

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: P798585

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

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798585  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)  
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  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

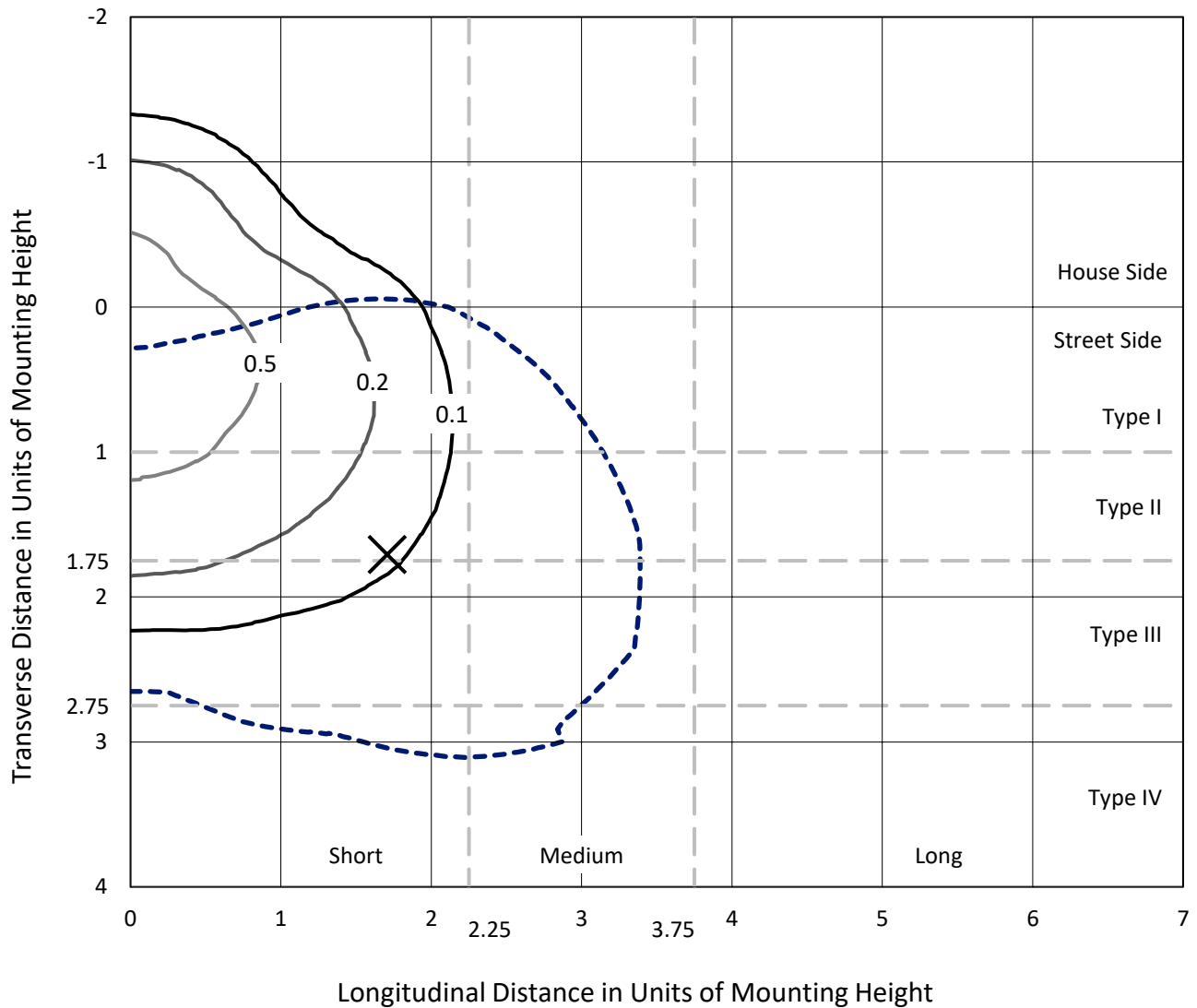
Lumens per Lamp: N/A  
Luminaire Lumens: 2898 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

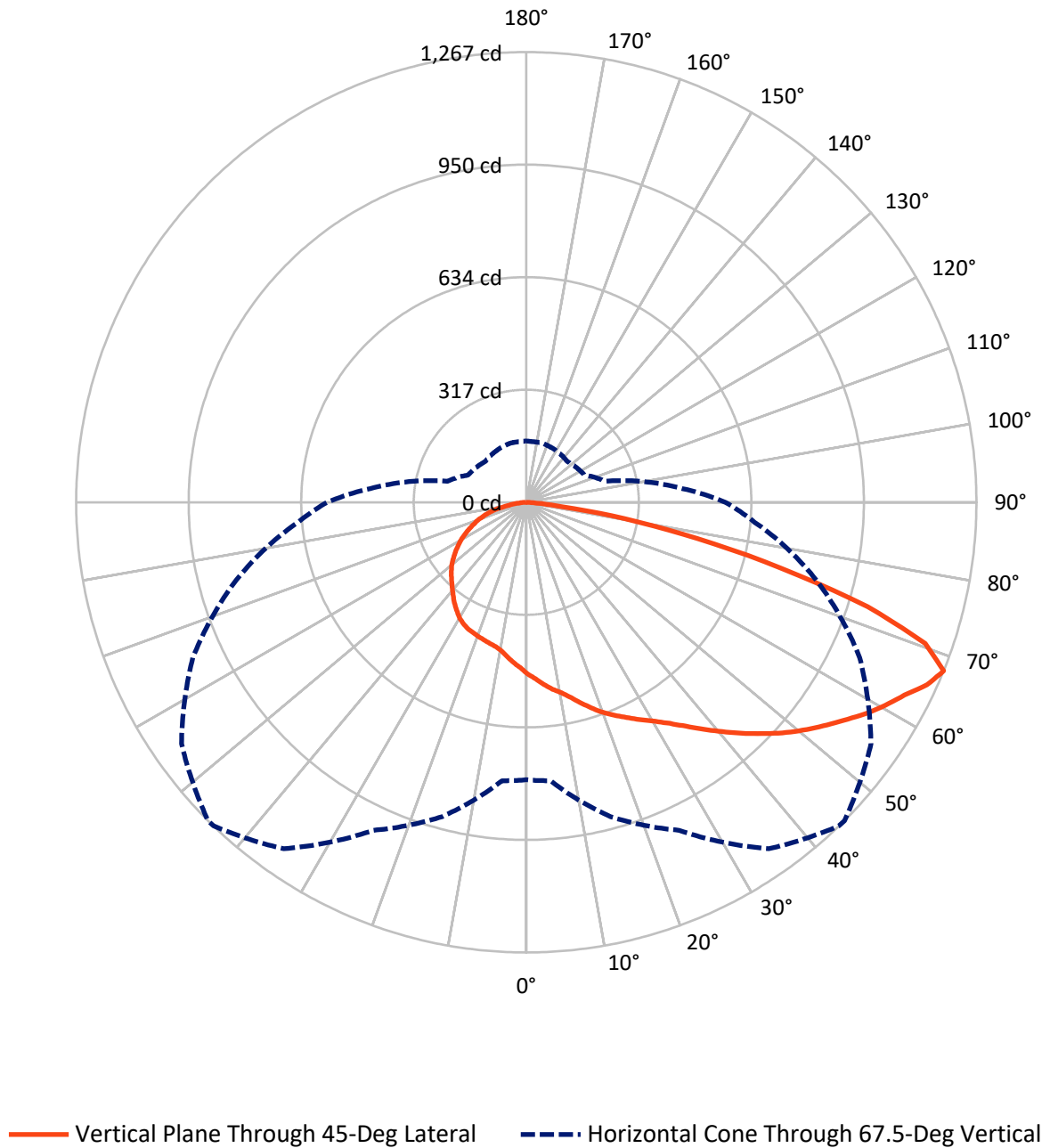
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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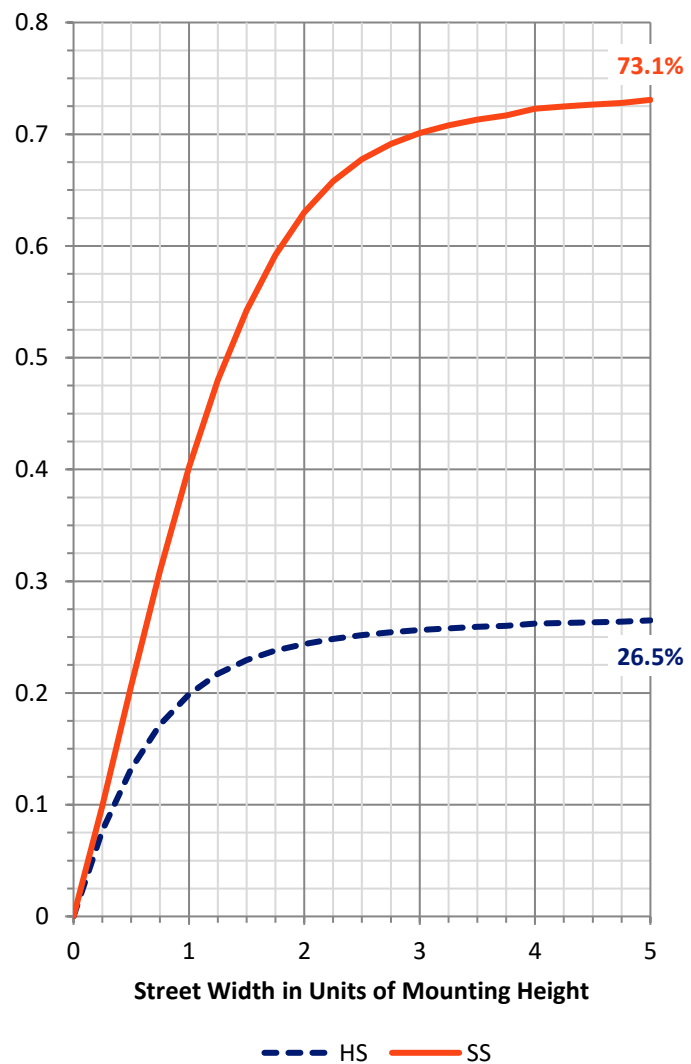
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	774.2	0.0	774.2
	% Fixture	26.7	0.0	26.7
<b>Street Side</b>	Lumens	2123.8	0.0	2123.8
	% Fixture	73.3	0.0	73.3
<b>Total</b>	Lumens	2898.0	0.0	2898.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.3	1.6
10°-20°	143.0	4.9
20°-30°	246.8	8.5
30°-40°	363.9	12.6
40°-50°	493.0	17.0
50°-60°	602.5	20.8
60°-70°	621.4	21.4
70°-80°	340.4	11.7
80°-90°	40.8	1.4
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°	2898.0	100.0
0°-180°	2898.0	100.0

**Coefficient of Utilization**



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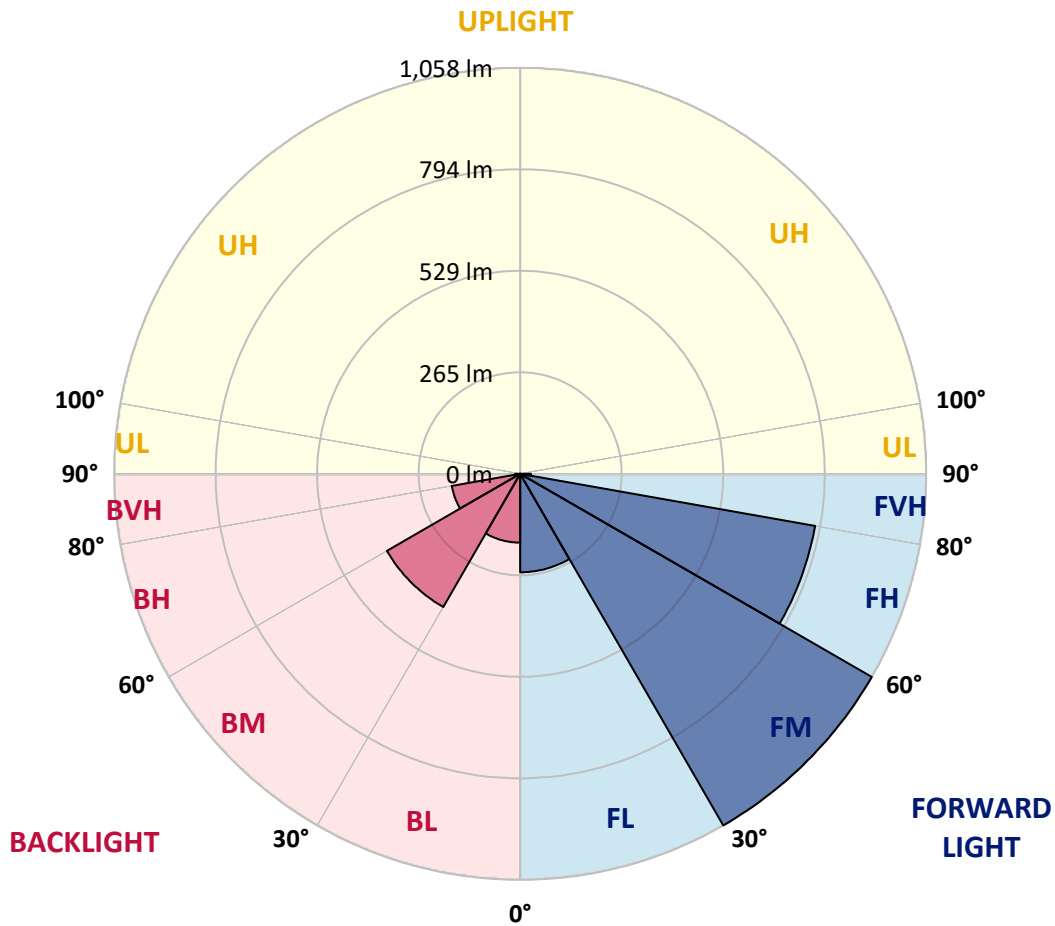
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.6	8.9			
FM (30°-60°)	1058.4	36.5			
FH (60°-80°)	780.8	26.9			G1/1800
FVH (80°-90°)	28.1	1.0			G1/100
BL (0°-30°)	179.4	6.2	B1/500		
BM (30°-60°)	401.0	13.8	B1/1000		
BH (60°-80°)	181.0	6.2	B1/500		G1/500
BVH (80°-90°)	12.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3
2.5°	504.5	504.1	504.9	501.9	497.9	497.4	497.4	494.8	491.7	485.5	480.7
5°	528.3	527.4	527.9	523.5	518.2	515.5	515.1	509.4	502.3	492.6	483.8
7.5°	550.4	549.5	549.0	544.2	536.3	531.8	531.4	523.0	514.6	499.6	486.9
10°	571.1	570.2	569.3	562.7	553.0	546.4	545.5	534.9	524.3	505.8	489.5
12.5°	597.5	595.8	594.9	587.0	572.9	565.8	564.5	550.4	537.1	514.6	494.8
15°	625.3	624.0	622.7	615.2	599.3	590.1	587.8	570.2	552.1	526.1	502.7
17.5°	646.1	644.7	644.7	638.1	623.6	613.0	611.2	590.1	567.6	536.7	508.9
20°	658.8	657.5	658.8	654.9	643.9	635.0	633.3	609.9	583.0	546.4	514.2
22.5°	668.1	666.8	669.0	667.2	659.3	654.0	652.7	629.7	598.9	556.5	519.5
25°	684.4	684.4	684.4	681.3	673.8	672.1	672.1	652.2	619.2	569.8	527.4
27.5°	717.1	715.3	713.1	704.3	691.5	691.0	693.7	675.2	642.5	587.0	537.1
30°	765.1	764.2	755.9	737.3	715.7	713.5	715.3	699.9	667.7	605.0	548.2
32.5°	827.3	824.2	807.0	779.2	748.4	738.2	741.8	725.4	694.1	623.6	558.7
35°	871.4	872.3	859.9	834.8	798.2	771.3	773.9	754.1	722.8	644.3	572.0
37.5°	922.1	925.2	906.7	887.7	853.8	807.9	810.6	783.6	751.5	670.3	586.1
40°	992.2	986.1	954.8	932.3	894.8	846.3	848.5	816.7	784.5	695.0	602.4
42.5°	1050.9	1039.9	1001.9	973.3	928.3	886.8	889.0	852.4	818.0	722.4	620.5
45°	1135.1	1104.7	1050.0	1035.9	962.7	926.5	928.7	890.4	853.3	751.5	639.9
47.5°	1184.1	1135.6	1100.7	1093.2	1000.6	967.5	970.2	930.5	891.3	784.5	660.2
50°	1181.0	1149.7	1139.5	1121.0	1034.1	1005.9	1008.6	972.0	929.6	817.2	679.6
52.5°	1160.7	1166.4	1161.1	1130.3	1067.7	1043.0	1046.0	1013.0	968.9	847.6	697.7
55°	1192.0	1196.0	1185.8	1145.3	1104.7	1080.0	1083.5	1056.2	1007.7	874.5	713.1
57.5°	1229.5	1215.4	1205.2	1171.7	1143.1	1120.1	1124.1	1100.3	1041.2	896.1	725.0
60°	1227.7	1198.2	1208.3	1173.5	1169.1	1157.2	1160.7	1136.4	1066.8	912.0	729.8
62.5°	1137.3	1121.5	1172.6	1160.7	1190.2	1190.2	1194.7	1158.5	1082.2	918.6	727.2
65°	980.3	981.2	1071.2	1120.6	1215.4	1235.7	1239.2	1172.2	1073.4	899.2	702.5
67.5°	781.0	786.7	915.9	1018.7	1190.2	1266.5	1267.0	1184.5	1035.5	844.5	645.2
70°	571.5	575.9	728.5	853.3	1071.6	1198.2	1191.1	1149.7	953.0	749.3	555.7
72.5°	386.3	390.3	547.3	655.3	879.3	1020.5	1005.0	1016.1	812.3	615.6	446.7
75°	259.7	264.6	389.4	468.8	646.9	774.8	740.4	769.5	628.4	466.1	325.9
77.5°	163.6	166.7	247.4	307.4	441.9	527.4	493.0	493.5	362.1	250.9	175.1
80°	104.1	105.0	149.9	177.3	255.8	317.1	280.5	228.0	163.2	133.2	104.5
82.5°	60.4	59.1	89.5	100.1	121.7	120.4	99.7	94.4	71.4	66.6	53.4
85°	24.3	22.5	39.2	36.6	37.0	39.2	29.1	29.1	23.4	18.1	13.2
87.5°	4.9	4.9	5.3	4.9	4.9	5.3	4.0	4.0	3.5	3.5	3.5
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°	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3
2.5°	479.8	478.9	476.7	471.0	467.9	466.1	463.5	462.6	462.2	462.6	463.9
5°	481.1	478.0	471.9	462.6	456.4	452.5	448.1	446.3	445.0	445.0	446.3
7.5°	482.0	477.2	466.6	452.9	444.1	437.9	432.6	430.4	430.0	431.3	431.7
10°	482.4	475.4	460.4	443.2	431.7	423.8	418.5	417.2	418.5	421.2	421.6
12.5°	485.5	475.8	456.9	436.6	422.9	415.0	411.0	411.0	414.5	419.4	419.8
15°	490.8	478.9	455.1	431.3	417.2	410.1	408.8	411.0	416.3	423.8	424.7
17.5°	494.8	480.7	451.1	424.2	409.7	405.3	407.5	412.8	420.3	430.4	431.3
20°	497.4	480.7	445.4	415.9	402.2	401.3	407.5	415.9	423.8	435.7	437.0
22.5°	500.1	479.8	438.8	405.7	393.8	396.5	407.9	418.5	426.4	439.2	441.4
25°	504.9	481.1	432.2	395.6	385.0	392.5	407.5	420.3	428.6	441.9	445.4
27.5°	511.6	484.2	427.3	386.3	376.2	386.3	404.4	419.8	428.6	441.4	445.4
30°	518.6	487.7	421.6	376.2	366.0	377.5	397.8	415.0	425.1	437.0	441.9
32.5°	526.1	491.7	416.7	365.1	353.7	365.6	388.1	407.5	418.5	429.5	434.8
35°	536.3	498.8	414.1	356.3	342.7	353.2	375.7	397.8	409.7	419.8	426.0
37.5°	548.6	507.6	412.8	347.5	330.7	339.6	362.5	385.9	398.7	407.0	412.8
40°	562.7	518.6	412.3	339.1	318.8	325.5	348.8	372.2	384.5	391.2	396.0
42.5°	578.6	531.0	411.4	330.7	306.9	312.2	335.6	358.5	369.1	374.8	379.3
45°	595.3	543.3	409.7	320.6	294.1	300.3	321.9	342.2	353.2	358.1	362.9
47.5°	612.1	555.7	406.2	309.1	282.7	288.4	307.4	325.0	333.8	338.2	343.1
50°	628.4	566.7	397.8	295.9	270.8	276.1	290.6	302.5	309.1	312.7	317.5
52.5°	643.0	574.2	385.9	280.5	258.9	261.5	271.2	281.4	286.6	287.1	291.5
55°	655.3	578.1	368.7	264.6	246.1	246.5	251.8	259.7	262.0	260.2	263.3
57.5°	662.4	575.9	349.7	248.3	232.8	231.1	235.1	239.0	239.5	235.1	238.1
60°	664.1	565.8	325.0	232.0	219.6	214.8	216.1	215.2	214.3	212.6	215.2
62.5°	655.3	544.2	297.7	216.1	205.5	198.0	197.6	197.1	198.4	198.9	199.3
65°	623.1	503.6	265.0	199.8	190.5	180.4	179.9	185.2	187.0	184.3	185.2
67.5°	560.9	441.4	229.3	180.8	171.5	162.7	166.3	169.3	172.4	171.5	172.4
70°	472.7	362.5	196.7	159.6	150.8	146.0	149.9	152.6	153.0	152.1	153.0
72.5°	371.8	283.1	166.3	138.0	130.1	127.9	132.7	134.9	138.9	140.7	141.1
75°	268.6	209.0	136.3	114.7	108.0	108.0	112.5	116.4	120.0	117.7	116.4
77.5°	149.9	124.8	97.9	78.9	80.3	86.4	88.2	92.6	96.1	95.7	94.8
80°	90.8	78.1	66.1	51.2	50.7	55.6	67.0	74.5	76.3	72.3	71.9
82.5°	47.2	41.0	35.3	28.7	31.8	37.0	38.8	46.7	51.6	49.8	52.0
85°	11.9	11.5	12.8	13.2	16.3	18.1	19.8	23.4	15.4	7.5	7.5
87.5°	3.5	3.5	4.4	4.4	5.7	7.1	6.6	6.6	3.5	0.4	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)