

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: P798710

Luminaire Tested: **ARCH1-30-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798710
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: ARCH1-30-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 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: 2765 lumens
Efficiency: N/A
Efficacy: 83.8 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

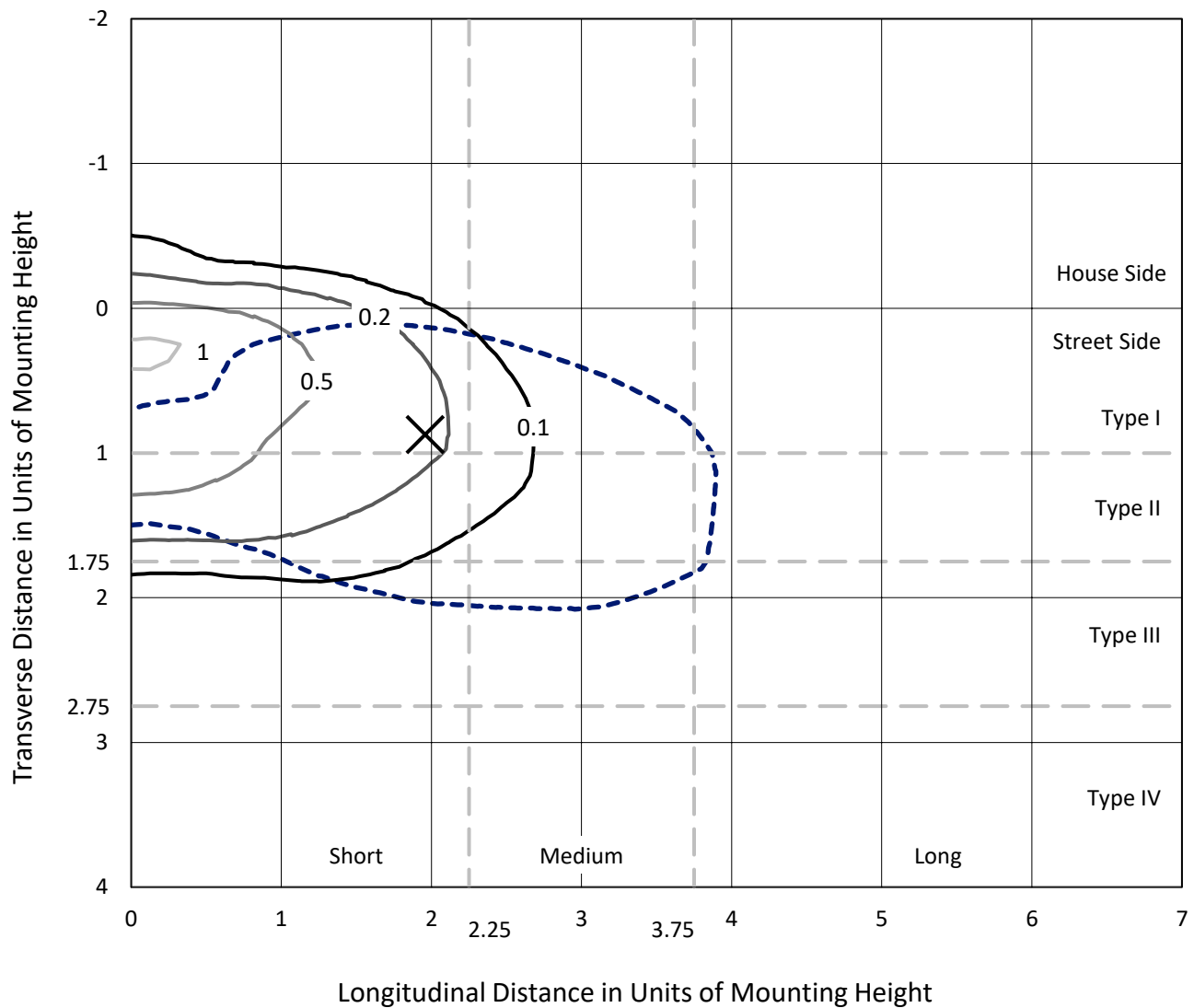


REPORT NUMBER: P798710

CATALOG NUMBER: ARCH1-30-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

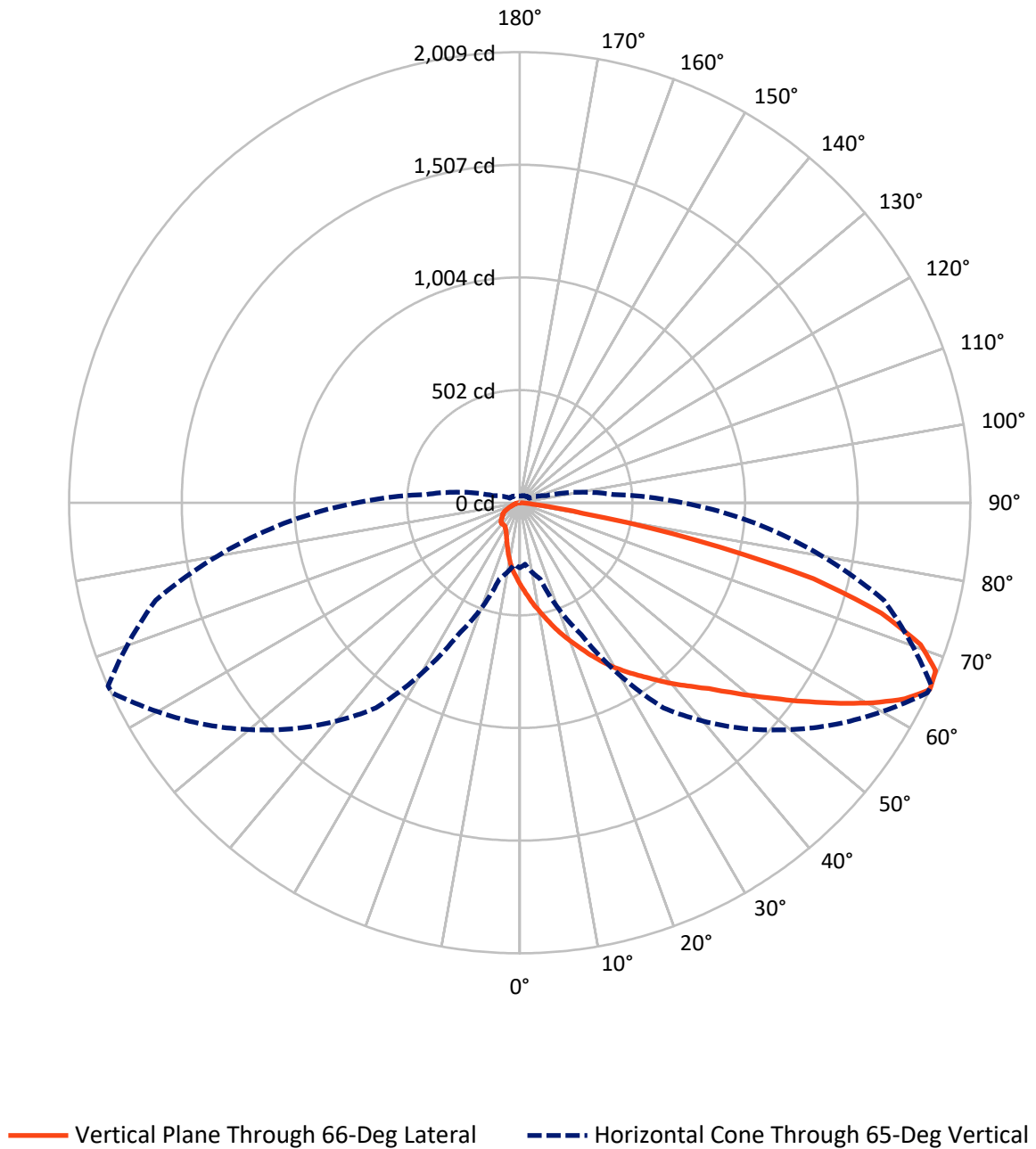


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

REPORT NUMBER: P798710

CATALOG NUMBER: ARCH1-30-722-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P798710

CATALOG NUMBER: ARCH1-30-722-U-T3-HSS

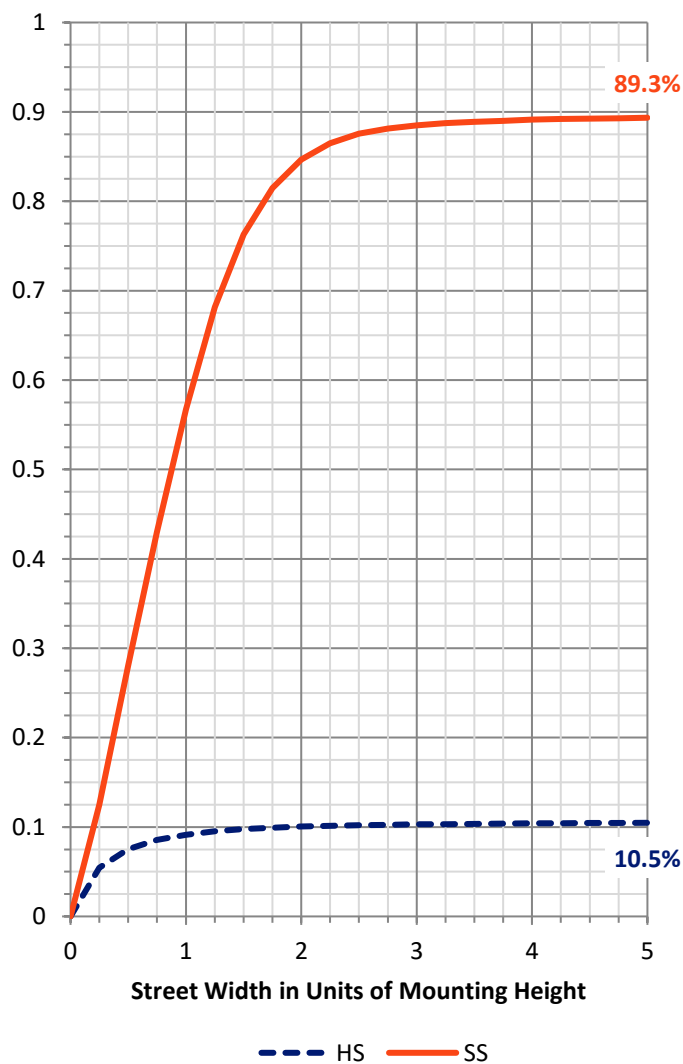
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	292.5	0.0	292.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2472.5	0.0	2472.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	2765.0	0.0	2765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	1.3
10°-20°	117.7	4.3
20°-30°	213.0	7.7
30°-40°	333.1	12.0
40°-50°	505.2	18.3
50°-60°	641.9	23.2
60°-70°	599.8	21.7
70°-80°	298.1	10.8
80°-90°	20.0	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°	2765.0	100.0
0°-180°	2765.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798710

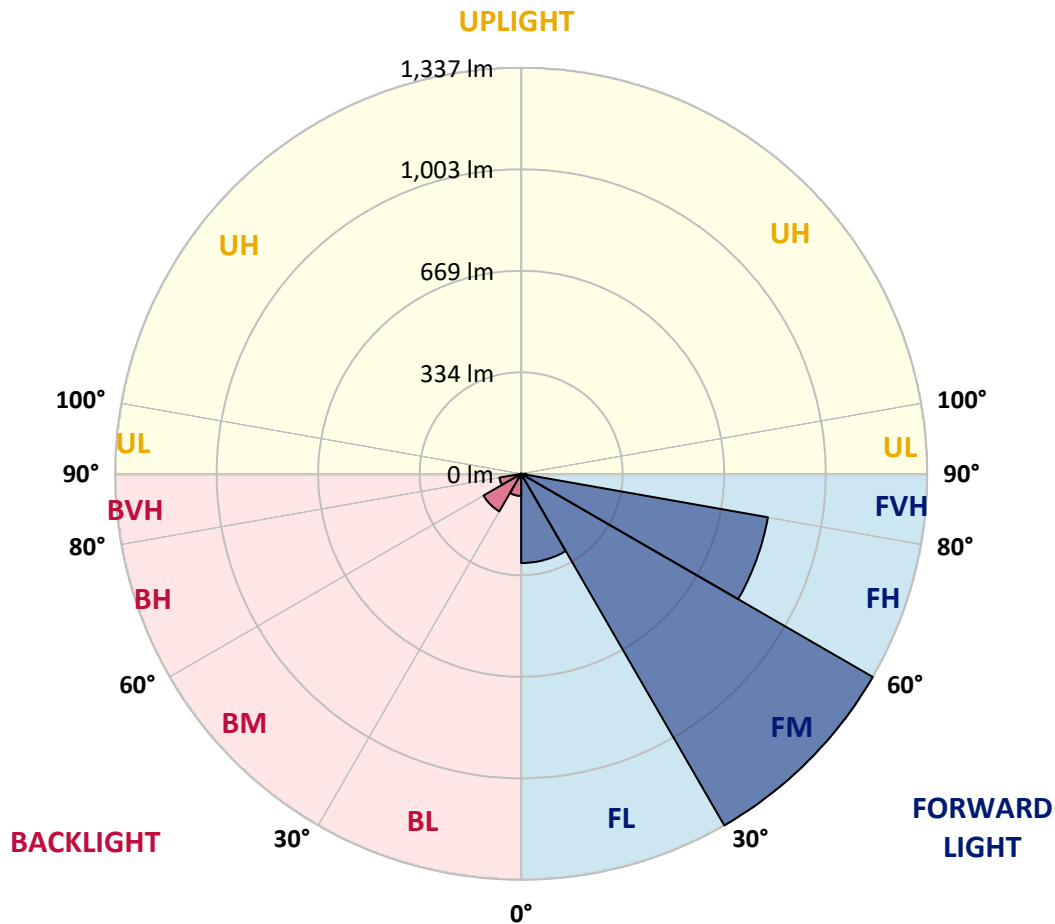
CATALOG NUMBER: ARCH1-30-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.8	10.6			
FM	(30°-60°)	1337.2	48.4			
FH	(60°-80°)	825.1	29.8			G1/1800
FVH	(80°-90°)	16.5	0.6			G1/100
BL	(0°-30°)	73.0	2.6	B0/110		
BM	(30°-60°)	143.0	5.2	B0/220		
BH	(60°-80°)	72.8	2.6	B0/110		G0/110
BVH	(80°-90°)	3.5	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



REPORT NUMBER: P798710

CATALOG NUMBER: ARCH1-30-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9
2.5°	427.4	430.9	432.6	433.2	419.9	414.1	408.3	394.9	392.0	384.5	374.6
5°	502.8	507.4	506.3	504.0	487.7	469.2	454.1	429.1	425.1	407.1	385.1
7.5°	577.0	581.1	579.9	571.2	553.2	527.2	502.2	465.7	459.9	430.9	395.5
10°	639.1	642.6	642.0	633.3	611.8	579.9	549.8	501.1	494.1	452.9	404.2
12.5°	690.1	694.7	694.2	688.4	669.2	634.4	600.2	541.6	533.0	479.6	416.4
15°	730.1	735.9	735.9	733.6	720.3	691.3	652.4	586.3	575.9	510.3	431.5
17.5°	754.5	759.1	763.2	767.2	758.0	735.9	700.5	631.0	619.9	540.5	447.1
20°	767.2	771.9	774.8	783.5	785.2	774.2	746.4	675.0	663.4	574.7	465.1
22.5°	788.1	792.2	792.8	800.3	803.8	806.7	789.3	718.5	709.2	612.4	485.4
25°	822.9	827.6	825.8	829.3	829.9	833.4	831.6	768.4	759.1	655.3	509.8
27.5°	867.6	873.4	872.2	868.7	863.5	860.6	868.1	818.9	810.2	698.2	534.7
30°	915.7	922.7	920.9	914.0	900.0	887.9	898.3	866.4	858.3	742.3	562.5
32.5°	964.4	972.5	972.0	960.4	936.6	915.7	931.4	911.1	905.3	789.9	592.7
35°	996.3	1006.7	1005.6	998.6	967.9	949.9	969.1	956.9	952.8	847.9	636.2
37.5°	1047.9	1058.9	1049.1	1031.7	996.3	987.0	1010.2	1008.5	1005.6	909.3	682.0
40°	1173.2	1189.4	1163.3	1092.0	1034.0	1025.9	1058.9	1065.9	1063.0	970.2	723.2
42.5°	1304.3	1328.6	1288.0	1189.4	1102.4	1072.9	1112.3	1122.2	1118.7	1022.4	760.3
45°	1383.7	1394.1	1353.5	1277.0	1223.6	1129.7	1169.1	1185.4	1182.5	1085.0	807.8
47.5°	1448.7	1444.6	1398.2	1346.6	1356.4	1209.7	1233.5	1265.4	1263.1	1154.1	860.0
50°	1462.6	1453.3	1434.7	1402.3	1428.4	1290.9	1301.4	1356.4	1354.1	1230.6	912.8
52.5°	1364.6	1352.4	1402.8	1430.1	1421.4	1350.1	1376.2	1456.2	1455.0	1313.5	963.3
55°	1119.8	1110.0	1245.7	1386.6	1413.9	1391.8	1459.1	1560.0	1566.4	1401.7	1009.1
57.5°	880.9	870.5	1003.8	1277.6	1386.0	1430.1	1555.9	1678.9	1687.0	1497.4	1052.6
60°	702.3	686.6	788.7	1105.9	1333.8	1459.7	1649.3	1809.4	1810.5	1584.9	1079.2
62.5°	477.3	459.9	573.0	888.4	1246.3	1464.3	1721.2	1921.9	1926.5	1650.5	1083.9
65°	290.0	275.5	352.0	648.9	1116.9	1424.9	1722.4	2004.8	2008.9	1680.6	1056.0
67.5°	168.2	162.4	201.2	404.2	902.4	1318.7	1649.9	1992.0	1999.6	1667.9	992.8
70°	98.0	97.4	111.9	200.1	636.8	1108.2	1488.1	1884.8	1895.8	1601.2	896.0
72.5°	71.9	73.1	78.9	107.3	368.8	798.0	1260.2	1669.0	1685.8	1470.7	758.0
75°	56.8	57.4	62.6	73.1	193.7	451.2	944.1	1339.6	1353.0	1238.1	592.1
77.5°	42.3	43.5	47.6	51.6	89.9	207.0	531.2	825.2	803.2	679.7	285.9
80°	30.7	33.6	35.4	37.1	47.6	80.0	159.5	287.6	285.3	296.9	135.1
82.5°	19.7	22.0	23.8	24.9	28.4	38.3	47.6	64.4	69.6	115.4	53.9
85°	8.7	9.9	11.0	13.3	12.2	13.3	19.7	12.8	11.0	17.4	9.9
87.5°	0.0	0.0	1.7	2.9	2.3	1.2	3.5	2.3	1.7	1.7	1.7
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: P798710

CATALOG NUMBER: ARCH1-30-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9	365.9
2.5°	369.4	363.0	349.7	336.9	329.4	319.5	310.8	302.7	302.1	299.8	295.8
5°	374.1	361.9	336.9	313.2	295.2	276.0	259.8	247.0	242.4	238.9	234.3
7.5°	378.7	359.6	322.4	287.6	259.2	232.5	213.4	196.0	190.8	186.2	183.3
10°	380.4	355.5	305.6	259.2	222.1	193.7	173.4	160.6	156.0	153.7	151.9
12.5°	385.7	353.2	290.0	232.5	189.6	163.5	149.0	141.5	139.8	138.0	136.3
15°	392.6	353.2	274.3	206.5	164.1	143.2	134.5	129.3	128.2	127.6	126.4
17.5°	400.1	353.2	259.2	184.4	145.6	129.9	123.5	120.6	120.0	119.5	118.9
20°	410.6	353.8	243.0	165.3	132.2	120.0	114.8	111.3	110.8	110.2	110.2
22.5°	421.0	354.9	227.3	150.8	123.5	112.5	106.1	102.6	101.5	101.5	101.5
25°	434.4	358.4	212.8	138.6	116.0	105.5	97.4	94.5	93.9	93.9	93.4
27.5°	450.0	362.5	200.1	129.3	108.4	97.4	89.3	86.4	85.2	85.2	84.7
30°	466.8	366.5	189.6	122.4	100.9	89.3	81.8	78.3	77.1	77.7	77.1
32.5°	485.4	372.3	181.5	117.7	93.9	82.3	75.4	71.3	70.8	70.8	70.2
35°	516.7	388.5	180.4	115.4	88.1	77.1	70.2	66.1	65.5	65.5	65.0
37.5°	550.3	407.1	185.6	114.2	83.5	72.5	66.1	62.1	61.5	61.5	61.5
40°	578.8	421.0	191.4	114.2	80.6	68.4	62.6	59.2	59.2	59.2	59.2
42.5°	597.9	422.2	190.2	114.2	78.3	65.5	60.3	56.8	56.8	57.4	56.8
45°	626.3	428.0	185.6	112.5	76.6	63.2	58.0	55.1	54.5	55.1	55.1
47.5°	660.0	438.4	180.9	105.5	76.0	60.9	56.3	52.8	52.2	52.8	52.2
50°	691.9	447.7	178.6	96.3	74.8	58.6	53.9	50.5	49.9	50.5	49.9
52.5°	718.5	451.8	174.6	89.9	71.9	56.3	51.6	48.1	47.0	47.6	47.6
55°	740.0	450.6	168.8	84.7	66.7	53.9	48.7	45.8	44.1	44.1	43.5
57.5°	759.7	451.2	163.5	79.4	60.9	50.5	46.4	42.9	40.6	40.0	39.4
60°	767.2	448.3	154.3	72.5	55.1	47.6	43.5	39.4	37.1	36.5	36.0
62.5°	756.8	437.8	142.1	60.3	49.9	44.1	40.6	36.5	34.2	33.6	33.1
65°	727.2	418.1	123.5	47.6	45.2	40.0	37.1	34.2	31.3	30.2	29.6
67.5°	676.8	389.7	100.3	38.3	40.0	36.5	34.8	31.3	27.8	26.7	26.1
70°	604.9	352.0	75.4	32.5	35.4	32.5	31.3	27.8	24.9	23.8	23.2
72.5°	504.0	291.1	52.8	27.8	30.7	28.4	27.3	24.9	22.0	20.3	20.3
75°	381.0	208.8	34.8	23.8	25.5	24.4	22.6	20.9	19.1	18.0	17.4
77.5°	164.1	81.2	21.5	18.0	20.9	20.3	18.0	16.8	16.2	15.1	15.1
80°	70.8	33.1	13.3	13.3	15.1	14.5	13.9	12.8	12.8	12.2	11.6
82.5°	26.1	13.3	8.1	9.9	11.0	9.9	9.9	9.9	9.9	9.3	9.3
85°	6.4	4.1	4.1	5.8	6.4	5.8	6.4	5.8	5.8	5.8	5.2
87.5°	1.7	1.7	2.3	2.3	2.3	2.3	2.3	1.7	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)