700.8	700.8	700.8	700.8	700.8	700.8	700.8	700.8	700.8	700.8
2.5°	731.5	730.9	732.1	727.7	721.9	721.3	721.3	717.4	713.0	704.0	697.0
5°	766.0	764.8	765.4	759.0	751.3	747.5	746.9	738.5	728.3	714.2	701.5
7.5°	798.0	796.7	796.1	789.1	777.5	771.2	770.5	758.4	746.2	724.5	705.9
10°	828.1	826.8	825.5	815.9	801.8	792.3	791.0	775.6	760.3	733.4	709.8
12.5°	866.4	863.9	862.6	851.1	830.6	820.4	818.5	798.0	778.8	746.2	717.4
15°	906.7	904.8	902.9	892.0	869.0	855.6	852.4	826.8	800.6	762.8	728.9
17.5°	936.8	934.8	934.8	925.3	904.2	888.8	886.2	855.6	822.9	778.2	737.9
20°	955.3	953.4	955.3	949.6	933.6	920.8	918.2	884.3	845.3	792.3	745.6
22.5°	968.7	966.8	970.0	967.5	955.9	948.3	946.4	913.1	868.3	807.0	753.2
25°	992.4	992.4	992.4	987.9	977.0	974.5	974.5	945.7	897.8	826.1	764.8
27.5°	1039.7	1037.2	1034.0	1021.2	1002.6	1002.0	1005.8	979.0	931.6	851.1	778.8
30°	1109.4	1108.1	1096.0	1069.1	1037.8	1034.6	1037.2	1014.8	968.1	877.3	794.8
32.5°	1199.6	1195.1	1170.2	1129.9	1085.1	1070.4	1075.5	1051.9	1006.5	904.2	810.2
35°	1263.5	1264.8	1246.9	1210.4	1157.4	1118.4	1122.2	1093.4	1048.0	934.2	829.3
37.5°	1337.0	1341.5	1314.7	1287.2	1237.9	1171.4	1175.3	1136.3	1089.6	971.9	849.8
40°	1438.7	1429.8	1384.4	1351.8	1297.4	1227.1	1230.3	1184.2	1137.5	1007.7	873.5
42.5°	1523.8	1507.8	1452.8	1411.2	1346.0	1285.9	1289.1	1236.0	1186.1	1047.4	899.7
45°	1645.9	1601.8	1522.5	1502.0	1395.9	1343.4	1346.6	1291.0	1237.3	1089.6	927.8
47.5°	1716.9	1646.5	1596.0	1585.1	1450.9	1402.9	1406.7	1349.2	1292.3	1137.5	957.2
50°	1712.4	1667.0	1652.3	1625.4	1499.5	1458.5	1462.4	1409.3	1347.9	1184.9	985.4
52.5°	1683.0	1691.3	1683.6	1638.9	1548.1	1512.2	1516.7	1468.8	1404.8	1229.0	1011.6
55°	1728.4	1734.1	1719.4	1660.6	1601.8	1566.0	1571.1	1531.4	1461.1	1268.0	1034.0
57.5°	1782.7	1762.3	1747.6	1699.0	1657.4	1624.1	1629.9	1595.4	1509.7	1299.3	1051.2
60°	1780.2	1737.3	1752.0	1701.5	1695.1	1677.9	1683.0	1647.8	1546.8	1322.3	1058.3
62.5°	1649.1	1626.1	1700.2	1683.0	1725.8	1725.8	1732.2	1679.8	1569.2	1331.9	1054.4
65°	1421.5	1422.7	1553.2	1624.8	1762.3	1791.7	1796.8	1699.6	1556.4	1303.8	1018.6
67.5°	1132.4	1140.7	1328.1	1477.1	1725.8	1836.4	1837.1	1717.5	1501.4	1224.5	935.5
70°	828.7	835.1	1056.3	1237.3	1553.8	1737.3	1727.1	1667.0	1381.8	1086.4	805.7
72.5°	560.1	565.9	793.5	950.2	1275.0	1479.6	1457.3	1473.2	1177.8	892.6	647.7
75°	376.6	383.7	564.6	679.7	938.0	1123.5	1073.6	1115.8	911.2	675.9	472.5
77.5°	237.2	241.7	358.7	445.7	640.7	764.8	714.9	715.5	525.0	363.8	253.9
80°	150.9	152.2	217.4	257.1	370.9	459.7	406.7	330.6	236.6	193.1	151.5
82.5°	87.6	85.7	129.8	145.2	176.5	174.6	144.5	136.8	103.6	96.6	77.4
85°	35.2	32.6	56.9	53.1	53.7	56.9	42.2	42.2	33.9	26.2	19.2
87.5°	7.0	7.0	7.7	7.0	7.0	7.7	5.8	5.8	5.1	5.1	5.1
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: P798729

CATALOG NUMBER: ARCH1-30-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	700.8	700.8	700.8	700.8	700.8	700.8	700.8	700.8	700.8	700.8	700.8
2.5°	695.7	694.4	691.2	682.9	678.4	675.9	672.0	670.8	670.1	670.8	672.7
5°	697.6	693.1	684.2	670.8	661.8	656.1	649.7	647.1	645.2	645.2	647.1
7.5°	698.9	691.9	676.5	656.7	643.9	635.0	627.3	624.1	623.4	625.4	626.0
10°	699.5	689.3	667.6	642.6	626.0	614.5	606.8	604.9	606.8	610.7	611.3
12.5°	704.0	689.9	662.4	633.0	613.2	601.7	595.9	595.9	601.1	608.1	608.7
15°	711.7	694.4	659.9	625.4	604.9	594.7	592.8	595.9	603.6	614.5	615.8
17.5°	717.4	697.0	654.1	615.1	594.0	587.6	590.8	598.5	609.4	624.1	625.4
20°	721.3	697.0	645.8	603.0	583.2	581.9	590.8	603.0	614.5	631.8	633.7
22.5°	725.1	695.7	636.2	588.3	571.0	574.8	591.5	606.8	618.3	636.9	640.1
25°	732.1	697.6	626.6	573.6	558.2	569.1	590.8	609.4	621.5	640.7	645.8
27.5°	741.7	702.1	619.6	560.1	545.4	560.1	586.4	608.7	621.5	640.1	645.8
30°	752.0	707.2	611.3	545.4	530.7	547.4	576.8	601.7	616.4	633.7	640.7
32.5°	762.8	713.0	604.3	529.4	512.8	530.1	562.7	590.8	606.8	622.8	630.5
35°	777.5	723.2	600.4	516.7	496.8	512.2	544.8	576.8	594.0	608.7	617.7
37.5°	795.4	736.0	598.5	503.9	479.6	492.4	525.6	559.5	578.0	590.2	598.5
40°	815.9	752.0	597.9	491.7	462.3	471.9	505.8	539.7	557.6	567.2	574.2
42.5°	838.9	769.9	596.6	479.6	445.0	452.7	486.6	519.9	535.2	543.5	549.9
45°	863.2	787.8	594.0	464.9	426.5	435.5	466.8	496.2	512.2	519.2	526.2
47.5°	887.5	805.7	588.9	448.2	409.9	418.2	445.7	471.3	484.0	490.4	497.5
50°	911.2	821.7	576.8	429.1	392.6	400.3	421.4	438.6	448.2	453.4	460.4
52.5°	932.3	832.5	559.5	406.7	375.3	379.2	393.2	408.0	415.6	416.3	422.7
55°	950.2	838.3	534.6	383.7	356.8	357.4	365.1	376.6	379.8	377.3	381.7
57.5°	960.4	835.1	507.1	360.0	337.6	335.1	340.8	346.6	347.2	340.8	345.3
60°	963.0	820.4	471.3	336.3	318.4	311.4	313.3	312.0	310.8	308.2	312.0
62.5°	950.2	789.1	431.6	313.3	298.0	287.1	286.5	285.8	287.7	288.4	289.0
65°	903.5	730.2	384.3	289.7	276.2	261.5	260.9	268.6	271.1	267.3	268.6
67.5°	813.4	640.1	332.5	262.2	248.7	235.9	241.1	245.5	250.0	248.7	250.0
70°	685.5	525.6	285.2	231.5	218.7	211.7	217.4	221.2	221.9	220.6	221.9
72.5°	539.0	410.5	241.1	200.1	188.6	185.4	192.5	195.7	201.4	204.0	204.6
75°	389.4	303.1	197.6	166.3	156.7	156.7	163.1	168.8	173.9	170.7	168.8
77.5°	217.4	181.0	142.0	114.5	116.4	125.3	127.9	134.3	139.4	138.8	137.5
80°	131.7	113.2	95.9	74.2	73.5	80.6	97.2	108.1	110.6	104.9	104.2
82.5°	68.4	59.5	51.2	41.6	46.0	53.7	56.3	67.8	74.8	72.3	75.5
85°	17.3	16.6	18.5	19.2	23.7	26.2	28.8	33.9	22.4	10.9	10.9
87.5°	5.1	5.1	6.4	6.4	8.3	10.2	9.6	9.6	5.1	0.6	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)