

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: P798708

Luminaire Tested: **ARCH1-30-722-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2661 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - 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

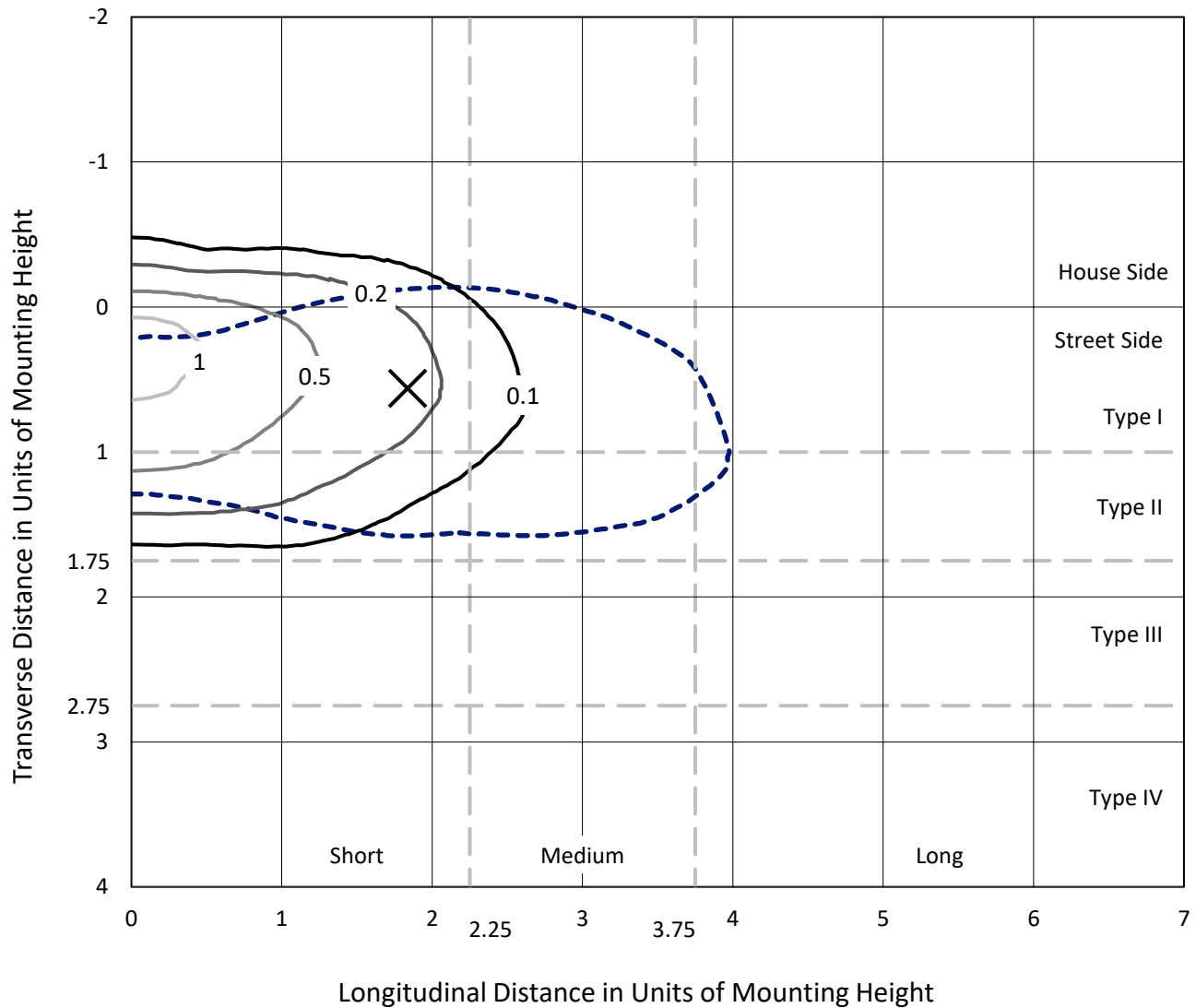


REPORT NUMBER: P798708

CATALOG NUMBER: ARCH1-30-722-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

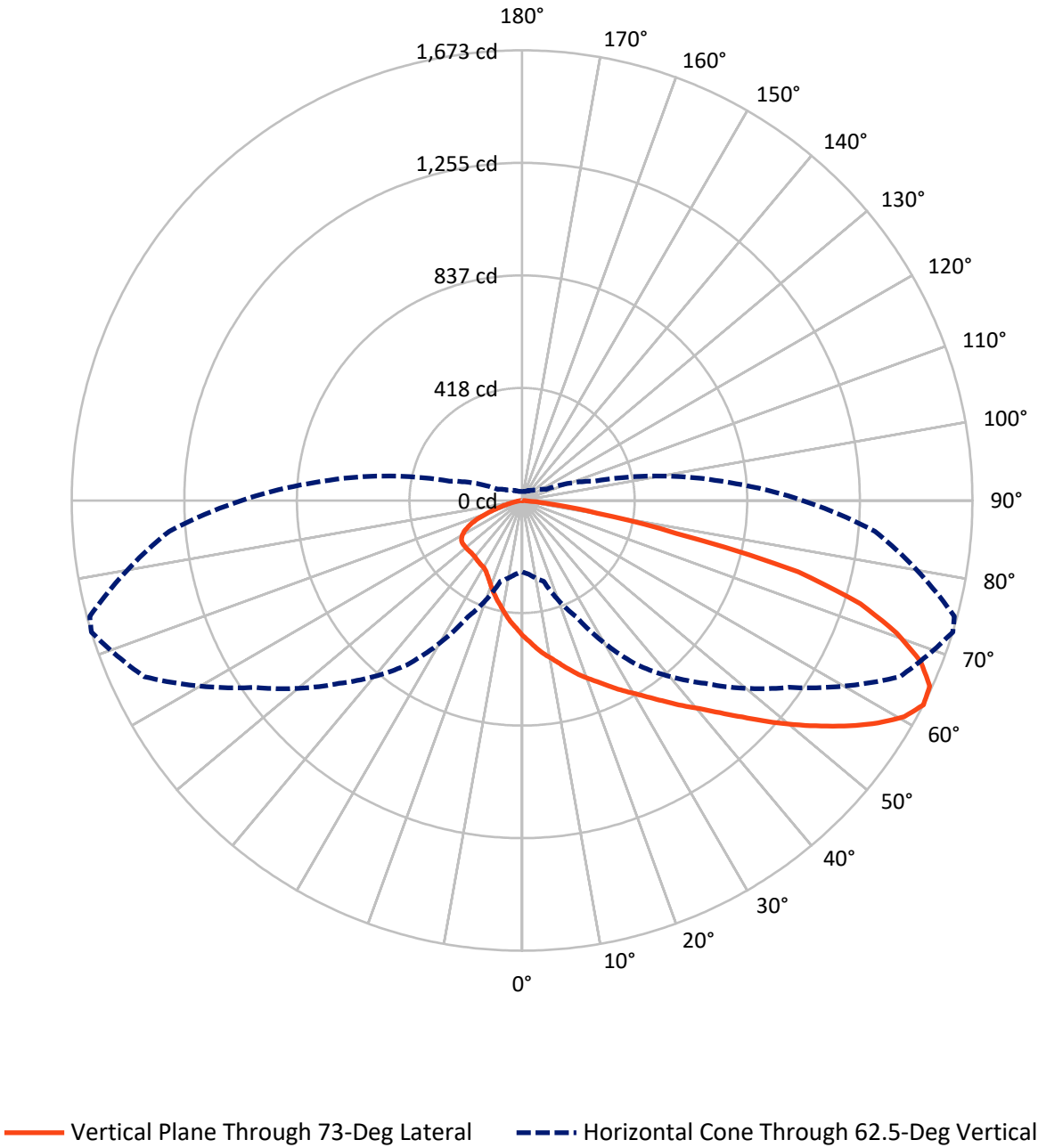
✕ Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P798708
CATALOG NUMBER: ARCH1-30-722-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P798708

CATALOG NUMBER: ARCH1-30-722-U-T2U-HSS

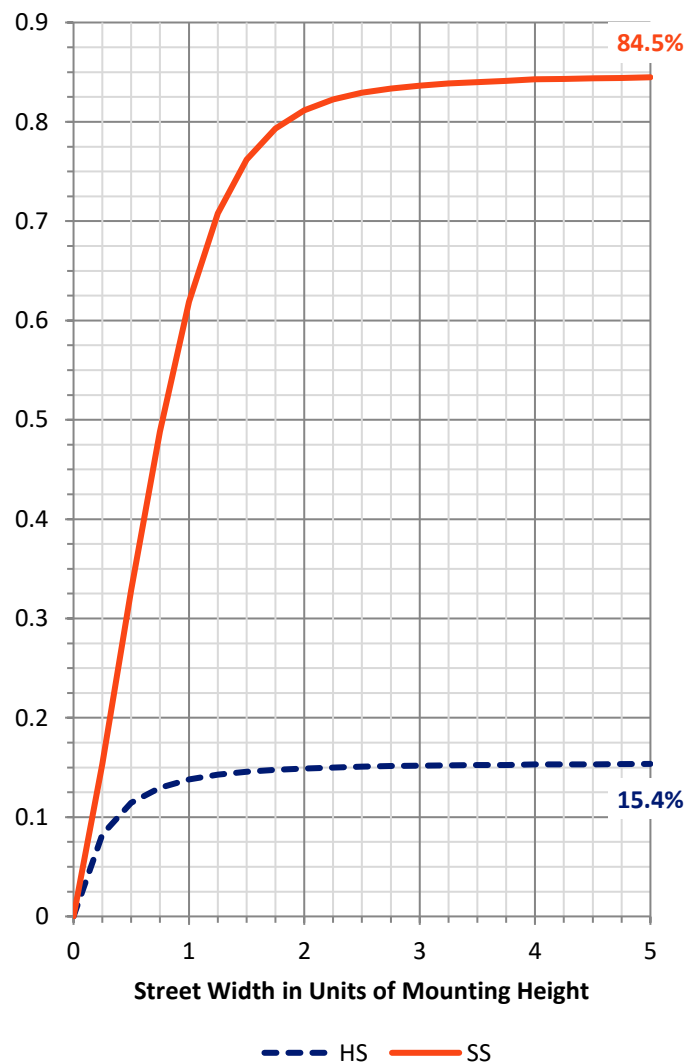
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	412.5	0.0	412.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2248.5	0.0	2248.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	2661.0	0.0	2661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.8
10°-20°	146.9	5.5
20°-30°	244.5	9.2
30°-40°	368.9	13.9
40°-50°	515.6	19.4
50°-60°	569.5	21.4
60°-70°	496.1	18.6
70°-80°	250.6	9.4
80°-90°	20.1	0.8
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°	2661.0	100.0
0°-180°	2661.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798708

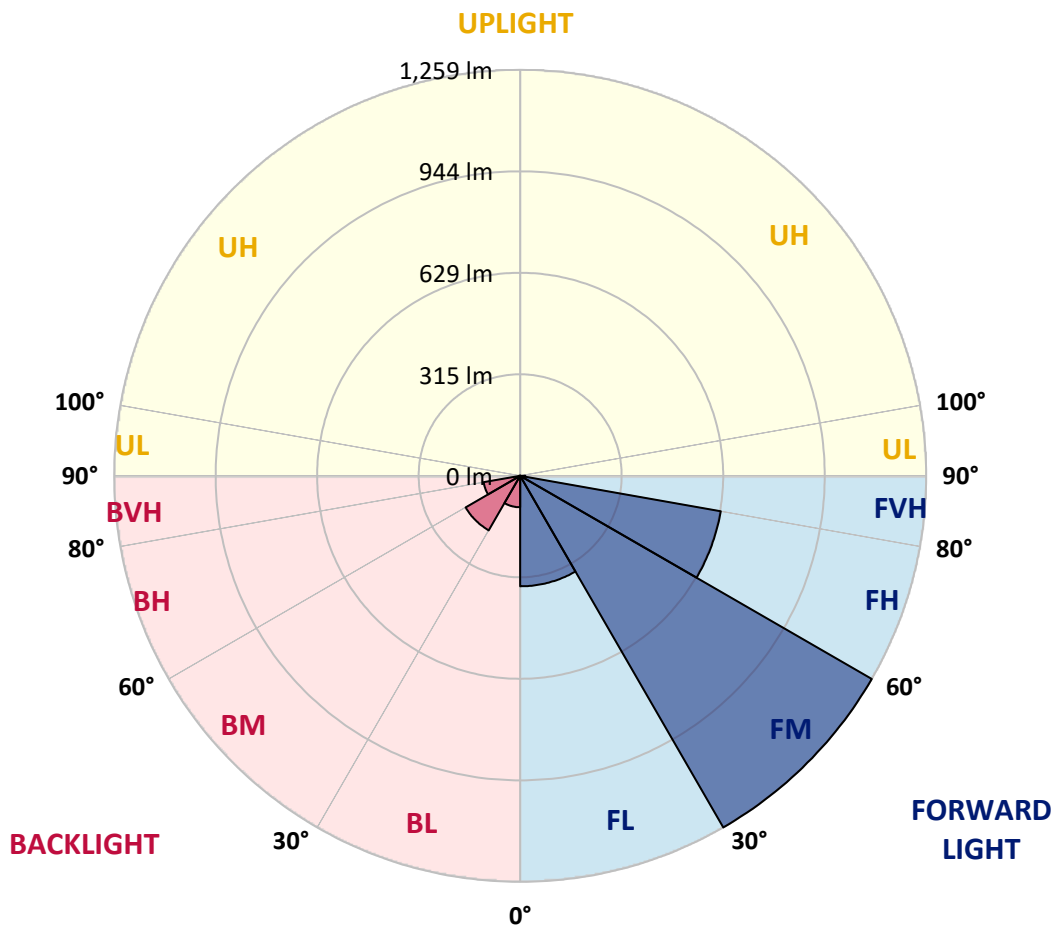
CATALOG NUMBER: ARCH1-30-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	342.6	12.9			
FM	(30°-60°)	1258.8	47.3			
FH	(60°-80°)	631.6	23.7			G0/660
FVH	(80°-90°)	15.6	0.6			G1/100
BL	(0°-30°)	97.5	3.7	B0/110		
BM	(30°-60°)	195.3	7.3	B0/220		
BH	(60°-80°)	115.1	4.3	B1/500		G1/500
BVH	(80°-90°)	4.5	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P798708

CATALOG NUMBER: ARCH1-30-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	573.4	579.8	576.3	578.7	567.1	559.5	550.8	534.0	524.7	523.6	512.6
5°	657.5	664.5	658.7	656.9	636.6	619.3	599.5	570.0	550.3	546.8	522.4
7.5°	741.6	748.0	741.0	735.8	708.5	677.8	648.8	605.3	574.6	568.8	530.5
10°	800.7	806.5	801.3	796.1	767.7	736.4	695.2	638.4	596.6	587.4	535.8
12.5°	845.4	848.9	846.5	841.9	815.2	781.6	742.2	675.5	621.6	610.0	543.9
15°	881.9	887.7	884.8	881.3	855.8	822.2	784.5	714.3	650.6	636.1	556.1
17.5°	906.3	910.3	910.9	910.9	888.3	855.2	818.7	749.7	679.6	661.0	567.6
20°	917.3	921.9	924.8	929.5	910.9	882.5	845.4	779.9	706.8	685.9	578.7
22.5°	922.5	926.6	934.1	944.5	929.5	905.7	871.5	807.7	734.1	712.0	591.4
25°	926.6	931.8	942.8	962.5	952.1	931.8	902.2	839.6	766.5	743.9	610.0
27.5°	937.6	944.0	954.4	978.2	965.4	955.5	934.7	873.8	800.7	777.5	632.6
30°	975.8	981.1	980.5	995.6	979.9	977.0	962.5	906.8	833.8	810.6	659.3
32.5°	1045.4	1050.6	1037.9	1032.1	997.9	998.5	992.7	942.2	873.2	849.4	690.0
35°	1120.2	1126.0	1109.2	1099.3	1041.9	1025.1	1028.0	986.3	917.3	893.5	728.3
37.5°	1186.9	1193.9	1179.4	1164.9	1106.9	1068.0	1067.5	1035.6	967.7	943.4	770.6
40°	1223.4	1231.5	1240.2	1232.1	1171.2	1128.3	1109.8	1086.0	1017.6	992.7	816.4
42.5°	1240.8	1263.4	1279.1	1273.9	1224.0	1180.5	1158.5	1138.8	1078.5	1054.1	870.9
45°	1192.1	1192.7	1225.7	1254.2	1244.9	1215.9	1211.8	1197.9	1148.0	1124.9	932.4
47.5°	1131.2	1126.6	1149.8	1200.2	1226.3	1233.9	1257.6	1263.4	1227.5	1204.3	995.0
50°	985.1	988.0	1063.4	1135.9	1186.9	1235.6	1290.1	1330.7	1309.2	1287.2	1061.1
52.5°	801.3	808.3	894.7	1054.1	1134.7	1218.2	1309.2	1398.0	1392.7	1371.9	1127.2
55°	642.4	653.5	745.1	917.9	1068.0	1179.4	1317.4	1459.4	1479.1	1460.0	1192.1
57.5°	491.1	502.7	579.8	757.2	982.8	1116.2	1311.6	1513.3	1559.7	1547.5	1251.8
60°	369.9	381.5	430.8	614.0	876.1	1045.4	1282.6	1548.7	1632.2	1619.4	1295.3
62.5°	265.0	274.3	310.8	477.8	746.2	961.3	1211.2	1549.3	1673.4	1662.9	1316.2
65°	190.8	190.8	220.3	340.9	624.5	860.5	1103.4	1478.0	1664.7	1661.8	1301.7
67.5°	137.4	138.6	162.4	238.3	498.1	738.1	963.7	1351.0	1597.4	1611.9	1249.5
70°	97.4	100.3	111.3	166.4	376.3	582.7	814.1	1184.6	1476.2	1501.7	1148.6
72.5°	75.4	77.1	84.7	116.0	274.8	433.1	648.8	999.0	1314.5	1343.4	1011.2
75°	58.0	59.7	65.5	85.2	197.1	303.8	461.0	775.2	1059.9	1111.5	812.3
77.5°	42.3	44.6	48.7	62.0	114.8	193.1	279.5	436.0	585.0	609.4	425.6
80°	19.7	22.6	28.4	40.0	62.0	91.0	99.1	168.1	281.2	294.0	230.8
82.5°	11.0	13.9	16.2	24.4	31.3	32.5	33.6	42.3	106.1	117.1	96.8
85°	5.2	7.0	7.5	10.4	10.4	9.3	11.0	8.1	17.4	20.9	20.3
87.5°	0.0	0.6	1.2	2.9	2.3	1.7	1.7	1.7	1.7	2.3	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: P798708

CATALOG NUMBER: ARCH1-30-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	507.3	499.8	482.4	467.3	457.5	448.8	437.2	432.0	422.7	424.4	419.2
5°	510.2	496.3	465.6	437.2	416.3	397.8	377.5	365.9	353.1	352.0	347.9
7.5°	512.0	490.5	446.5	406.5	374.6	346.2	318.9	303.8	288.2	284.7	281.2
10°	510.2	481.8	426.7	374.6	332.2	296.9	266.1	247.0	230.8	226.7	223.2
12.5°	512.0	477.2	408.2	345.0	294.5	254.5	219.8	200.0	185.0	180.9	178.6
15°	516.0	474.3	392.5	318.3	260.9	216.3	182.1	165.2	153.1	149.0	147.9
17.5°	519.5	471.4	375.7	292.2	227.3	182.6	153.1	139.2	128.7	124.7	123.5
20°	524.2	467.3	358.9	267.3	197.7	156.0	129.9	117.7	109.6	106.7	106.1
22.5°	528.2	464.4	343.3	242.4	170.5	134.5	112.5	102.6	96.8	93.9	93.9
25°	538.7	465.6	329.9	219.2	150.2	117.7	99.1	91.6	87.0	85.2	85.2
27.5°	550.8	470.2	319.5	199.5	132.8	104.9	89.9	83.5	81.2	78.9	79.4
30°	568.2	479.5	312.5	183.2	120.0	95.1	82.3	77.7	75.4	74.8	74.8
32.5°	590.3	494.6	311.9	172.8	110.7	87.6	77.1	73.1	71.9	71.3	71.3
35°	616.4	507.9	308.5	168.1	104.9	82.3	73.1	70.2	69.6	69.6	69.6
37.5°	647.7	530.0	306.1	161.8	102.0	79.4	70.2	67.8	67.8	67.8	67.8
40°	680.1	547.9	302.7	156.0	100.9	77.7	68.4	65.5	65.5	65.5	65.5
42.5°	719.0	574.0	301.5	153.1	99.1	76.5	66.1	62.6	63.2	63.2	63.8
45°	765.9	603.6	300.9	150.2	98.6	75.4	63.8	59.7	60.3	59.7	59.7
47.5°	813.5	637.8	302.7	148.4	98.0	74.2	62.0	56.8	56.8	56.2	56.2
50°	863.4	669.1	303.8	146.7	96.8	71.9	59.1	54.5	53.3	52.2	52.8
52.5°	910.3	698.1	304.4	143.8	93.4	68.4	56.8	51.6	49.9	48.1	48.7
55°	957.3	725.9	305.6	140.3	88.7	64.9	53.9	48.7	46.4	44.1	44.1
57.5°	999.6	750.3	302.7	131.6	83.5	61.5	51.0	45.2	41.7	39.4	39.4
60°	1028.6	767.7	294.0	118.9	76.5	57.4	48.1	41.7	37.7	35.9	35.9
62.5°	1042.5	770.6	278.3	98.0	67.8	53.3	44.6	38.3	34.8	33.6	33.6
65°	1029.2	757.8	254.0	73.6	58.6	48.7	41.2	35.4	31.9	29.0	29.0
67.5°	982.8	721.9	220.3	55.7	49.9	44.1	37.7	32.5	28.4	26.1	26.1
70°	889.4	647.1	170.5	44.6	42.3	38.3	34.2	29.0	25.5	22.6	22.6
72.5°	767.1	548.5	120.0	35.9	35.9	32.5	29.0	25.5	22.0	19.7	19.7
75°	588.5	405.9	80.6	29.0	29.6	27.3	23.8	20.9	18.6	16.8	16.8
77.5°	321.2	200.6	49.3	21.5	22.0	20.9	18.6	16.8	15.7	13.9	13.9
80°	156.0	88.1	28.4	15.1	15.7	15.1	13.9	12.2	12.2	11.0	11.0
82.5°	65.5	33.0	15.1	10.4	10.4	9.3	8.7	8.7	8.7	8.1	8.1
85°	16.2	6.4	6.4	5.8	5.8	5.8	5.2	5.2	5.2	4.1	4.6
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.7	0.6	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)