

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: P798790

Luminaire Tested: **ARCH1-30-750-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798790
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: ARCH1-30-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3318 lumens
Efficiency: N/A
Efficacy: 100.5 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): 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

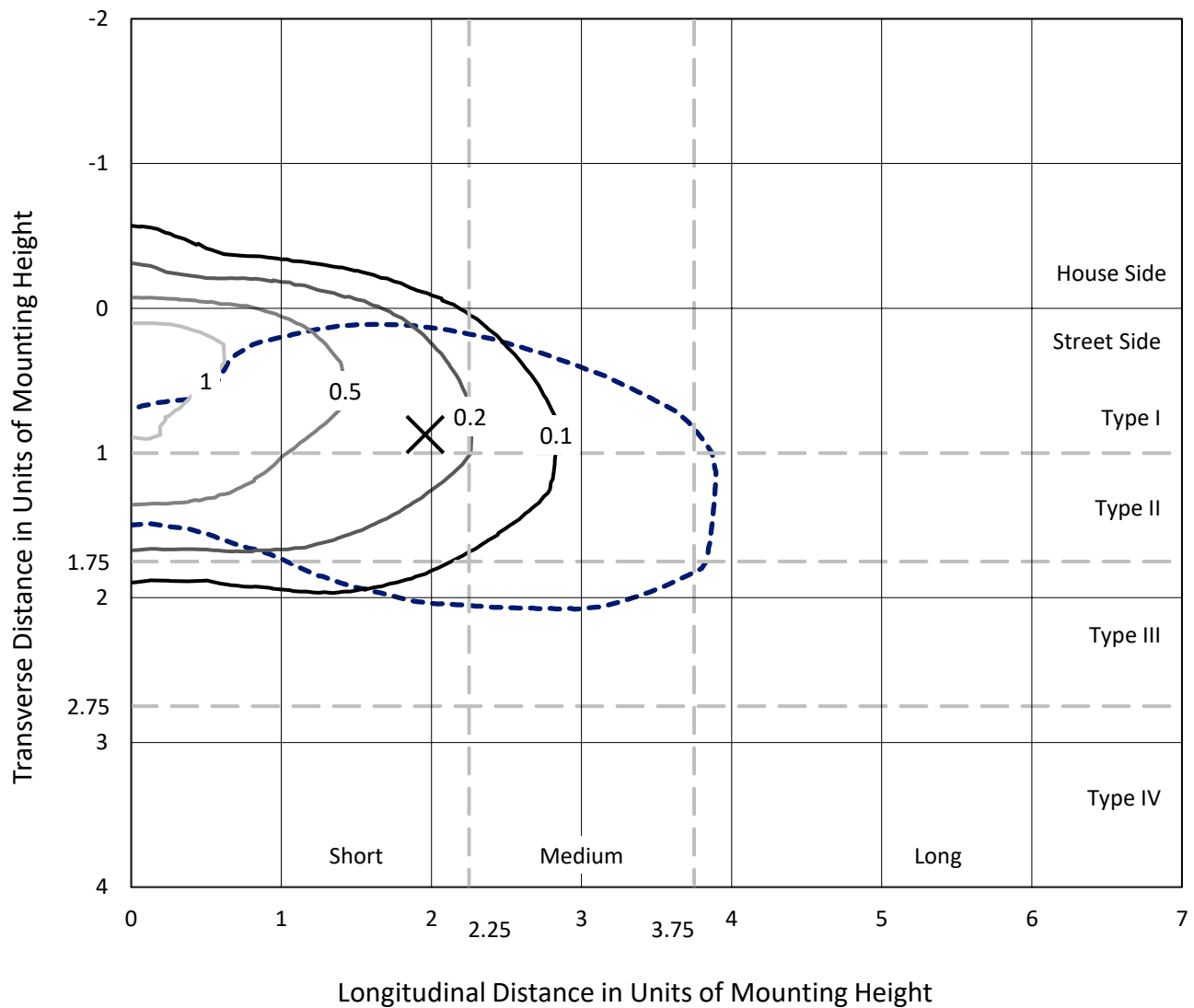


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

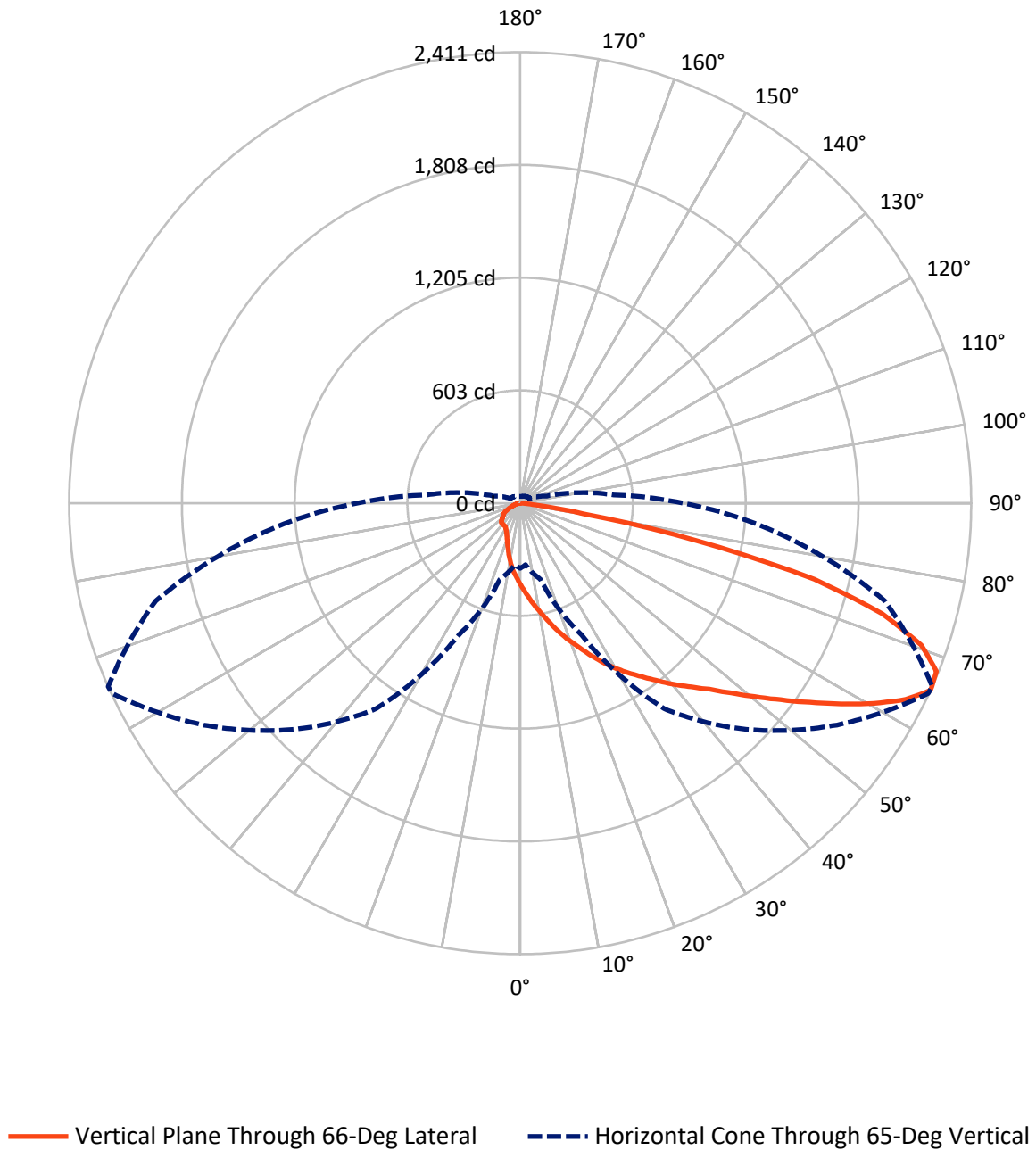


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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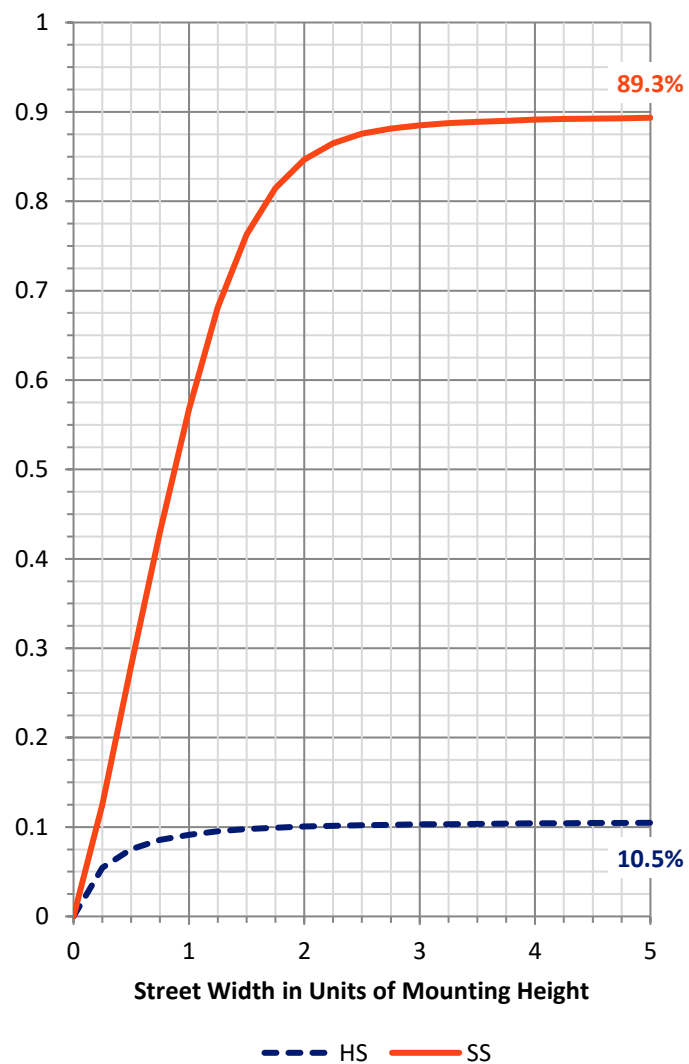
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	351.0	0.0	351.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2967.0	0.0	2967.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	3318.0	0.0	3318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	1.3
10°-20°	141.3	4.3
20°-30°	255.6	7.7
30°-40°	399.7	12.0
40°-50°	606.3	18.3
50°-60°	770.3	23.2
60°-70°	719.8	21.7
70°-80°	357.7	10.8
80°-90°	24.0	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°	3318.0	100.0
0°-180°	3318.0	100.0

Coefficient of Utilization



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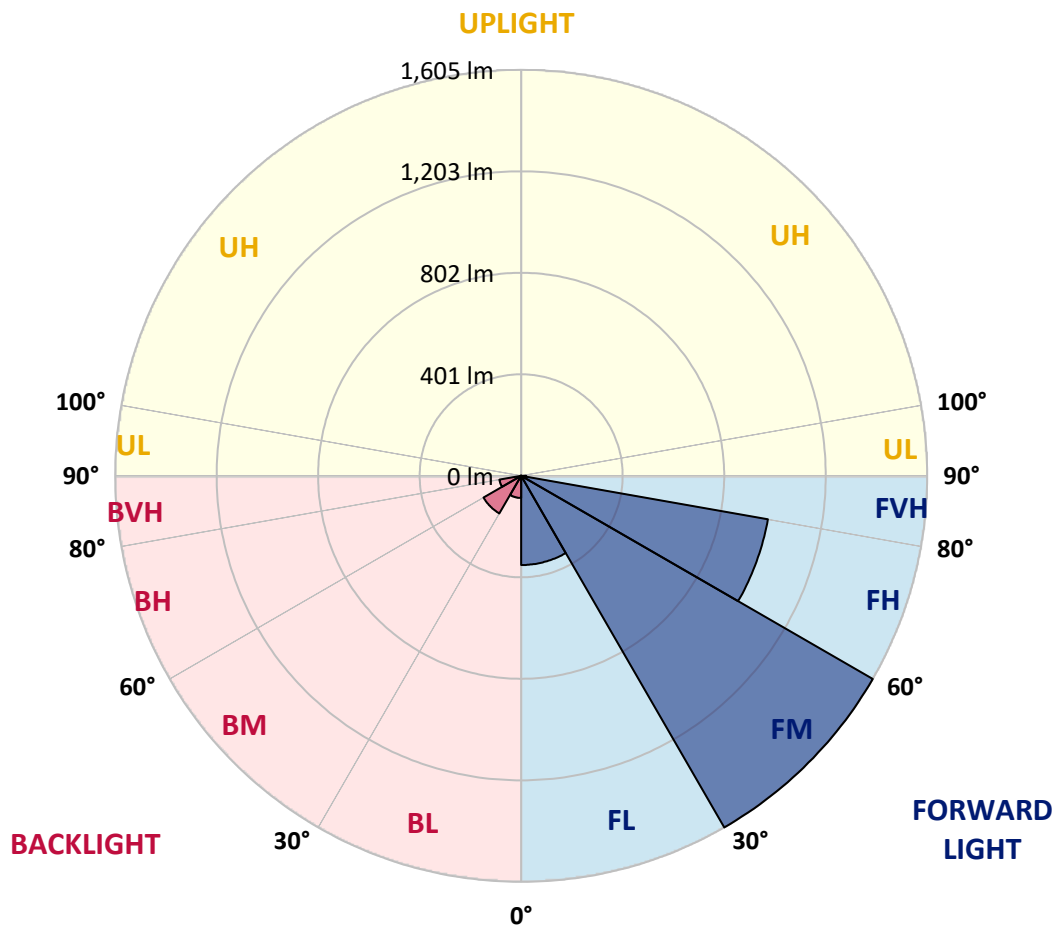
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.5	10.6			
FM	(30°-60°)	1604.6	48.4			
FH	(60°-80°)	990.1	29.8			G1/1800
FVH	(80°-90°)	19.8	0.6			G1/100
BL	(0°-30°)	87.6	2.6	B0/110		
BM	(30°-60°)	171.7	5.2	B0/220		
BH	(60°-80°)	87.4	2.6	B0/110		G0/110
BVH	(80°-90°)	4.3	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°	439.1	439.1	439.1	439.1	439.1	439.1	439.1	439.1	439.1	439.1	439.1
2.5°	512.9	517.1	519.1	519.8	503.8	496.9	489.9	473.9	470.4	461.4	449.6
5°	603.4	608.9	607.5	604.7	585.3	563.0	544.9	515.0	510.1	488.5	462.1
7.5°	692.4	697.3	695.9	685.5	663.9	632.6	602.7	558.8	551.9	517.1	474.6
10°	766.9	771.1	770.4	759.9	734.2	695.9	659.7	601.3	592.9	543.5	485.0
12.5°	828.1	833.7	833.0	826.0	803.1	761.3	720.3	650.0	639.5	575.5	499.7
15°	876.2	883.1	883.1	880.3	864.3	829.5	782.9	703.6	691.0	612.4	517.8
17.5°	905.4	910.9	915.8	920.7	909.6	883.1	840.7	757.1	743.9	648.6	536.5
20°	920.7	926.3	929.7	940.2	942.3	929.0	895.6	810.0	796.1	689.6	558.1
22.5°	945.7	950.6	951.3	960.4	964.5	968.0	947.1	862.2	851.1	734.9	582.5
25°	987.5	993.1	991.0	995.2	995.8	1000.0	997.9	922.1	910.9	786.4	611.7
27.5°	1041.1	1048.0	1046.6	1042.5	1036.2	1032.7	1041.8	982.6	972.2	837.9	641.6
30°	1098.8	1107.2	1105.1	1096.8	1080.1	1065.4	1078.0	1039.7	1029.9	890.8	675.0
32.5°	1157.3	1167.0	1166.3	1152.4	1123.9	1098.8	1117.6	1093.3	1086.3	947.8	711.2
35°	1195.6	1208.1	1206.7	1198.4	1161.5	1139.9	1162.9	1148.3	1143.4	1017.4	763.4
37.5°	1257.5	1270.7	1258.9	1238.0	1195.6	1184.4	1212.3	1210.2	1206.7	1091.2	818.4
40°	1407.8	1427.3	1396.0	1310.4	1240.8	1231.1	1270.7	1279.1	1275.6	1164.3	867.8
42.5°	1565.1	1594.3	1545.6	1427.3	1322.9	1287.4	1334.8	1346.6	1342.4	1226.9	912.3
45°	1660.4	1673.0	1624.3	1532.4	1468.4	1355.6	1403.0	1422.4	1419.0	1302.0	969.4
47.5°	1738.4	1733.5	1677.8	1615.9	1627.7	1451.7	1480.2	1518.5	1515.7	1384.9	1032.0
50°	1755.1	1744.0	1721.7	1682.7	1714.0	1549.1	1561.6	1627.7	1624.9	1476.7	1095.4
52.5°	1637.5	1622.9	1683.4	1716.1	1705.7	1620.1	1651.4	1747.4	1746.0	1576.2	1155.9
55°	1343.8	1332.0	1494.8	1663.9	1696.6	1670.2	1750.9	1872.0	1879.7	1682.0	1210.9
57.5°	1057.1	1044.6	1204.6	1533.1	1663.2	1716.1	1867.1	2014.7	2024.4	1796.8	1263.1
60°	842.7	824.0	946.4	1327.1	1600.6	1751.6	1979.2	2171.2	2172.6	1901.9	1295.1
62.5°	572.7	551.9	687.6	1066.1	1495.5	1757.2	2065.5	2306.2	2311.8	1980.6	1300.7
65°	348.0	330.6	422.4	778.7	1340.3	1709.9	2066.9	2405.8	2410.6	2016.7	1267.3
67.5°	201.8	194.9	241.5	485.0	1082.8	1582.5	1979.9	2390.5	2399.5	2001.4	1191.4
70°	117.6	116.9	134.3	240.1	764.1	1329.9	1785.7	2261.7	2274.9	1921.4	1075.2
72.5°	86.3	87.7	94.6	128.7	442.6	957.6	1512.2	2002.8	2023.0	1764.8	909.6
75°	68.2	68.9	75.2	87.7	232.4	541.4	1132.9	1607.6	1623.6	1485.8	710.5
77.5°	50.8	52.2	57.1	61.9	107.9	248.4	637.5	990.3	963.8	815.6	343.1
80°	36.9	40.4	42.5	44.5	57.1	96.0	191.4	345.2	342.4	356.3	162.1
82.5°	23.7	26.4	28.5	29.9	34.1	45.9	57.1	77.2	83.5	138.5	64.7
85°	10.4	11.8	13.2	16.0	14.6	16.0	23.7	15.3	13.2	20.9	11.8
87.5°	0.0	0.0	2.1	3.5	2.8	1.4	4.2	2.8	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°	439.1	439.1	439.1	439.1	439.1	439.1	439.1	439.1	439.1	439.1	439.1
2.5°	443.3	435.6	419.6	404.3	395.3	383.4	373.0	363.3	362.6	359.8	354.9
5°	448.9	434.2	404.3	375.8	354.2	331.3	311.8	296.5	290.9	286.7	281.1
7.5°	454.4	431.5	386.9	345.2	311.1	279.1	256.1	235.2	229.0	223.4	219.9
10°	456.5	426.6	366.7	311.1	266.5	232.4	208.1	192.8	187.2	184.4	182.3
12.5°	462.8	423.8	348.0	279.1	227.6	196.2	178.8	169.8	167.7	165.6	163.5
15°	471.1	423.8	329.2	247.7	196.9	171.9	161.5	155.2	153.8	153.1	151.7
17.5°	480.2	423.8	311.1	221.3	174.7	155.9	148.2	144.7	144.1	143.4	142.7
20°	492.7	424.5	291.6	198.3	158.7	144.1	137.8	133.6	132.9	132.2	132.2
22.5°	505.2	425.9	272.8	180.9	148.2	135.0	127.4	123.2	121.8	121.8	121.8
25°	521.2	430.1	255.4	166.3	139.2	126.7	116.9	113.4	112.7	112.7	112.0
27.5°	540.0	434.9	240.1	155.2	130.1	116.9	107.2	103.7	102.3	102.3	101.6
30°	560.2	439.8	227.6	146.8	121.1	107.2	98.1	93.9	92.6	93.3	92.6
32.5°	582.5	446.8	217.8	141.3	112.7	98.8	90.5	85.6	84.9	84.9	84.2
35°	620.1	466.3	216.4	138.5	105.8	92.6	84.2	79.3	78.6	78.6	77.9
37.5°	660.4	488.5	222.7	137.1	100.2	87.0	79.3	74.5	73.8	73.8	73.8
40°	694.5	505.2	229.7	137.1	96.7	82.1	75.2	71.0	71.0	71.0	71.0
42.5°	717.5	506.6	228.3	137.1	93.9	78.6	72.4	68.2	68.2	68.9	68.2
45°	751.6	513.6	222.7	135.0	91.9	75.9	69.6	66.1	65.4	66.1	66.1
47.5°	791.9	526.1	217.1	126.7	91.2	73.1	67.5	63.3	62.6	63.3	62.6
50°	830.2	537.2	214.3	115.5	89.8	70.3	64.7	60.5	59.8	60.5	59.8
52.5°	862.2	542.1	209.5	107.9	86.3	67.5	61.9	57.8	56.4	57.1	57.1
55°	888.0	540.7	202.5	101.6	80.0	64.7	58.5	55.0	52.9	52.9	52.2
57.5°	911.6	541.4	196.2	95.3	73.1	60.5	55.7	51.5	48.7	48.0	47.3
60°	920.7	537.9	185.1	87.0	66.1	57.1	52.2	47.3	44.5	43.8	43.1
62.5°	908.2	525.4	170.5	72.4	59.8	52.9	48.7	43.8	41.1	40.4	39.7
65°	872.7	501.8	148.2	57.1	54.3	48.0	44.5	41.1	37.6	36.2	35.5
67.5°	812.1	467.7	120.4	45.9	48.0	43.8	41.8	37.6	33.4	32.0	31.3
70°	725.8	422.4	90.5	39.0	42.5	39.0	37.6	33.4	29.9	28.5	27.8
72.5°	604.7	349.3	63.3	33.4	36.9	34.1	32.7	29.9	26.4	24.4	24.4
75°	457.2	250.5	41.8	28.5	30.6	29.2	27.1	25.1	23.0	21.6	20.9
77.5°	196.9	97.4	25.7	21.6	25.1	24.4	21.6	20.2	19.5	18.1	18.1
80°	84.9	39.7	16.0	16.0	18.1	17.4	16.7	15.3	15.3	14.6	13.9
82.5°	31.3	16.0	9.7	11.8	13.2	11.8	11.8	11.8	11.8	11.1	11.1
85°	7.7	4.9	4.9	7.0	7.7	7.0	7.7	7.0	7.0	7.0	6.3
87.5°	2.1	2.1	2.8	2.8	2.8	2.8	2.8	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)