

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: P798584

Luminaire Tested: **ARCH1-20-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2091 lumens
Efficiency: N/A
Efficacy: 89.0 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): 23.5
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

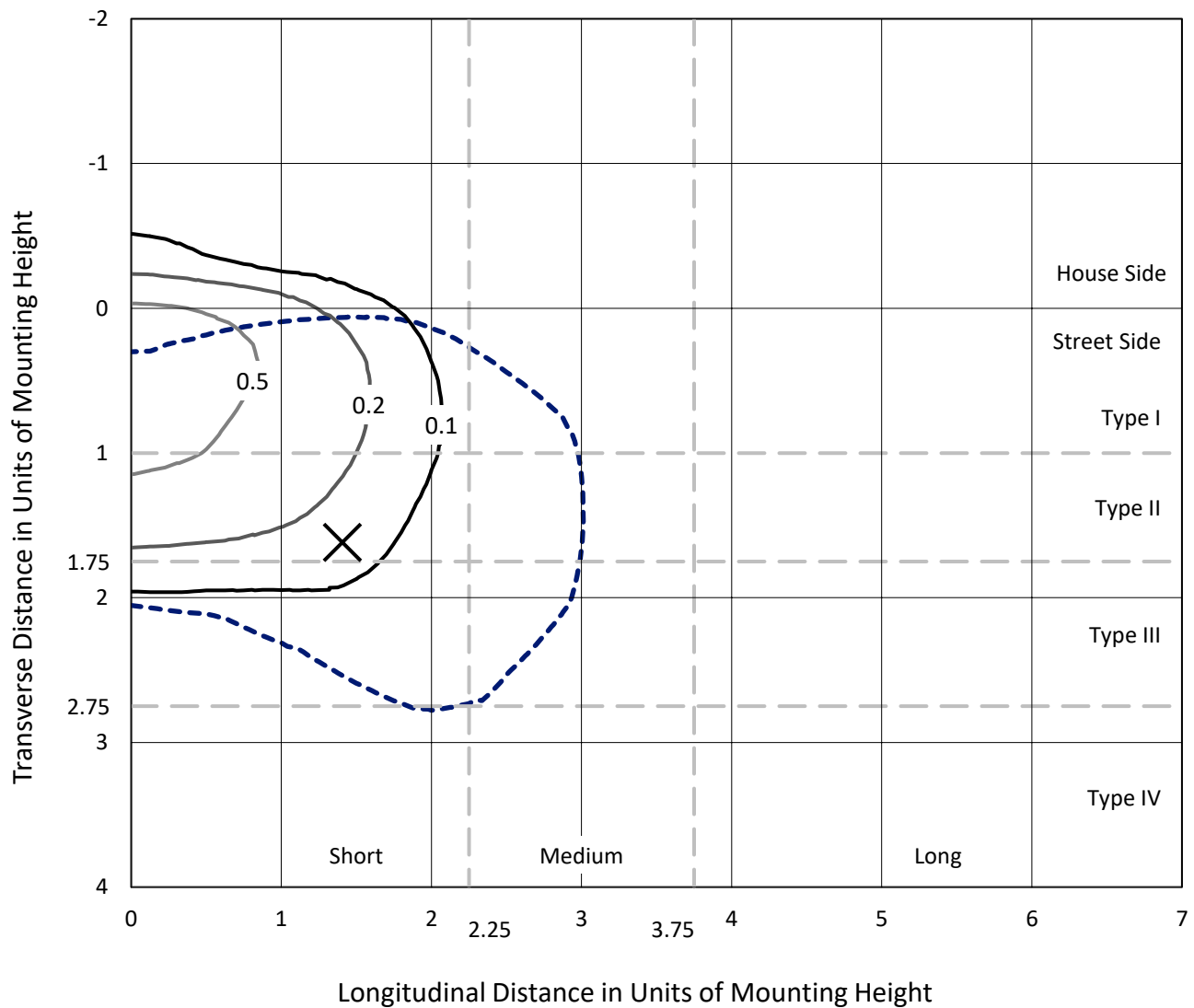


REPORT NUMBER: P798584

CATALOG NUMBER: ARCH1-20-722-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

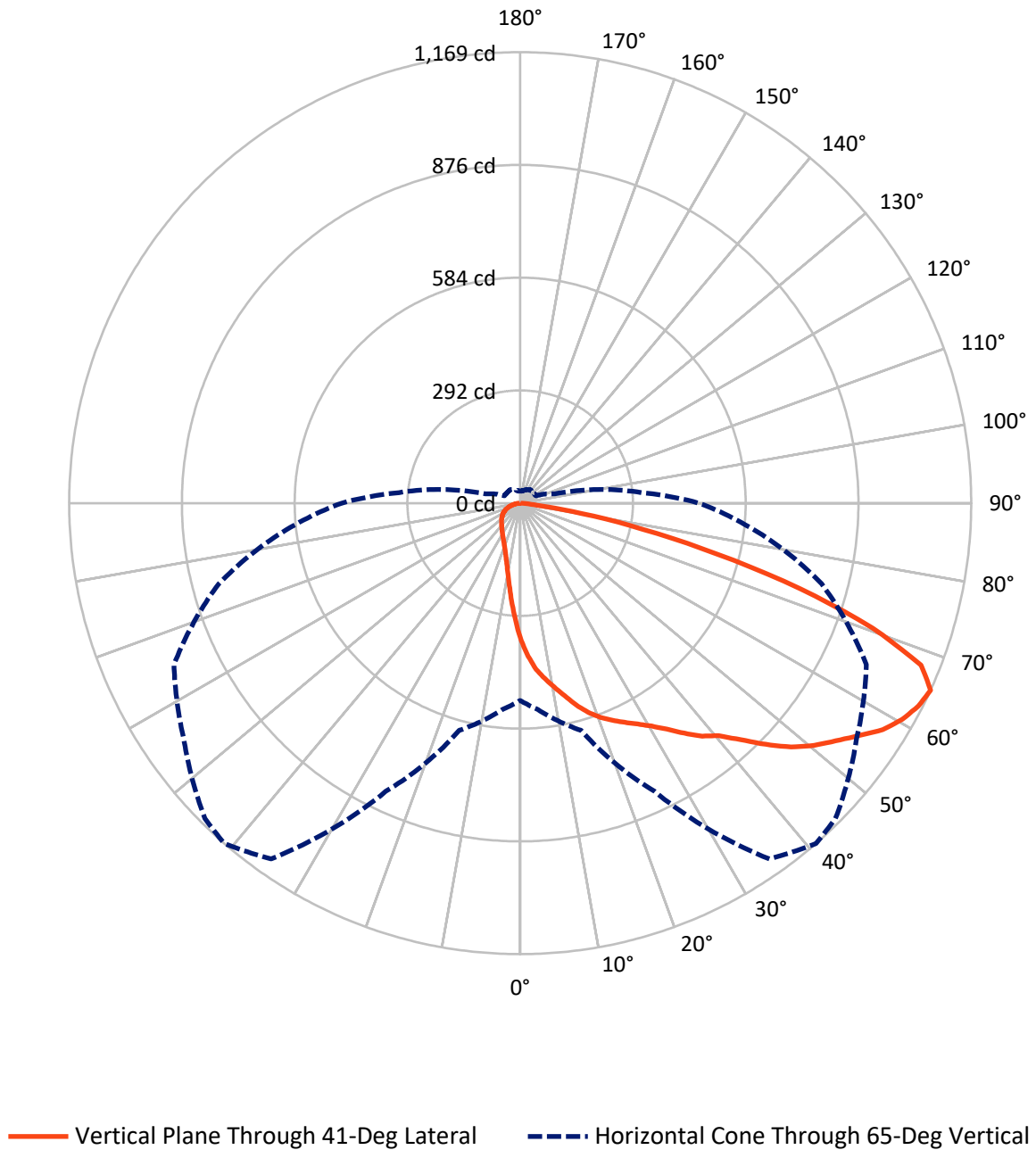


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

REPORT NUMBER: P798584

CATALOG NUMBER: ARCH1-20-722-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P798584

CATALOG NUMBER: ARCH1-20-722-U-T4W-HSS

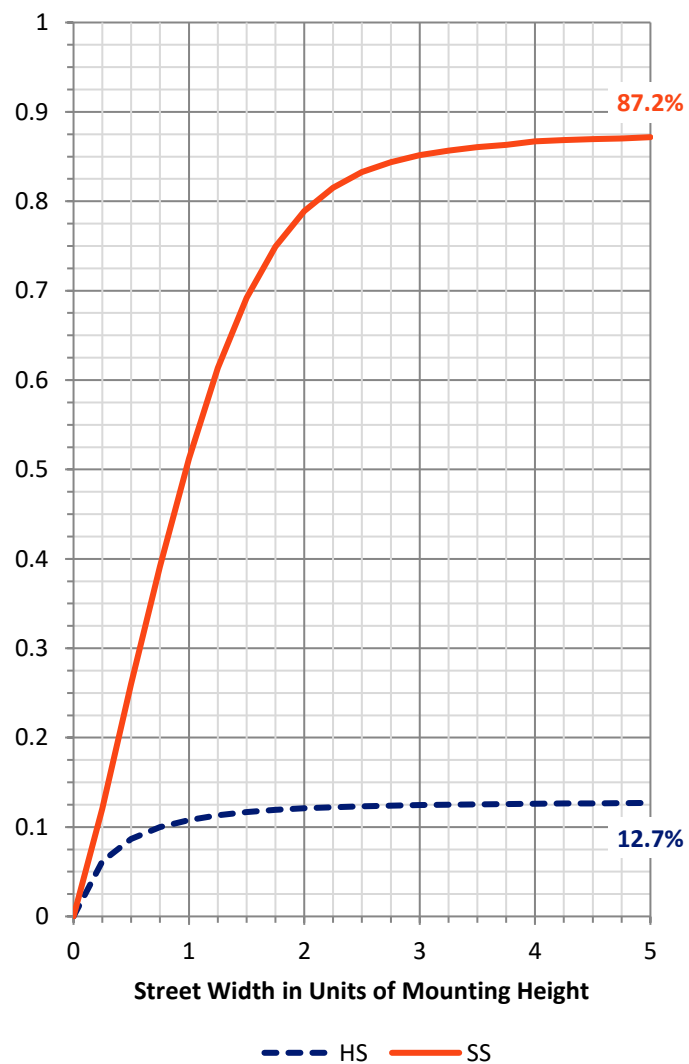
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	268.5	0.0	268.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1822.5	0.0	1822.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	2091.0	0.0	2091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	1.6
10°-20°	99.5	4.8
20°-30°	171.3	8.2
30°-40°	259.7	12.4
40°-50°	380.5	18.2
50°-60°	480.5	23.0
60°-70°	450.6	21.5
70°-80°	200.8	9.6
80°-90°	14.9	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°	2091.0	100.0
0°-180°	2091.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798584

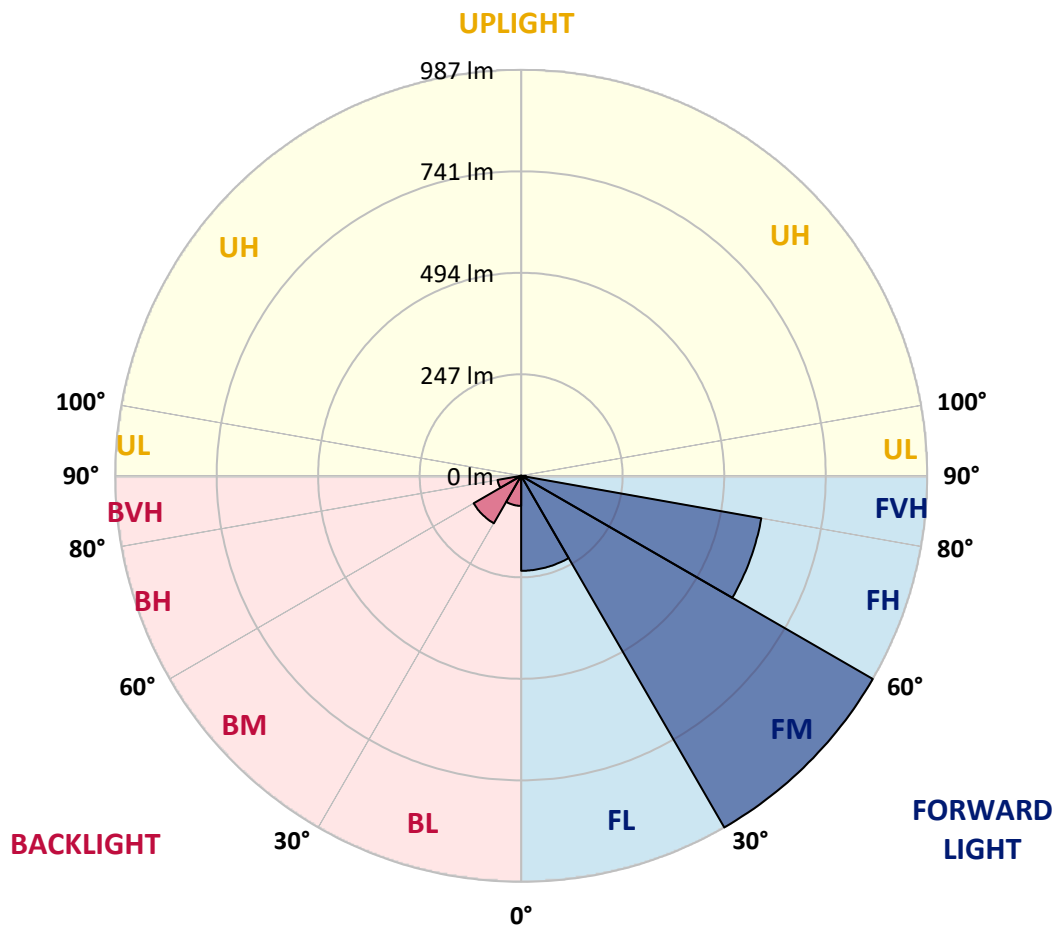
CATALOG NUMBER: ARCH1-20-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.9	11.0			
FM	(30°-60°)	987.4	47.2			
FH	(60°-80°)	593.1	28.4			G0/660
FVH	(80°-90°)	11.1	0.5			G1/100
BL	(0°-30°)	73.1	3.5	B0/110		
BM	(30°-60°)	133.3	6.4	B0/220		
BH	(60°-80°)	58.3	2.8	B0/110		G0/110
BVH	(80°-90°)	3.8	0.2			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: P798584

CATALOG NUMBER: ARCH1-20-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3
2.5°	411.0	409.7	408.8	403.9	403.9	397.3	397.7	391.6	384.1	372.2	359.4
5°	449.8	448.0	445.8	441.0	439.2	432.6	431.7	422.9	410.1	389.4	366.4
7.5°	483.7	482.0	478.9	471.8	467.0	459.0	456.8	445.4	431.3	405.7	373.5
10°	514.6	513.3	509.3	500.5	493.9	484.2	480.2	464.8	447.1	418.9	379.2
12.5°	545.9	544.1	538.9	531.4	523.4	512.0	507.1	487.3	464.8	433.5	387.6
15°	575.0	572.4	568.4	560.5	553.4	542.4	537.1	513.7	486.4	449.8	398.6
17.5°	594.0	591.8	588.2	583.8	578.1	569.7	564.4	541.5	508.0	465.7	410.1
20°	605.4	604.6	603.2	600.6	597.9	592.2	588.2	566.6	531.4	481.1	421.1
22.5°	614.3	613.4	612.9	612.9	613.4	611.2	608.5	590.0	553.8	497.4	431.3
25°	627.9	627.5	626.6	625.7	628.8	629.2	628.4	615.6	582.1	519.0	444.0
27.5°	646.9	645.6	643.8	642.9	646.0	648.2	650.0	641.2	612.1	541.1	458.6
30°	676.0	672.0	667.6	664.5	666.7	670.3	674.2	668.9	642.9	568.4	473.6
32.5°	710.4	705.5	695.4	689.7	695.4	698.0	701.1	698.5	675.1	597.9	488.6
35°	752.3	746.5	736.0	727.6	737.7	732.0	730.7	728.0	705.5	627.0	505.3
37.5°	821.9	813.6	796.8	778.3	778.3	765.9	761.1	753.2	732.9	653.1	521.7
40°	902.6	891.6	870.0	842.7	817.5	792.0	788.9	783.1	765.1	683.0	540.2
42.5°	991.3	970.1	940.1	907.1	866.5	837.4	830.3	814.0	796.4	713.5	558.7
45°	1089.6	1045.5	1001.9	985.1	918.1	891.6	878.4	848.8	829.0	745.2	578.1
47.5°	1105.5	1071.1	1042.0	1039.3	966.1	944.1	929.1	886.8	864.3	779.2	598.4
50°	1096.7	1075.9	1079.0	1068.4	1001.4	986.9	975.4	927.3	899.1	811.8	616.9
52.5°	1059.6	1071.1	1088.7	1069.3	1034.9	1023.0	1017.3	971.0	931.7	841.8	633.7
55°	1015.5	1023.5	1061.4	1085.2	1073.7	1063.2	1057.9	1021.7	963.9	866.9	649.1
57.5°	951.2	947.6	989.5	1082.6	1114.3	1108.1	1102.4	1071.5	993.9	885.0	658.8
60°	854.6	847.1	900.0	1029.6	1127.5	1137.2	1134.6	1104.6	1016.9	884.6	654.8
62.5°	687.5	706.0	779.2	943.2	1133.3	1158.0	1153.1	1107.2	1024.3	859.0	629.7
65°	511.1	537.5	609.4	824.2	1125.3	1168.5	1155.3	1064.0	989.5	808.3	574.6
67.5°	368.2	391.6	444.0	678.2	1049.0	1120.0	1104.6	993.5	909.3	736.4	498.3
70°	251.8	268.5	304.3	493.9	895.6	968.3	958.6	888.1	782.7	650.9	404.8
72.5°	177.7	184.8	207.7	325.9	680.4	759.8	748.3	730.7	628.8	541.1	314.8
75°	133.2	137.6	149.9	210.8	459.0	526.5	515.9	526.1	469.6	409.7	229.3
77.5°	50.3	54.7	85.1	134.5	271.6	323.2	312.6	318.8	261.0	206.8	114.2
80°	13.7	14.6	28.2	63.9	123.5	161.0	146.4	125.7	97.0	95.2	60.4
82.5°	5.7	6.6	12.8	34.4	44.1	44.1	37.0	45.9	37.0	44.5	29.1
85°	2.2	2.6	3.1	8.8	5.7	6.2	6.6	8.8	7.5	9.3	6.6
87.5°	0.0	0.0	0.0	0.4	0.4	0.9	0.4	0.9	1.3	1.3	1.3
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: P798584

CATALOG NUMBER: ARCH1-20-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3
2.5°	354.1	349.2	342.2	330.7	318.8	312.2	303.8	302.5	293.7	292.8	289.3
5°	356.3	346.2	328.1	306.0	284.4	267.7	255.3	248.7	235.9	235.9	232.4
7.5°	358.1	342.2	313.1	280.5	250.9	228.4	211.7	204.6	193.1	192.3	189.6
10°	358.5	337.3	296.8	254.4	218.3	195.3	179.0	171.1	161.0	160.1	158.3
12.5°	362.0	334.7	282.2	231.9	194.9	170.2	154.3	147.7	139.8	138.9	137.1
15°	367.8	334.7	269.9	213.0	174.2	151.2	137.6	131.4	125.7	124.8	123.9
17.5°	373.5	333.8	257.5	195.3	157.0	136.3	124.4	119.5	115.1	114.6	113.8
20°	378.8	333.4	245.2	180.4	143.8	123.9	114.6	110.2	106.7	106.7	106.3
22.5°	384.1	332.5	233.3	166.2	132.3	114.6	106.7	101.9	99.2	99.2	98.8
25°	392.0	332.5	222.2	154.3	123.0	107.6	99.7	96.1	93.9	93.5	93.5
27.5°	401.3	335.1	212.5	143.8	115.1	100.5	94.4	90.8	88.2	87.3	87.8
30°	411.4	337.3	203.7	134.5	107.6	95.2	88.6	85.1	82.5	81.6	82.0
32.5°	421.6	340.0	195.8	126.1	100.1	90.4	83.8	79.8	77.2	76.7	76.7
35°	432.6	342.6	187.8	119.1	93.9	85.5	79.4	75.0	73.2	72.3	72.8
37.5°	443.6	347.0	180.4	112.4	89.5	81.1	75.4	71.0	69.7	69.2	69.2
40°	456.8	353.6	177.3	108.0	85.5	77.2	72.3	67.9	66.6	66.6	66.6
42.5°	467.9	358.9	174.6	103.2	82.5	73.6	69.2	65.7	64.8	64.4	64.8
45°	478.9	363.8	171.1	98.8	78.5	70.1	66.6	63.1	62.2	62.2	62.2
47.5°	489.9	366.4	166.2	94.4	75.0	67.0	63.9	60.9	60.0	60.0	60.0
50°	498.7	368.6	159.2	89.5	71.0	64.4	61.3	58.2	57.3	57.3	57.3
52.5°	507.5	369.1	151.7	83.8	67.0	61.3	58.6	55.6	54.7	54.2	54.2
55°	515.5	368.6	142.9	77.2	62.6	57.8	55.6	52.9	51.2	49.4	50.3
57.5°	521.2	368.2	132.7	70.6	58.2	54.2	53.4	49.8	46.3	41.9	42.8
60°	519.0	363.4	121.7	62.2	53.4	50.7	50.7	45.9	39.7	37.5	37.9
62.5°	504.9	349.7	110.2	53.4	48.5	47.2	46.7	41.5	36.6	34.4	34.8
65°	462.6	315.3	93.5	45.4	43.7	43.2	43.2	38.4	34.0	31.3	31.7
67.5°	398.2	264.6	76.3	38.4	38.8	39.7	39.7	35.3	30.9	28.2	28.7
70°	319.3	206.8	60.9	33.1	33.5	34.8	35.7	31.7	27.8	25.1	25.1
72.5°	240.3	157.0	48.9	27.8	30.0	30.0	31.3	28.2	24.3	21.6	22.0
75°	174.2	112.4	38.8	23.4	26.0	25.6	25.6	23.8	20.7	19.0	19.0
77.5°	82.5	59.1	30.9	16.8	20.3	19.8	20.3	19.0	17.6	15.9	16.3
80°	40.6	29.1	19.8	11.9	14.1	14.6	15.9	15.0	14.6	13.2	13.2
82.5°	19.4	11.5	9.3	8.4	9.7	10.1	11.0	11.0	11.5	10.6	10.6
85°	5.3	3.1	4.0	5.3	6.2	6.6	7.5	7.9	7.9	7.5	7.9
87.5°	1.3	1.3	1.8	2.6	3.1	3.5	4.0	4.0	1.8	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)