

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: P798597

Luminaire Tested: **ARCH1-20-727-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798597
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: ARCH1-20-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3320 lumens
Efficiency: N/A
Efficacy: 141.3 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

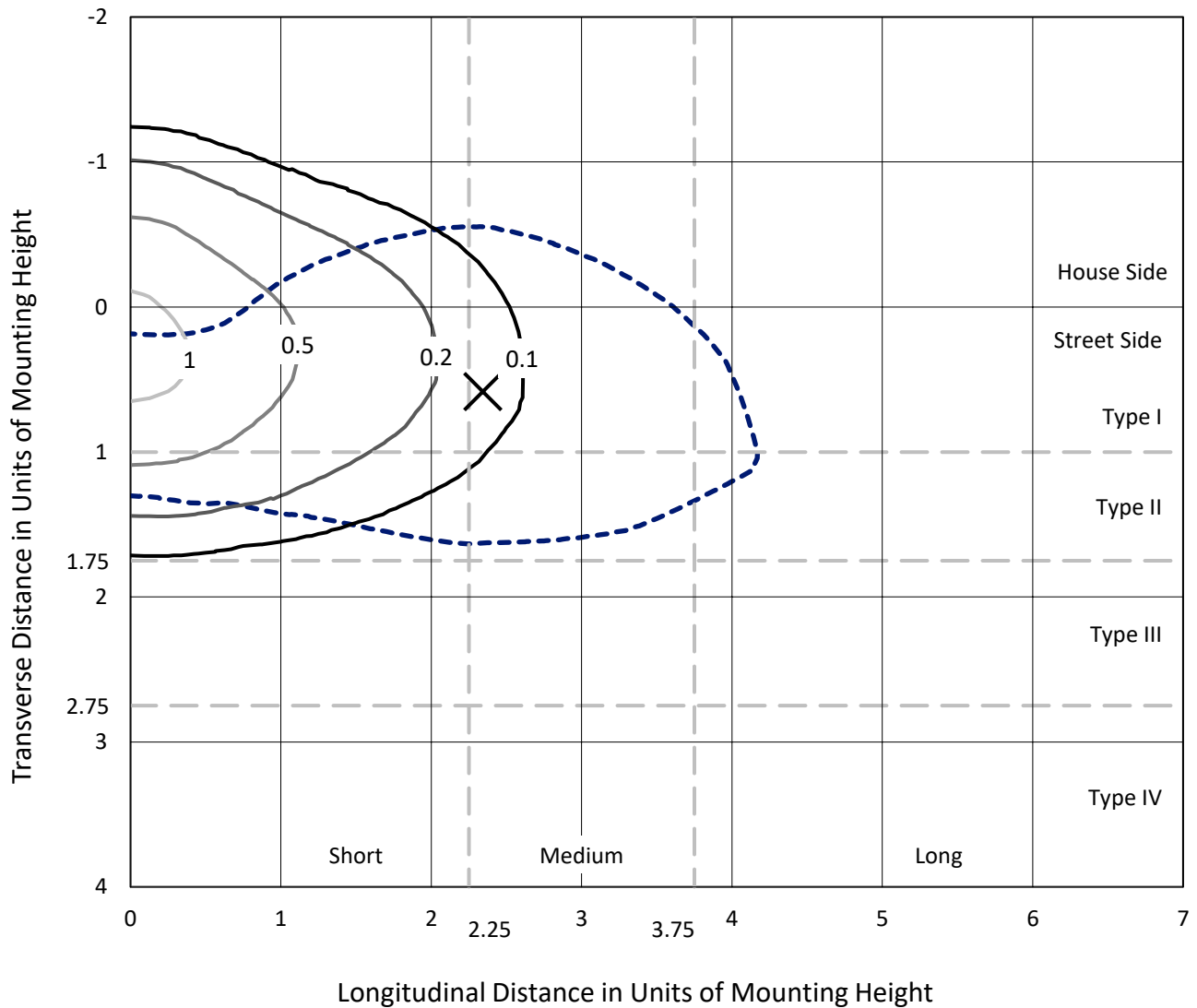
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

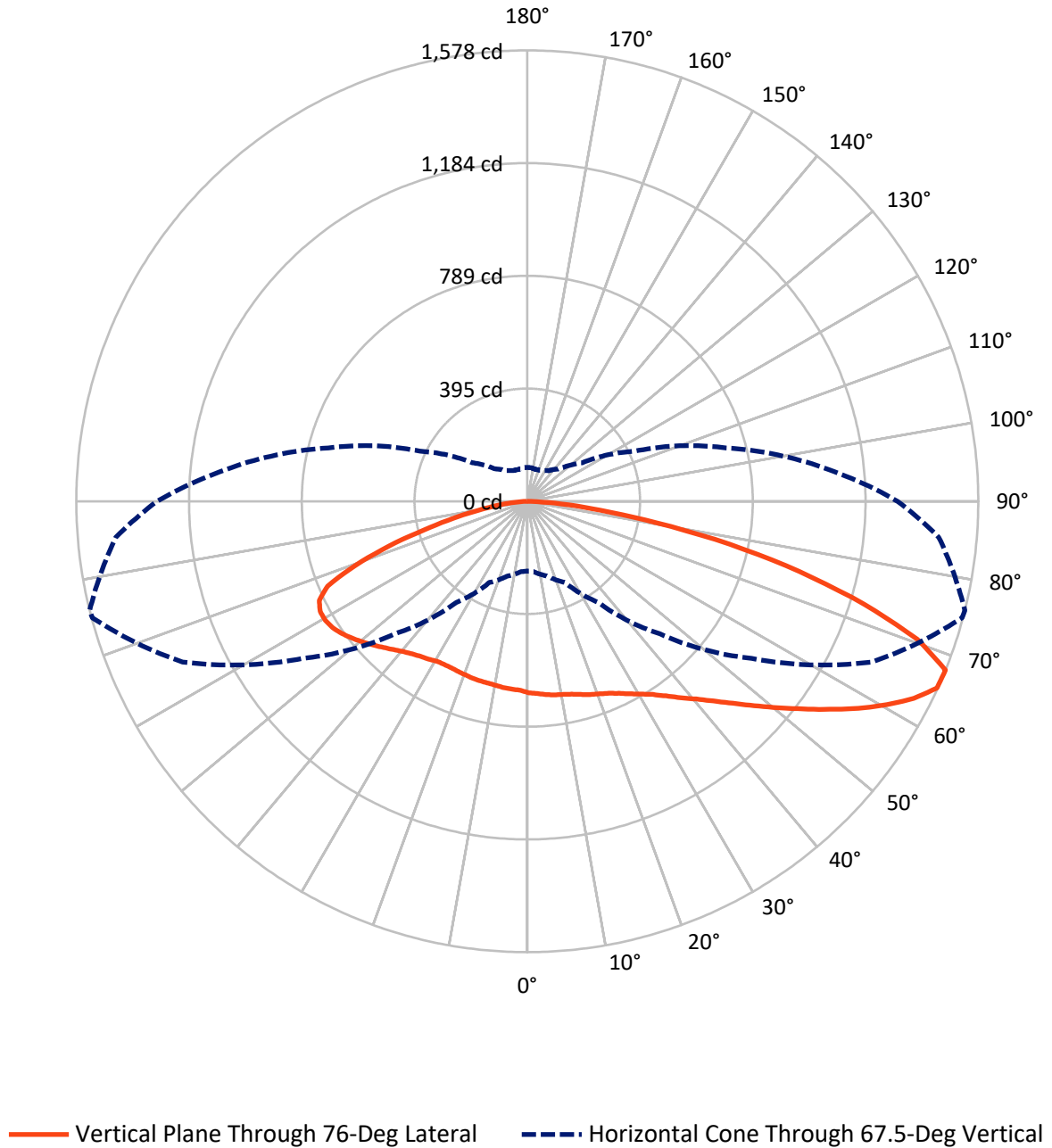
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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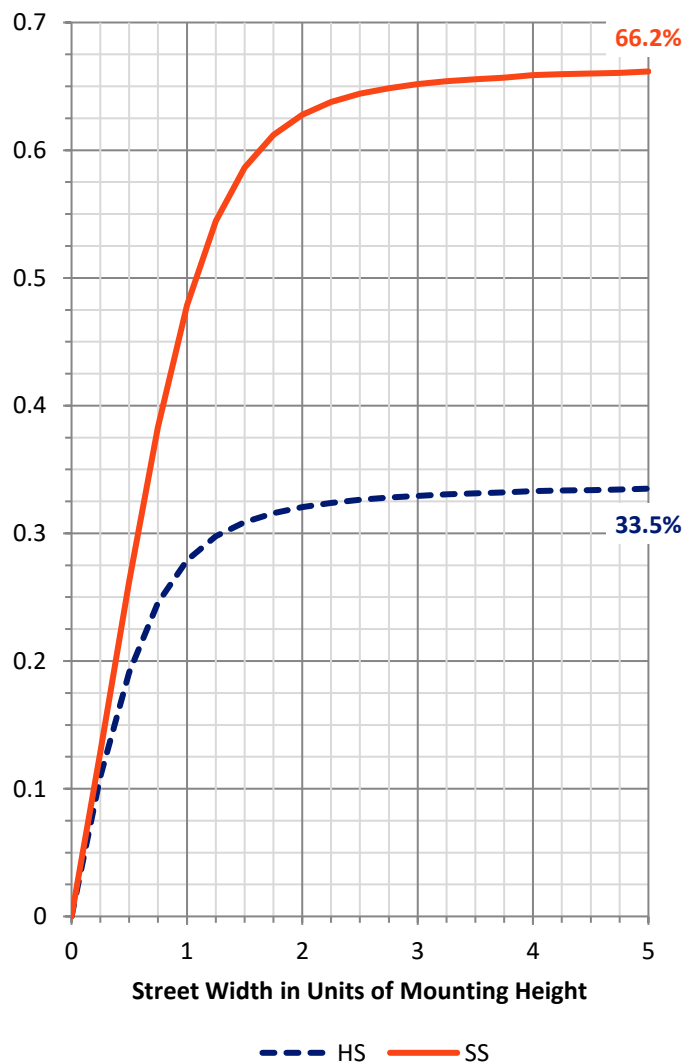
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1121.8	0.0	1121.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	2198.2	0.0	2198.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	3320.0	0.0	3320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	1.9
10°-20°	197.7	6.0
20°-30°	335.9	10.1
30°-40°	477.9	14.4
40°-50°	603.6	18.2
50°-60°	653.5	19.7
60°-70°	607.9	18.3
70°-80°	326.5	9.8
80°-90°	52.3	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°	3320.0	100.0
0°-180°	3320.0	100.0

Coefficient of Utilization



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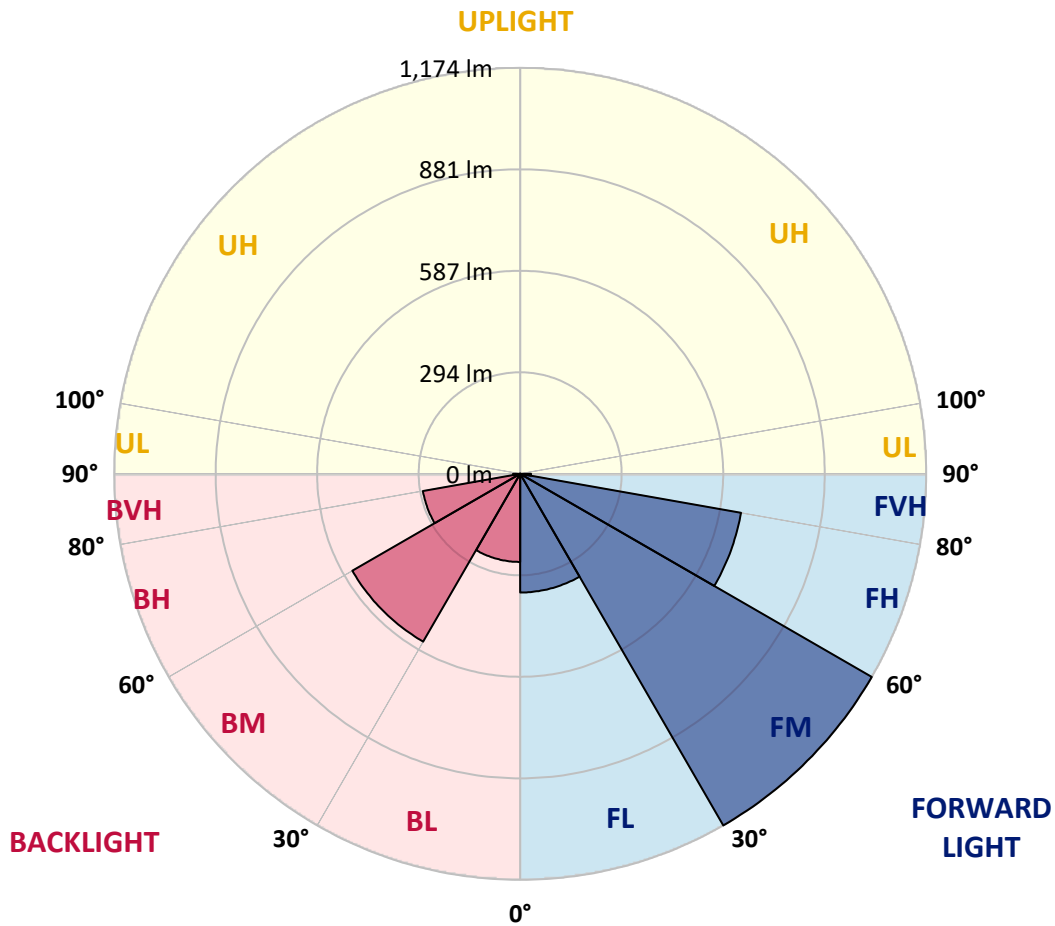
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.3	10.3			
FM (30°-60°)	1174.5	35.4			
FH (60°-80°)	648.7	19.5			G0/660
FVH (80°-90°)	31.6	1.0			G1/100
BL (0°-30°)	254.9	7.7	B1/500		
BM (30°-60°)	560.6	16.9	B1/1000		
BH (60°-80°)	285.6	8.6	B1/500		G1/500
BVH (80°-90°)	20.7	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°	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6
2.5°	691.0	689.7	684.8	685.4	685.4	684.8	677.4	674.3	674.3	673.7	666.9
5°	715.6	713.8	708.2	707.0	704.5	701.5	689.7	683.0	679.9	679.3	670.0
7.5°	744.6	742.1	735.4	731.7	725.5	717.5	702.7	692.2	684.8	684.2	671.2
10°	773.6	771.1	763.1	756.3	747.7	734.7	715.6	700.2	688.5	687.3	671.9
12.5°	808.1	805.6	795.8	787.1	774.2	756.9	731.7	710.7	694.7	692.8	673.7
15°	844.5	840.8	830.9	821.0	805.0	782.8	752.6	724.9	704.5	701.5	679.3
17.5°	874.7	869.7	861.7	851.9	834.0	808.1	773.6	739.1	713.8	711.3	684.8
20°	900.5	896.8	888.2	879.0	859.9	831.5	793.3	753.2	722.4	719.3	689.1
22.5°	925.2	920.3	915.3	908.6	887.6	856.2	816.1	770.5	733.5	729.8	694.7
25°	953.6	948.0	946.2	942.5	917.8	885.8	843.8	792.1	748.9	744.6	704.5
27.5°	988.7	982.5	978.8	978.8	949.2	916.0	873.4	817.3	766.8	763.1	716.9
30°	1025.7	1018.3	1012.7	1012.7	979.4	946.2	902.4	842.6	787.1	782.8	732.9
32.5°	1058.3	1050.9	1044.8	1044.2	1009.6	976.4	932.6	870.3	811.8	806.2	752.6
35°	1083.6	1076.8	1071.3	1072.5	1039.9	1007.2	966.5	907.3	842.6	836.4	778.5
37.5°	1099.0	1096.6	1093.5	1097.8	1067.6	1036.8	1001.6	943.1	877.7	872.2	810.6
40°	1107.0	1105.2	1117.5	1123.1	1091.0	1063.3	1036.8	980.1	916.0	909.8	847.5
42.5°	1118.7	1134.2	1139.1	1137.9	1108.3	1083.6	1068.8	1020.1	961.0	955.4	891.9
45°	1076.8	1073.1	1100.3	1115.1	1109.5	1096.6	1099.0	1068.2	1013.3	1007.8	943.1
47.5°	1020.7	1015.8	1031.2	1067.6	1089.2	1101.5	1126.1	1118.1	1073.8	1068.8	1002.9
50°	902.4	909.2	966.5	1015.2	1057.7	1100.3	1149.0	1171.8	1140.3	1135.4	1067.0
52.5°	771.1	777.9	837.7	949.9	1019.5	1091.0	1165.6	1225.4	1212.4	1206.9	1135.4
55°	675.6	690.4	758.2	839.5	965.3	1062.0	1175.5	1280.2	1290.1	1285.2	1210.0
57.5°	580.6	591.7	642.9	715.0	891.3	1011.5	1174.8	1331.4	1371.5	1366.5	1285.8
60°	469.1	483.3	523.9	601.6	792.7	951.1	1157.6	1371.5	1449.8	1446.1	1359.1
62.5°	392.6	397.0	425.9	493.1	665.7	874.7	1118.7	1393.0	1520.6	1518.2	1425.1
65°	316.2	316.8	343.3	399.4	543.0	779.7	1052.8	1385.0	1574.3	1575.5	1472.6
67.5°	244.1	247.2	271.2	313.7	431.5	656.5	958.5	1330.8	1574.9	1578.0	1445.4
70°	168.9	171.4	207.7	249.0	333.5	523.3	830.9	1187.2	1445.4	1447.9	1295.7
72.5°	119.0	120.2	159.0	199.1	260.7	394.5	626.9	981.9	1232.2	1234.0	1089.8
75°	88.8	90.0	112.2	151.0	199.7	273.1	428.4	752.0	984.4	984.4	860.5
77.5°	62.9	63.5	72.7	104.2	133.1	184.3	257.7	492.5	722.4	723.6	626.9
80°	42.5	43.1	47.5	70.3	83.2	99.9	139.9	258.3	455.5	457.4	398.2
82.5°	22.2	23.4	26.5	35.8	41.9	55.5	72.1	131.3	252.1	257.0	239.2
85°	8.6	8.6	9.9	11.7	15.4	21.6	33.3	49.9	114.0	117.7	105.4
87.5°	3.1	3.1	3.7	3.7	4.3	4.9	5.5	7.4	12.9	12.9	12.3
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°	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6
2.5°	664.5	664.5	661.4	662.6	662.0	660.8	659.5	661.4	659.5	655.2	654.6
5°	665.7	664.5	659.5	658.9	657.1	654.6	651.5	652.8	649.7	646.0	645.4
7.5°	666.3	663.9	657.1	654.6	650.9	646.0	641.0	641.0	636.7	633.0	632.4
10°	665.1	662.0	652.8	647.8	641.0	633.6	626.9	625.0	620.1	615.8	615.8
12.5°	665.7	661.4	649.7	641.7	632.4	623.2	614.5	612.1	607.8	603.4	602.8
15°	669.4	663.2	648.4	638.0	624.4	613.9	604.7	602.8	599.1	596.0	596.0
17.5°	673.1	665.1	646.6	631.8	615.2	603.4	594.8	594.8	592.4	590.5	590.5
20°	674.9	665.7	642.9	623.2	604.1	591.7	583.7	585.0	584.3	583.7	583.7
22.5°	679.3	666.9	639.8	615.2	592.4	579.4	572.0	573.9	573.2	573.2	573.9
25°	686.0	670.0	637.3	607.8	581.3	567.1	559.1	560.3	560.3	560.3	560.3
27.5°	695.3	676.2	636.7	601.0	570.2	554.1	544.3	544.3	541.8	542.4	543.0
30°	709.5	687.9	638.0	594.8	558.4	538.1	526.4	524.5	523.9	525.2	525.8
32.5°	726.7	703.9	645.4	590.5	546.1	520.2	505.4	504.8	503.0	503.0	503.0
35°	748.3	719.3	652.1	589.9	533.8	501.1	485.1	483.3	478.9	477.1	477.1
37.5°	776.0	743.4	660.2	585.6	523.3	482.6	463.5	457.4	452.4	451.8	451.8
40°	809.9	770.5	671.9	580.6	512.2	463.5	438.3	427.8	428.4	430.9	430.9
42.5°	850.0	803.8	686.7	578.2	496.2	443.8	408.7	396.3	400.7	403.1	403.7
45°	896.8	843.2	703.3	575.1	481.4	421.6	377.2	361.8	363.7	364.3	364.9
47.5°	951.1	887.0	720.6	572.6	464.8	393.9	342.7	322.4	321.8	318.1	319.3
50°	1007.8	933.2	738.4	568.3	444.4	361.2	306.3	282.3	277.4	271.8	272.4
52.5°	1068.2	980.7	755.1	561.5	419.1	327.9	271.8	245.9	236.1	229.9	231.1
55°	1134.8	1029.4	771.1	551.1	392.6	294.6	241.0	214.5	202.2	197.2	197.9
57.5°	1195.8	1076.2	782.8	538.1	363.7	264.4	213.9	188.0	180.0	179.4	180.0
60°	1255.0	1115.7	787.7	520.2	334.1	236.7	188.6	168.9	163.3	166.4	167.0
62.5°	1304.9	1140.9	785.3	496.2	303.9	210.2	168.3	154.1	150.4	156.6	157.2
65°	1333.9	1149.0	768.0	461.7	271.2	184.3	149.2	133.8	131.9	135.6	137.5
67.5°	1295.7	1099.0	721.2	414.2	234.8	160.3	130.7	118.3	115.3	118.3	118.3
70°	1148.3	952.3	610.2	339.0	194.8	136.8	113.4	104.8	102.3	104.8	104.2
72.5°	956.6	792.1	480.8	264.4	153.5	115.3	98.6	90.6	88.1	85.7	84.4
75°	742.1	601.6	348.9	194.2	115.9	92.5	82.6	75.2	69.0	71.5	70.3
77.5°	543.7	422.2	247.2	134.4	83.2	71.5	64.7	59.2	54.9	59.8	59.2
80°	350.1	273.1	165.2	90.0	57.3	49.9	47.5	44.4	48.7	63.5	64.7
82.5°	213.9	173.2	98.6	58.6	37.6	33.3	30.8	30.8	49.9	54.9	55.5
85°	95.5	91.8	53.6	30.2	21.0	19.1	17.3	22.2	20.3	14.8	15.4
87.5°	15.4	16.0	11.7	10.5	8.0	8.0	6.2	4.3	3.1	1.8	1.8
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)