

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: P798838

Luminaire Tested: **ARCH1-40-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-40-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3415 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - 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

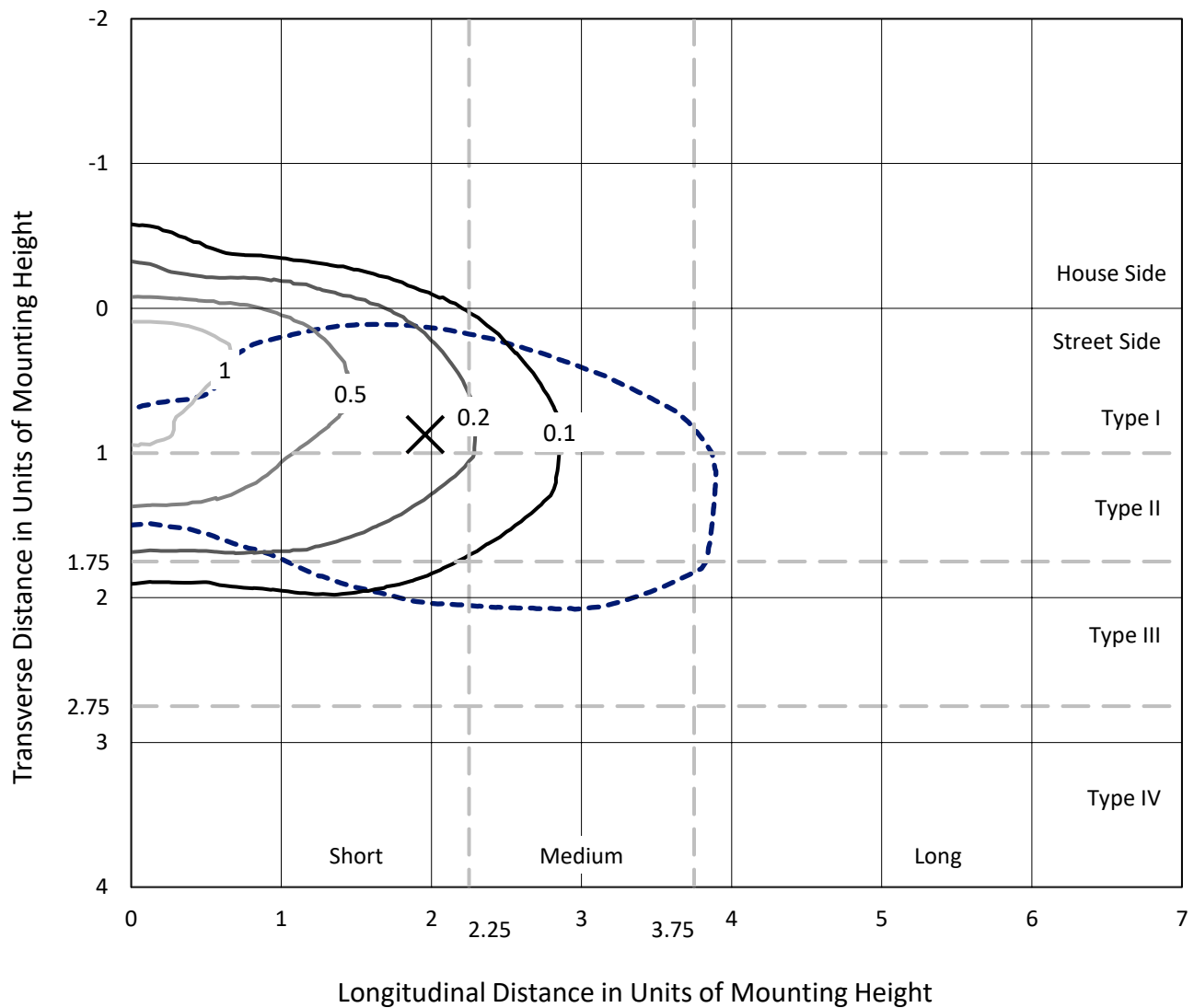


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

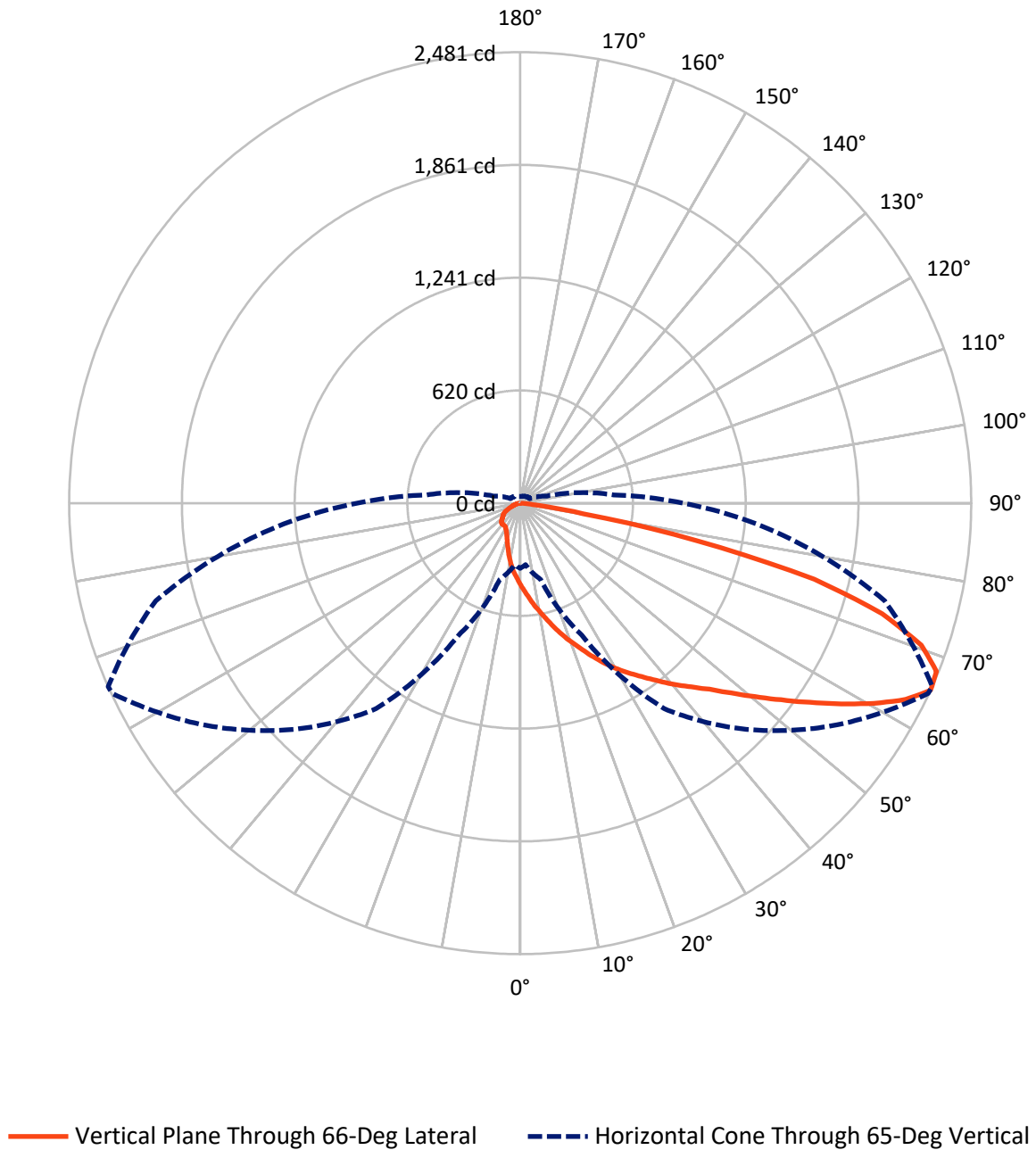


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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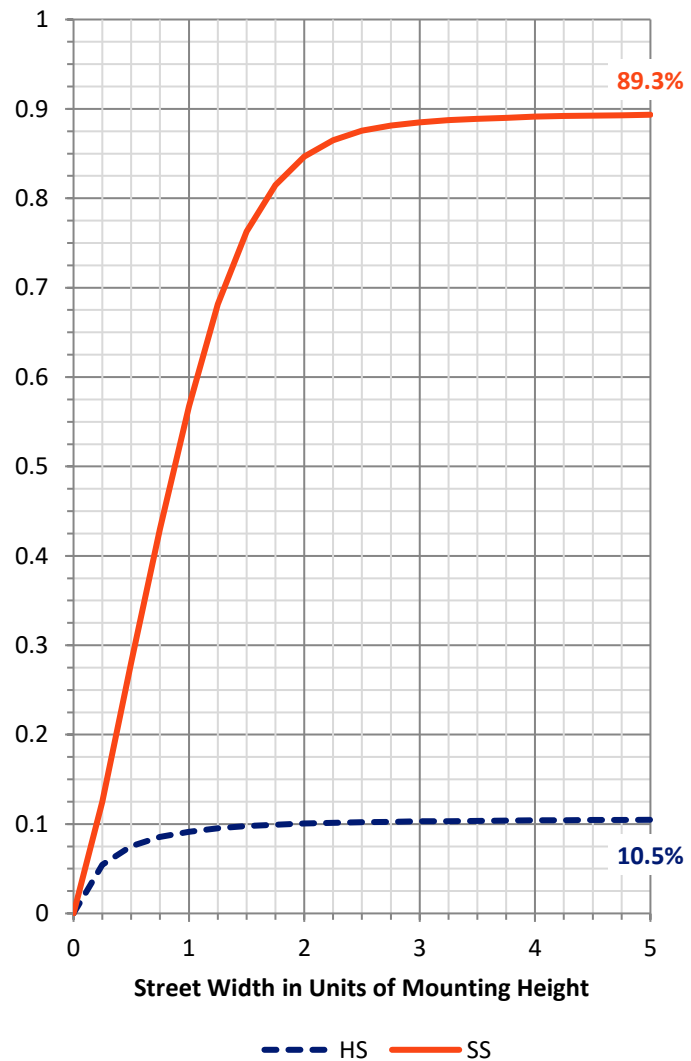
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	361.2	0.0	361.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3053.8	0.0	3053.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	3415.0	0.0	3415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.3
10°-20°	145.4	4.3
20°-30°	263.1	7.7
30°-40°	411.4	12.0
40°-50°	624.0	18.3
50°-60°	792.8	23.2
60°-70°	740.8	21.7
70°-80°	368.2	10.8
80°-90°	24.7	0.7
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°	3415.0	100.0
0°-180°	3415.0	100.0

Coefficient of Utilization



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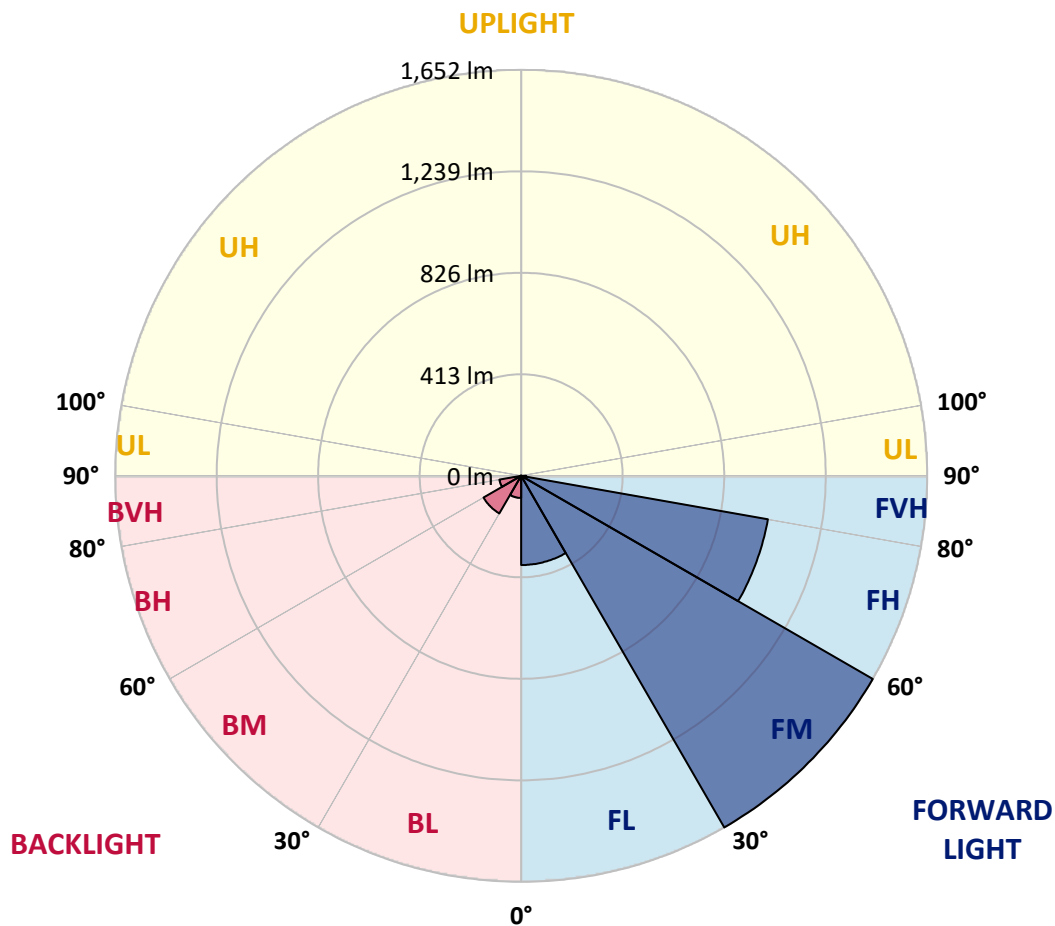
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.8	10.6			
FM	(30°-60°)	1651.5	48.4			
FH	(60°-80°)	1019.0	29.8			G1/1800
FVH	(80°-90°)	20.4	0.6			G1/100
BL	(0°-30°)	90.2	2.6	B0/110		
BM	(30°-60°)	176.7	5.2	B0/220		
BH	(60°-80°)	90.0	2.6	B0/110		G0/110
BVH	(80°-90°)	4.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0
2.5°	527.9	532.2	534.3	535.0	518.6	511.4	504.2	487.8	484.2	474.9	462.7
5°	621.0	626.7	625.3	622.4	602.4	579.4	560.8	530.0	525.0	502.8	475.6
7.5°	712.7	717.7	716.3	705.5	683.3	651.1	620.3	575.2	568.0	532.2	488.5
10°	789.3	793.6	792.9	782.1	755.6	716.3	679.0	618.8	610.2	559.4	499.2
12.5°	852.3	858.1	857.4	850.2	826.6	783.6	741.3	669.0	658.2	592.3	514.3
15°	901.8	908.9	908.9	906.1	889.6	853.8	805.8	724.1	711.2	630.3	532.9
17.5°	931.8	937.6	942.6	947.6	936.1	908.9	865.2	779.3	765.7	667.5	552.2
20°	947.6	953.3	956.9	967.7	969.8	956.2	921.8	833.7	819.4	709.8	574.4
22.5°	973.4	978.4	979.1	988.4	992.7	996.3	974.8	887.4	876.0	756.4	599.5
25°	1016.4	1022.1	1019.9	1024.2	1025.0	1029.3	1027.1	949.0	937.6	809.4	629.6
27.5°	1071.5	1078.7	1077.2	1072.9	1066.5	1062.9	1072.2	1011.4	1000.6	862.4	660.4
30°	1131.0	1139.6	1137.4	1128.8	1111.6	1096.6	1109.5	1070.1	1060.1	916.8	694.8
32.5°	1191.1	1201.2	1200.4	1186.1	1156.8	1131.0	1150.3	1125.2	1118.1	975.5	732.0
35°	1230.5	1243.4	1242.0	1233.4	1195.4	1173.2	1196.9	1181.8	1176.8	1047.2	785.7
37.5°	1294.3	1307.9	1295.7	1274.2	1230.5	1219.1	1247.7	1245.6	1242.0	1123.1	842.3
40°	1449.0	1469.0	1436.8	1348.7	1277.1	1267.1	1307.9	1316.5	1312.9	1198.3	893.2
42.5°	1610.9	1640.9	1590.8	1469.0	1361.6	1325.1	1373.8	1386.0	1381.7	1262.8	939.0
45°	1709.0	1721.9	1671.7	1577.2	1511.3	1395.3	1444.0	1464.0	1460.4	1340.1	997.7
47.5°	1789.2	1784.2	1726.9	1663.1	1675.3	1494.1	1523.5	1562.9	1560.0	1425.3	1062.2
50°	1806.4	1794.9	1772.0	1731.9	1764.1	1594.4	1607.3	1675.3	1672.5	1519.9	1127.4
52.5°	1685.3	1670.3	1732.6	1766.3	1755.5	1667.4	1699.7	1798.5	1797.1	1622.3	1189.7
55°	1383.1	1370.9	1538.5	1712.6	1746.2	1719.0	1802.1	1926.7	1934.6	1731.2	1246.3
57.5°	1088.0	1075.1	1239.8	1577.9	1711.8	1766.3	1921.7	2073.6	2083.6	1849.4	1300.0
60°	867.4	848.0	974.1	1365.9	1647.4	1802.8	2037.0	2234.7	2236.1	1957.5	1332.9
62.5°	589.5	568.0	707.7	1097.3	1539.2	1808.5	2125.8	2373.7	2379.4	2038.5	1338.7
65°	358.1	340.2	434.8	801.5	1379.5	1759.8	2127.3	2476.1	2481.1	2075.7	1304.3
67.5°	207.7	200.6	248.5	499.2	1114.5	1628.8	2037.7	2460.3	2469.6	2059.9	1226.2
70°	121.0	120.3	138.2	247.1	786.4	1368.8	1837.9	2327.8	2341.4	1977.6	1106.6
72.5°	88.8	90.2	97.4	132.5	455.5	985.6	1556.4	2061.4	2082.2	1816.4	936.1
75°	70.2	70.9	77.4	90.2	239.2	557.2	1166.1	1654.5	1671.0	1529.2	731.3
77.5°	52.3	53.7	58.7	63.7	111.0	255.7	656.1	1019.2	992.0	839.5	353.1
80°	38.0	41.5	43.7	45.8	58.7	98.8	197.0	355.3	352.4	366.7	166.9
82.5°	24.4	27.2	29.4	30.8	35.1	47.3	58.7	79.5	86.0	142.5	66.6
85°	10.7	12.2	13.6	16.5	15.0	16.5	24.4	15.8	13.6	21.5	12.2
87.5°	0.0	0.0	2.1	3.6	2.9	1.4	4.3	2.9	2.1	2.1	2.1
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°	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0
2.5°	456.3	448.4	431.9	416.1	406.8	394.7	383.9	373.9	373.2	370.3	365.3
5°	462.0	446.9	416.1	386.8	364.6	340.9	320.9	305.1	299.4	295.1	289.4
7.5°	467.7	444.1	398.2	355.3	320.2	287.2	263.6	242.1	235.6	229.9	226.3
10°	469.9	439.1	377.5	320.2	274.3	239.2	214.2	198.4	192.7	189.8	187.7
12.5°	476.3	436.2	358.1	287.2	234.2	202.0	184.1	174.8	172.6	170.5	168.3
15°	484.9	436.2	338.8	255.0	202.7	176.9	166.2	159.7	158.3	157.6	156.1
17.5°	494.2	436.2	320.2	227.8	179.8	160.4	152.6	149.0	148.3	147.5	146.8
20°	507.1	436.9	300.1	204.1	163.3	148.3	141.8	137.5	136.8	136.1	136.1
22.5°	520.0	438.3	280.8	186.2	152.6	139.0	131.1	126.8	125.3	125.3	125.3
25°	536.5	442.6	262.9	171.2	143.3	130.4	120.3	116.7	116.0	116.0	115.3
27.5°	555.8	447.7	247.1	159.7	133.9	120.3	110.3	106.7	105.3	105.3	104.6
30°	576.6	452.7	234.2	151.1	124.6	110.3	101.0	96.7	95.3	96.0	95.3
32.5°	599.5	459.8	224.2	145.4	116.0	101.7	93.1	88.1	87.4	87.4	86.7
35°	638.2	479.9	222.8	142.5	108.9	95.3	86.7	81.7	80.9	80.9	80.2
37.5°	679.7	502.8	229.2	141.1	103.1	89.5	81.7	76.6	75.9	75.9	75.9
40°	714.8	520.0	236.4	141.1	99.6	84.5	77.4	73.1	73.1	73.1	73.1
42.5°	738.5	521.4	234.9	141.1	96.7	80.9	74.5	70.2	70.2	70.9	70.2
45°	773.6	528.6	229.2	139.0	94.5	78.1	71.6	68.0	67.3	68.0	68.0
47.5°	815.1	541.5	223.5	130.4	93.8	75.2	69.5	65.2	64.5	65.2	64.5
50°	854.5	552.9	220.6	118.9	92.4	72.3	66.6	62.3	61.6	62.3	61.6
52.5°	887.4	558.0	215.6	111.0	88.8	69.5	63.7	59.4	58.0	58.7	58.7
55°	913.9	556.5	208.4	104.6	82.4	66.6	60.2	56.6	54.4	54.4	53.7
57.5°	938.3	557.2	202.0	98.1	75.2	62.3	57.3	53.0	50.1	49.4	48.7
60°	947.6	553.7	190.5	89.5	68.0	58.7	53.7	48.7	45.8	45.1	44.4
62.5°	934.7	540.8	175.5	74.5	61.6	54.4	50.1	45.1	42.3	41.5	40.8
65°	898.2	516.4	152.6	58.7	55.9	49.4	45.8	42.3	38.7	37.2	36.5
67.5°	835.9	481.3	123.9	47.3	49.4	45.1	43.0	38.7	34.4	32.9	32.2
70°	747.1	434.8	93.1	40.1	43.7	40.1	38.7	34.4	30.8	29.4	28.7
72.5°	622.4	359.6	65.2	34.4	38.0	35.1	33.7	30.8	27.2	25.1	25.1
75°	470.6	257.9	43.0	29.4	31.5	30.1	27.9	25.8	23.6	22.2	21.5
77.5°	202.7	100.3	26.5	22.2	25.8	25.1	22.2	20.8	20.1	18.6	18.6
80°	87.4	40.8	16.5	16.5	18.6	17.9	17.2	15.8	15.8	15.0	14.3
82.5°	32.2	16.5	10.0	12.2	13.6	12.2	12.2	12.2	12.2	11.5	11.5
85°	7.9	5.0	5.0	7.2	7.9	7.2	7.9	7.2	7.2	7.2	6.4
87.5°	2.1	2.1	2.9	2.9	2.9	2.9	2.9	2.1	0.0	0.0	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)