

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: P798613

Luminaire Tested: **ARCH1-20-730-U-T2U**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-20-730-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

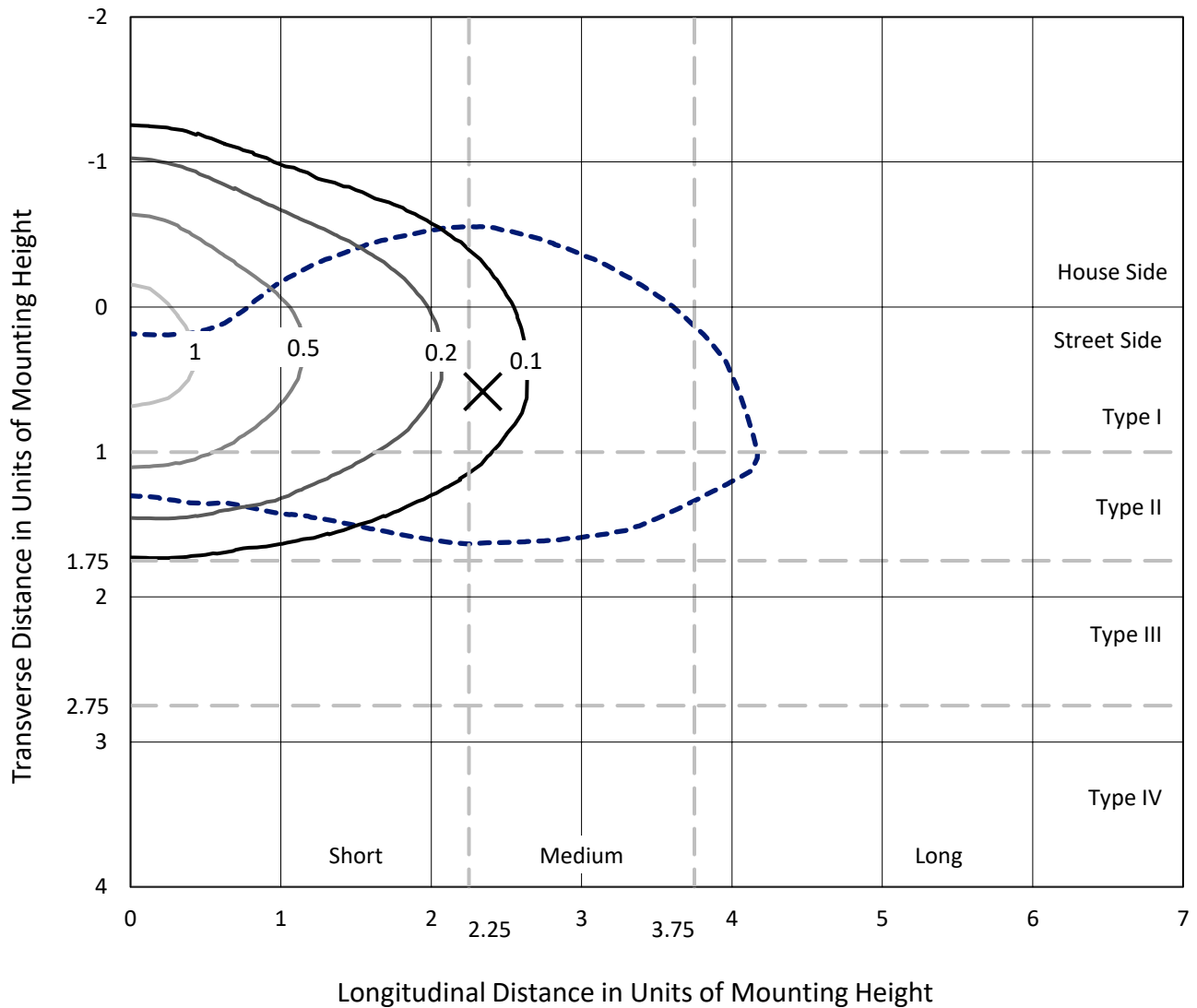
Lumens per Lamp: N/A  
Luminaire Lumens: 3441 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): 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

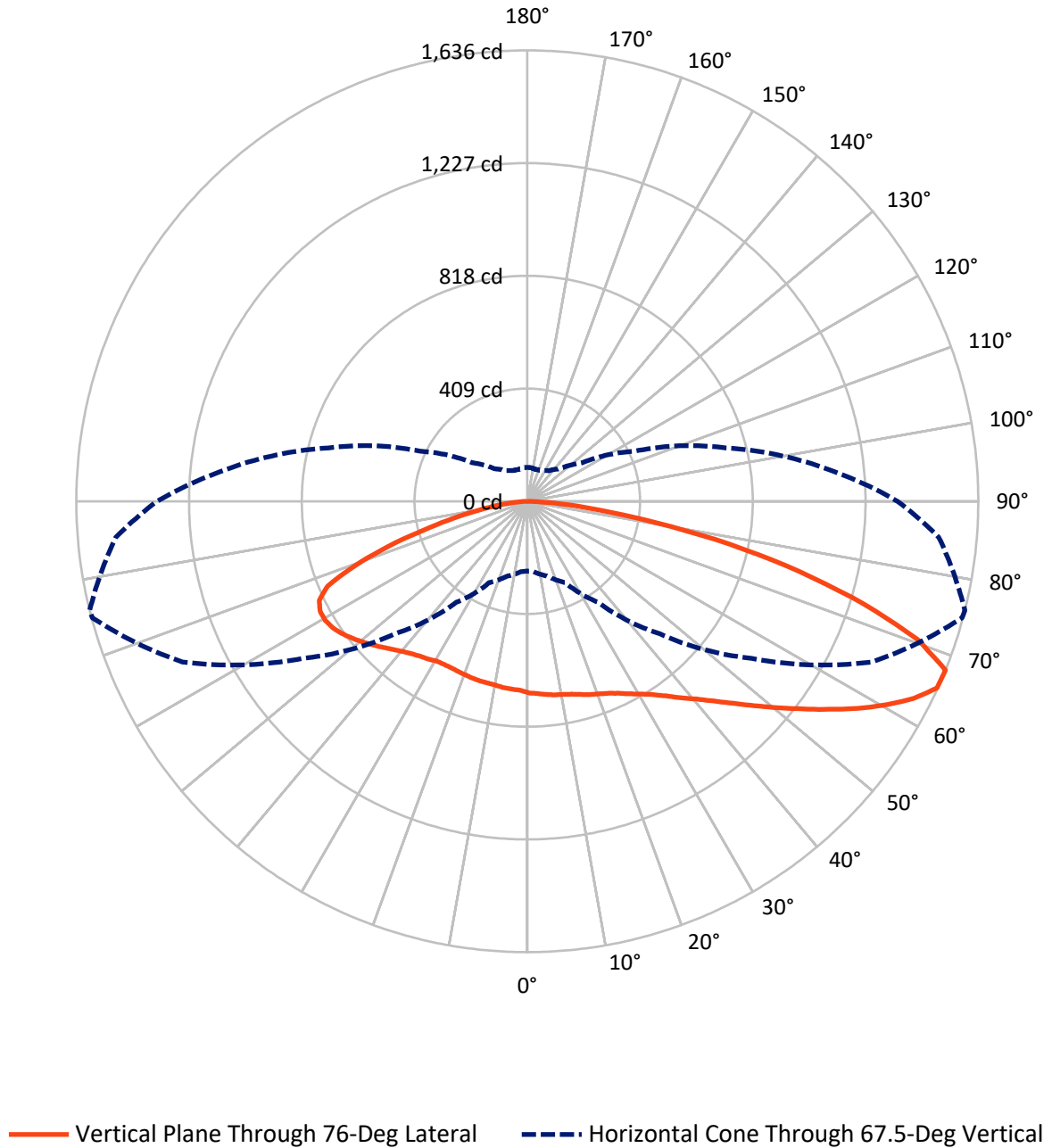
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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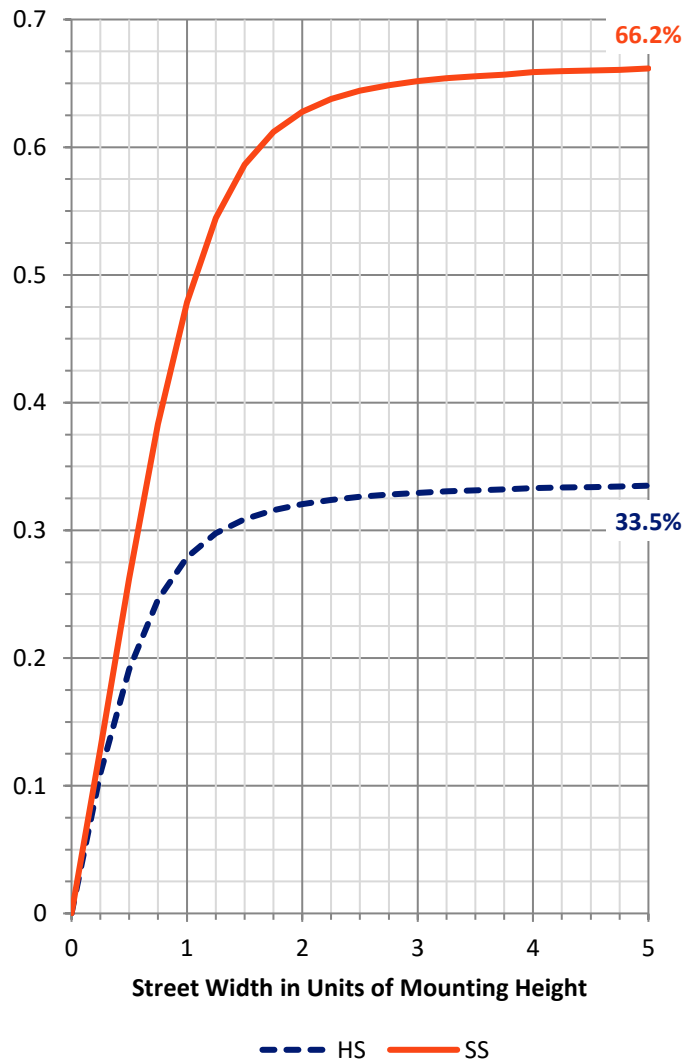
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1162.7	0.0	1162.7
	% Fixture	33.8	0.0	33.8
<b>Street Side</b>	Lumens	2278.3	0.0	2278.3
	% Fixture	66.2	0.0	66.2
<b>Total</b>	Lumens	3441.0	0.0	3441.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	1.9
10°-20°	204.9	6.0
20°-30°	348.1	10.1
30°-40°	495.4	14.4
40°-50°	625.6	18.2
50°-60°	677.3	19.7
60°-70°	630.0	18.3
70°-80°	338.4	9.8
80°-90°	54.2	1.6
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°	3441.0	100.0
0°-180°	3441.0	100.0

**Coefficient of Utilization**



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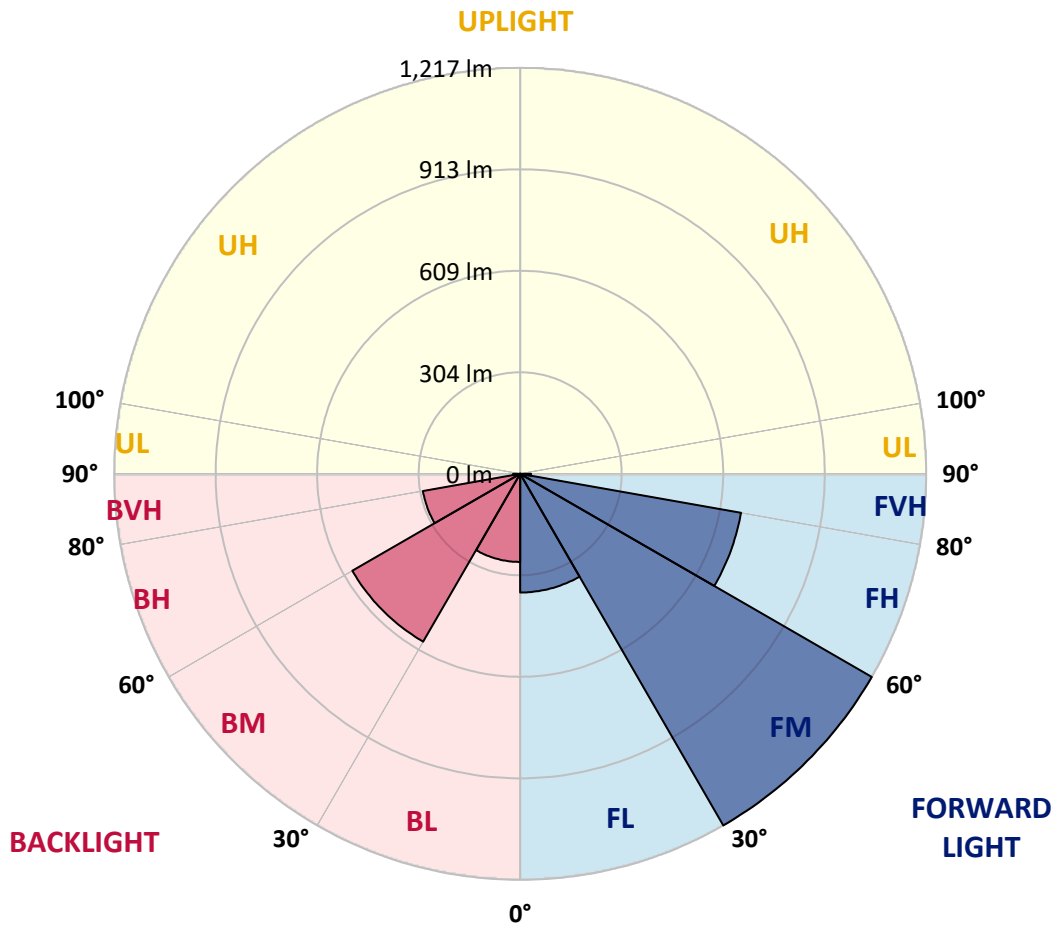
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.8	10.3			
FM (30°-60°)	1217.3	35.4			
FH (60°-80°)	672.3	19.5			G1/1800
FVH (80°-90°)	32.8	1.0			G1/100
BL (0°-30°)	264.2	7.7	B1/500		
BM (30°-60°)	581.0	16.9	B1/1000		
BH (60°-80°)	296.0	8.6	B1/500		G1/500
BVH (80°-90°)	21.4	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1
2.5°	716.2	714.9	709.8	710.4	710.4	709.8	702.1	698.9	698.9	698.3	691.2
5°	741.7	739.8	734.0	732.8	730.2	727.0	714.9	707.9	704.7	704.0	694.4
7.5°	771.7	769.2	762.2	758.3	751.9	743.6	728.3	717.4	709.8	709.1	695.7
10°	801.8	799.2	790.9	783.9	774.9	761.5	741.7	725.7	713.6	712.3	696.4
12.5°	837.5	835.0	824.8	815.8	802.4	784.5	758.3	736.6	720.0	718.1	698.3
15°	875.2	871.4	861.2	851.0	834.3	811.3	780.0	751.3	730.2	727.0	704.0
17.5°	906.5	901.4	893.1	882.9	864.4	837.5	801.8	766.0	739.8	737.2	709.8
20°	933.4	929.5	920.6	911.0	891.2	861.8	822.2	780.7	748.7	745.5	714.2
22.5°	958.9	953.8	948.7	941.7	920.0	887.4	845.8	798.6	760.2	756.4	720.0
25°	988.3	982.6	980.6	976.8	951.3	918.0	874.6	820.9	776.2	771.7	730.2
27.5°	1024.7	1018.3	1014.5	1014.5	983.8	949.3	905.3	847.1	794.7	790.9	743.0
30°	1063.1	1055.4	1049.6	1049.6	1015.1	980.6	935.3	873.3	815.8	811.3	759.6
32.5°	1096.9	1089.2	1082.9	1082.2	1046.4	1011.9	966.6	902.1	841.4	835.6	780.0
35°	1123.1	1116.1	1110.3	1111.6	1077.7	1043.9	1001.7	940.4	873.3	866.9	806.9
37.5°	1139.1	1136.5	1133.3	1137.8	1106.5	1074.6	1038.1	977.4	909.7	904.0	840.1
40°	1147.4	1145.5	1158.2	1164.0	1130.8	1102.0	1074.6	1015.8	949.3	943.0	878.4
42.5°	1159.5	1175.5	1180.6	1179.3	1148.7	1123.1	1107.8	1057.3	996.0	990.2	924.4
45°	1116.1	1112.2	1140.4	1155.7	1149.9	1136.5	1139.1	1107.1	1050.3	1044.5	977.4
47.5°	1057.9	1052.8	1068.8	1106.5	1128.9	1141.6	1167.2	1158.9	1112.9	1107.8	1039.4
50°	935.3	942.3	1001.7	1052.2	1096.3	1140.4	1190.8	1214.5	1181.9	1176.8	1105.9
52.5°	799.2	806.2	868.2	984.5	1056.7	1130.8	1208.1	1270.0	1256.6	1250.9	1176.8
55°	700.2	715.5	785.8	870.1	1000.4	1100.7	1218.3	1326.9	1337.1	1332.0	1254.1
57.5°	601.8	613.3	666.3	741.1	923.8	1048.4	1217.7	1379.9	1421.5	1416.3	1332.7
60°	486.2	500.9	543.0	623.5	821.6	985.8	1199.8	1421.5	1502.6	1498.8	1408.7
62.5°	407.0	411.4	441.4	511.1	690.0	906.5	1159.5	1443.8	1576.1	1573.5	1477.0
65°	327.7	328.4	355.8	414.0	562.8	808.2	1091.2	1435.5	1631.6	1632.9	1526.2
67.5°	253.0	256.2	281.1	325.2	447.2	680.4	993.4	1379.3	1632.3	1635.5	1498.1
70°	175.0	177.6	215.3	258.1	345.6	542.4	861.2	1230.4	1498.1	1500.7	1342.9
72.5°	123.3	124.6	164.8	206.4	270.2	408.9	649.7	1017.7	1277.1	1279.0	1129.5
75°	92.0	93.3	116.3	156.5	207.0	283.0	444.0	779.4	1020.3	1020.3	891.8
77.5°	65.2	65.8	75.4	108.0	138.0	191.0	267.0	510.4	748.7	750.0	649.7
80°	44.1	44.7	49.2	72.8	86.2	103.5	145.0	267.7	472.1	474.0	412.7
82.5°	23.0	24.3	27.5	37.1	43.4	57.5	74.7	136.1	261.3	266.4	247.9
85°	8.9	8.9	10.2	12.1	16.0	22.4	34.5	51.7	118.2	122.0	109.2
87.5°	3.2	3.2	3.8	3.8	4.5	5.1	5.7	7.7	13.4	13.4	12.8
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°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1
2.5°	688.7	688.7	685.5	686.8	686.1	684.9	683.6	685.5	683.6	679.1	678.5
5°	690.0	688.7	683.6	682.9	681.0	678.5	675.3	676.5	673.4	669.5	668.9
7.5°	690.6	688.0	681.0	678.5	674.6	669.5	664.4	664.4	659.9	656.1	655.5
10°	689.3	686.1	676.5	671.4	664.4	656.7	649.7	647.8	642.7	638.2	638.2
12.5°	690.0	685.5	673.4	665.0	655.5	645.9	636.9	634.4	629.9	625.4	624.8
15°	693.8	687.4	672.1	661.2	647.2	636.3	626.7	624.8	621.0	617.8	617.8
17.5°	697.6	689.3	670.2	654.8	637.6	625.4	616.5	616.5	613.9	612.0	612.0
20°	699.5	690.0	666.3	645.9	626.1	613.3	605.0	606.3	605.6	605.0	605.0
22.5°	704.0	691.2	663.1	637.6	613.9	600.5	592.9	594.8	594.1	594.1	594.8
25°	711.0	694.4	660.6	629.9	602.4	587.7	579.4	580.7	580.7	580.7	580.7
27.5°	720.6	700.8	659.9	622.9	590.9	574.3	564.1	564.1	561.6	562.2	562.8
30°	735.3	713.0	661.2	616.5	578.8	557.7	545.6	543.7	543.0	544.3	544.9
32.5°	753.2	729.6	668.9	612.0	566.0	539.2	523.9	523.2	521.3	521.3	521.3
35°	775.6	745.5	675.9	611.4	553.2	519.4	502.8	500.9	496.4	494.5	494.5
37.5°	804.3	770.5	684.2	606.9	542.4	500.2	480.4	474.0	468.9	468.3	468.3
40°	839.5	798.6	696.4	601.8	530.9	480.4	454.2	443.4	444.0	446.6	446.6
42.5°	881.0	833.1	711.7	599.2	514.3	460.0	423.6	410.8	415.3	417.8	418.5
45°	929.5	874.0	728.9	596.1	498.9	437.0	391.0	375.0	376.9	377.6	378.2
47.5°	985.8	919.3	746.8	593.5	481.7	408.2	355.2	334.1	333.5	329.6	330.9
50°	1044.5	967.2	765.3	589.0	460.6	374.4	317.5	292.6	287.5	281.7	282.4
52.5°	1107.1	1016.4	782.6	582.0	434.4	339.9	281.7	254.9	244.7	238.3	239.6
55°	1176.1	1066.9	799.2	571.1	407.0	305.4	249.8	222.3	209.5	204.4	205.1
57.5°	1239.4	1115.4	811.3	557.7	376.9	274.1	221.7	194.9	186.5	185.9	186.5
60°	1300.7	1156.3	816.5	539.2	346.3	245.3	195.5	175.0	169.3	172.5	173.1
62.5°	1352.5	1182.5	813.9	514.3	315.0	217.8	174.4	159.7	155.9	162.3	162.9
65°	1382.5	1190.8	796.0	478.5	281.1	191.0	154.6	138.6	136.7	140.5	142.5
67.5°	1342.9	1139.1	747.5	429.3	243.4	166.1	135.4	122.7	119.5	122.7	122.7
70°	1190.2	987.0	632.5	351.4	201.9	141.8	117.5	108.6	106.0	108.6	108.0
72.5°	991.5	820.9	498.3	274.1	159.1	119.5	102.2	93.9	91.4	88.8	87.5
75°	769.2	623.5	361.6	201.2	120.1	95.8	85.6	77.9	71.6	74.1	72.8
77.5°	563.5	437.6	256.2	139.3	86.2	74.1	67.1	61.3	56.9	62.0	61.3
80°	362.9	283.0	171.2	93.3	59.4	51.7	49.2	46.0	50.5	65.8	67.1
82.5°	221.7	179.5	102.2	60.7	39.0	34.5	31.9	31.9	51.7	56.9	57.5
85°	99.0	95.2	55.6	31.3	21.7	19.8	17.9	23.0	21.1	15.3	16.0
87.5°	16.0	16.6	12.1	10.9	8.3	8.3	6.4	4.5	3.2	1.9	1.9
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)