

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: P798596

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

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798596
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: ARCH1-20-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

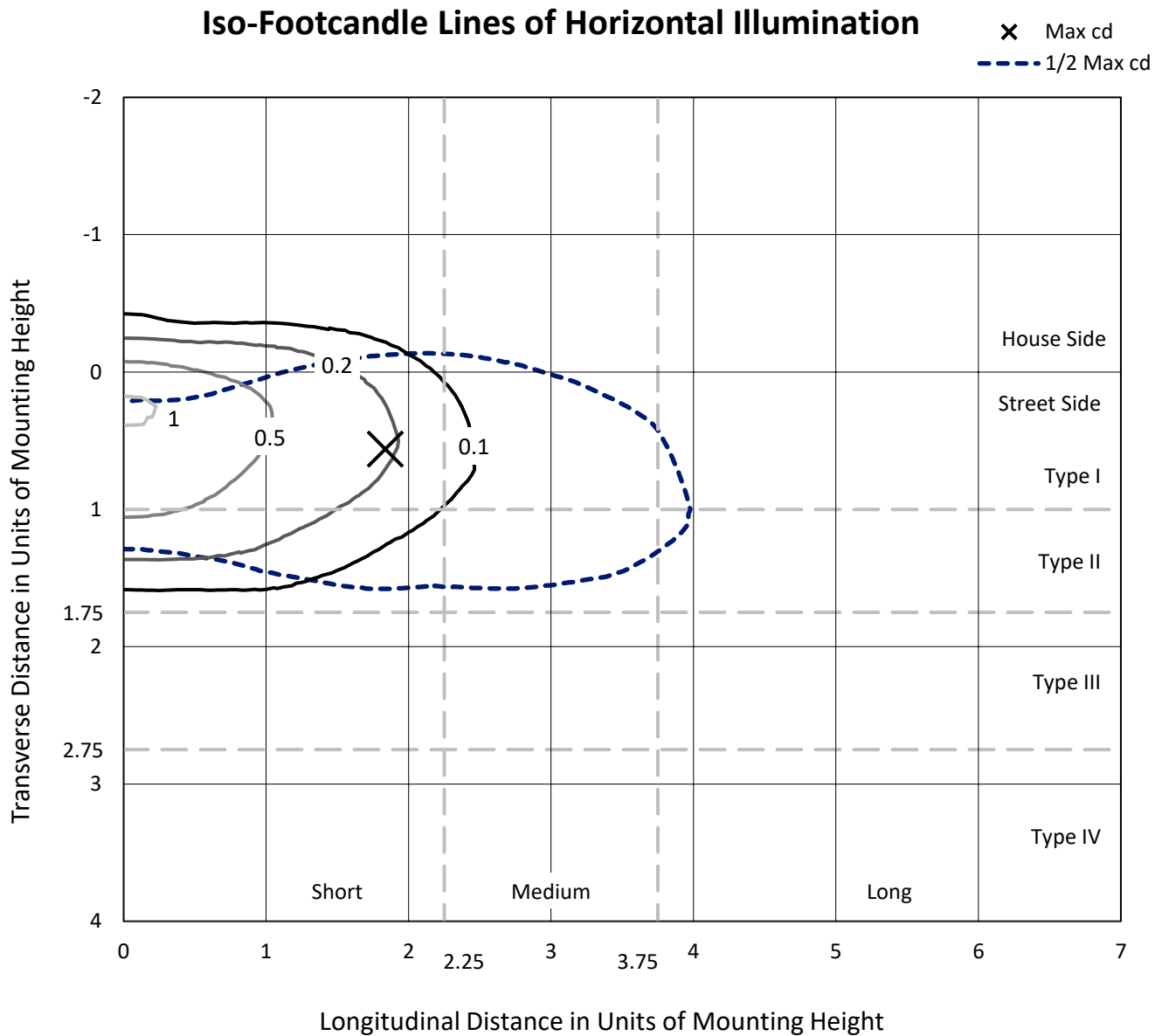
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2232 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - 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

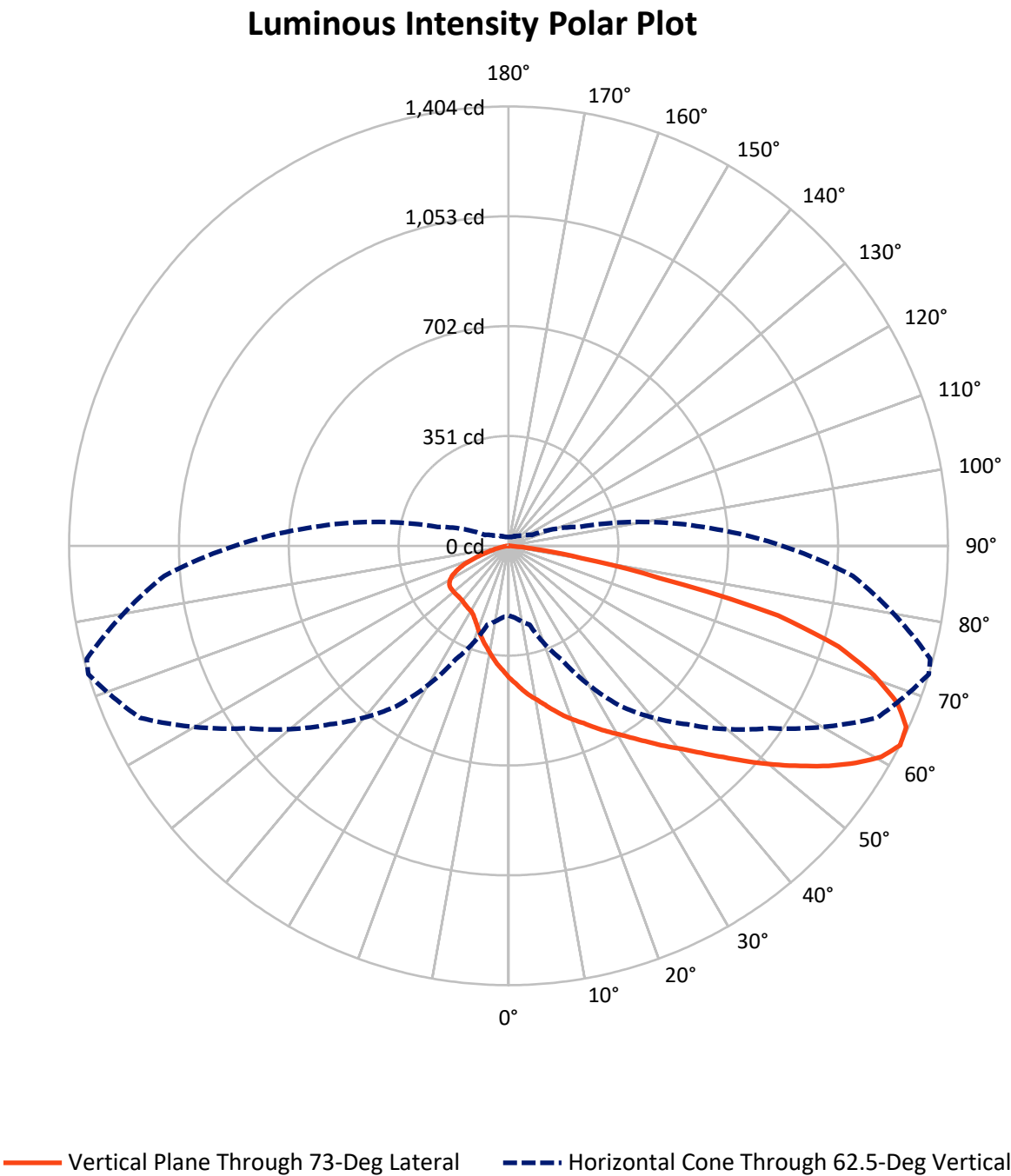


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Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type II - Short - N/A

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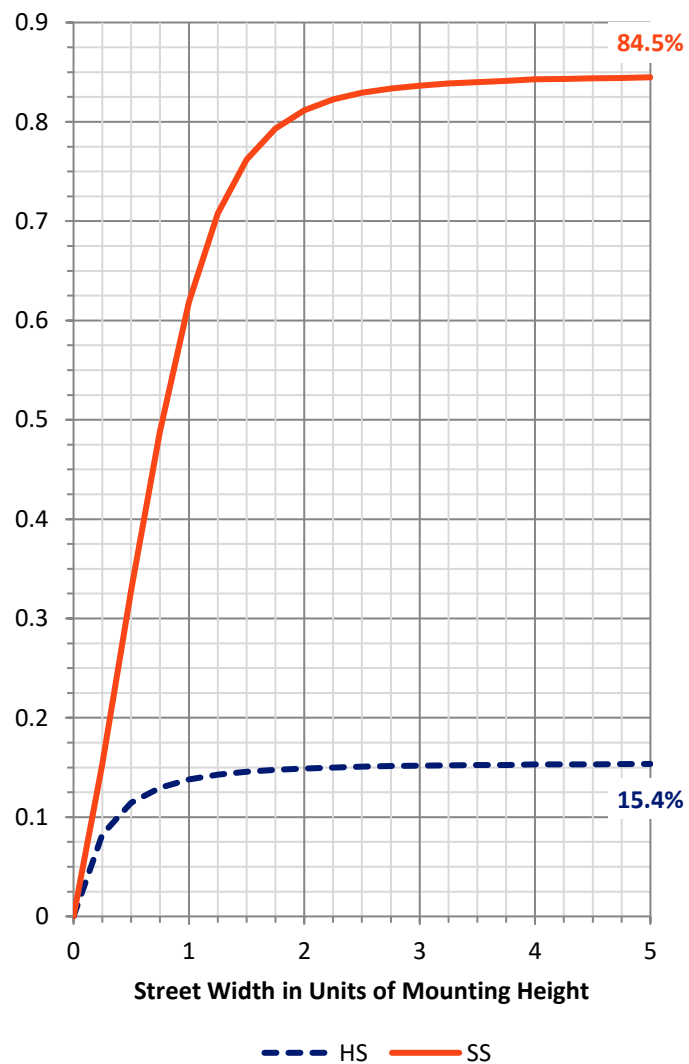
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	346.0	0.0	346.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	1886.0	0.0	1886.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	2232.0	0.0	2232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	1.8
10°-20°	123.2	5.5
20°-30°	205.1	9.2
30°-40°	309.4	13.9
40°-50°	432.5	19.4
50°-60°	477.7	21.4
60°-70°	416.2	18.6
70°-80°	210.2	9.4
80°-90°	16.9	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°	2232.0	100.0
0°-180°	2232.0	100.0

Coefficient of Utilization



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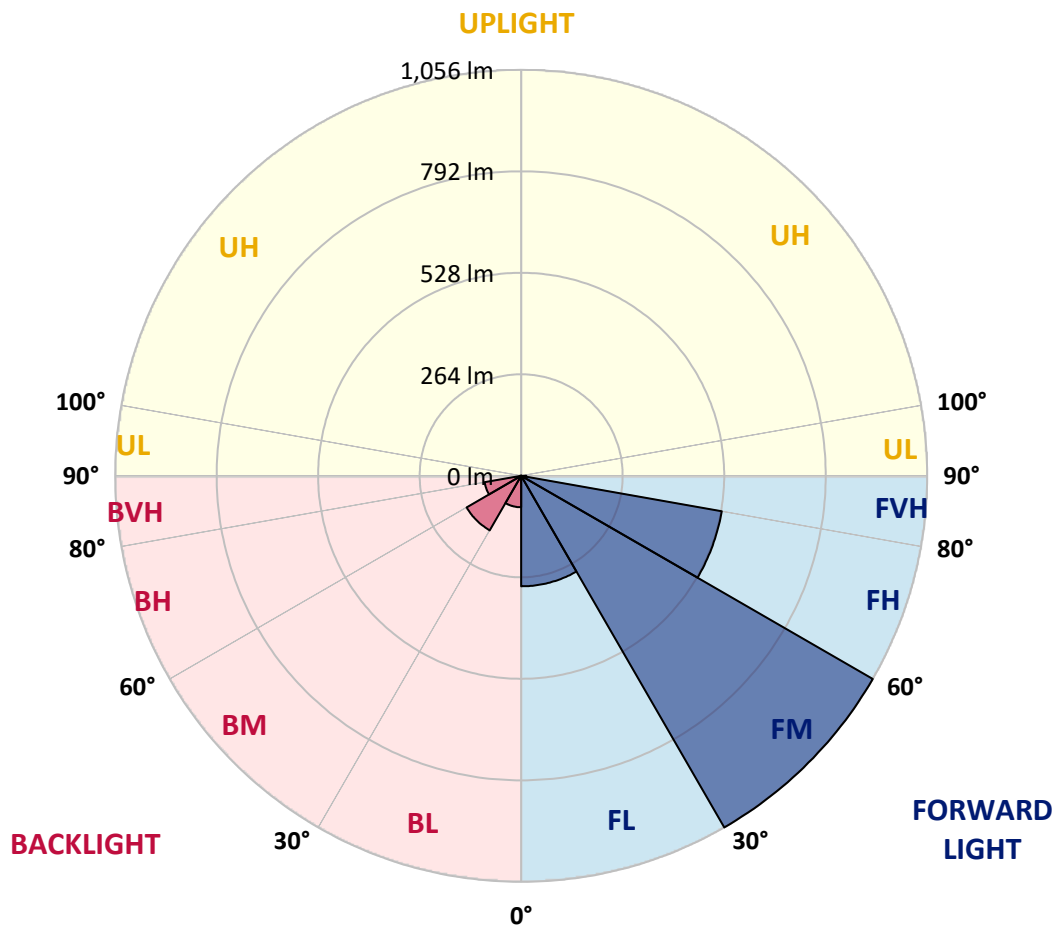
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.3	12.9			
FM	(30°-60°)	1055.8	47.3			
FH	(60°-80°)	529.8	23.7			G0/660
FVH	(80°-90°)	13.1	0.6			G1/100
BL	(0°-30°)	81.8	3.7	B0/110		
BM	(30°-60°)	163.8	7.3	B0/220		
BH	(60°-80°)	96.6	4.3	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6
2.5°	481.0	486.3	483.4	485.4	475.6	469.3	462.0	447.9	440.1	439.2	429.9
5°	551.5	557.4	552.5	551.0	534.0	519.4	502.9	478.1	461.5	458.6	438.2
7.5°	622.0	627.4	621.5	617.2	594.3	568.5	544.2	507.7	482.0	477.1	445.0
10°	671.6	676.5	672.1	667.8	643.9	617.7	583.1	535.5	500.4	492.7	449.4
12.5°	709.1	712.0	710.1	706.2	683.8	655.6	622.5	566.6	521.4	511.6	456.2
15°	739.7	744.6	742.2	739.2	717.8	689.6	658.0	599.2	545.7	533.5	466.4
17.5°	760.2	763.6	764.0	764.0	745.1	717.4	686.7	628.8	570.0	554.4	476.1
20°	769.4	773.3	775.7	779.6	764.0	740.2	709.1	654.1	592.9	575.3	485.4
22.5°	773.8	777.2	783.5	792.3	779.6	759.7	731.0	677.5	615.7	597.2	496.1
25°	777.2	781.6	790.8	807.3	798.6	781.6	756.8	704.2	642.9	624.0	511.6
27.5°	786.4	791.8	800.5	820.5	809.8	801.5	784.0	732.9	671.6	652.2	530.6
30°	818.5	822.9	822.4	835.1	821.9	819.5	807.3	760.6	699.4	679.9	553.0
32.5°	876.9	881.3	870.6	865.7	837.0	837.5	832.6	790.3	732.4	712.5	578.8
35°	939.6	944.5	930.4	922.1	874.0	859.9	862.3	827.3	769.4	749.5	610.8
37.5°	995.5	1001.4	989.2	977.1	928.4	895.8	895.4	868.6	811.7	791.3	646.4
40°	1026.2	1033.0	1040.3	1033.5	982.4	946.4	930.9	910.9	853.5	832.6	684.8
42.5°	1040.8	1059.7	1072.9	1068.5	1026.7	990.2	971.7	955.2	904.6	884.2	730.5
45°	999.9	1000.4	1028.1	1052.0	1044.2	1019.9	1016.5	1004.8	963.0	943.5	782.0
47.5°	948.9	945.0	964.4	1006.7	1028.6	1034.9	1054.9	1059.7	1029.6	1010.1	834.6
50°	826.3	828.7	892.0	952.8	995.5	1036.4	1082.1	1116.2	1098.2	1079.7	890.0
52.5°	672.1	678.0	750.4	884.2	951.8	1021.8	1098.2	1172.6	1168.2	1150.7	945.5
55°	538.9	548.1	625.0	769.9	895.8	989.2	1105.0	1224.1	1240.7	1224.6	999.9
57.5°	411.9	421.7	486.3	635.2	824.4	936.2	1100.1	1269.4	1308.3	1298.1	1050.0
60°	310.3	320.0	361.4	515.0	734.9	876.9	1075.8	1299.0	1369.1	1358.4	1086.5
62.5°	222.3	230.0	260.7	400.7	625.9	806.4	1016.0	1299.5	1403.6	1394.8	1104.0
65°	160.0	160.0	184.8	286.0	523.8	721.7	925.5	1239.7	1396.3	1393.9	1091.8
67.5°	115.3	116.2	136.2	199.9	417.8	619.1	808.3	1133.2	1339.9	1352.0	1048.1
70°	81.7	84.1	93.4	139.6	315.6	488.8	682.8	993.6	1238.2	1259.6	963.4
72.5°	63.2	64.7	71.0	97.3	230.5	363.3	544.2	838.0	1102.5	1126.9	848.2
75°	48.6	50.1	55.0	71.5	165.4	254.8	386.6	650.2	889.0	932.3	681.4
77.5°	35.5	37.4	40.9	52.0	96.3	162.0	234.4	365.7	490.7	511.1	357.0
80°	16.5	19.0	23.8	33.6	52.0	76.4	83.2	141.0	235.9	246.6	193.6
82.5°	9.2	11.7	13.6	20.4	26.3	27.2	28.2	35.5	89.0	98.2	81.2
85°	4.4	5.8	6.3	8.8	8.8	7.8	9.2	6.8	14.6	17.5	17.0
87.5°	0.0	0.5	1.0	2.4	1.9	1.5	1.5	1.5	1.5	1.9	1.5
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°	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6	422.6
2.5°	425.6	419.2	404.6	392.0	383.7	376.4	366.7	362.3	354.5	356.0	351.6
5°	428.0	416.3	390.5	366.7	349.2	333.6	316.6	306.9	296.2	295.2	291.8
7.5°	429.4	411.4	374.5	340.9	314.2	290.3	267.5	254.8	241.7	238.8	235.9
10°	428.0	404.2	358.0	314.2	278.7	249.0	223.2	207.2	193.6	190.2	187.2
12.5°	429.4	400.3	342.4	289.4	247.1	213.5	184.3	167.8	155.1	151.7	149.8
15°	432.8	397.8	329.3	267.0	218.9	181.4	152.7	138.6	128.4	125.0	124.0
17.5°	435.8	395.4	315.2	245.1	190.6	153.2	128.4	116.7	108.0	104.6	103.6
20°	439.7	392.0	301.0	224.2	165.8	130.8	108.9	98.7	91.9	89.5	89.0
22.5°	443.1	389.6	287.9	203.3	143.0	112.8	94.4	86.1	81.2	78.8	78.8
25°	451.8	390.5	276.7	183.8	126.0	98.7	83.2	76.8	73.0	71.5	71.5
27.5°	462.0	394.4	268.0	167.3	111.4	88.0	75.4	70.0	68.1	66.1	66.6
30°	476.6	402.2	262.1	153.7	100.7	79.8	69.1	65.2	63.2	62.7	62.7
32.5°	495.1	414.9	261.7	144.9	92.9	73.4	64.7	61.3	60.3	59.8	59.8
35°	517.0	426.0	258.7	141.0	88.0	69.1	61.3	58.8	58.4	58.4	58.4
37.5°	543.2	444.5	256.8	135.7	85.6	66.6	58.8	56.9	56.9	56.9	56.9
40°	570.5	459.6	253.9	130.8	84.6	65.2	57.4	55.0	55.0	55.0	55.0
42.5°	603.1	481.5	252.9	128.4	83.2	64.2	55.4	52.5	53.0	53.0	53.5
45°	642.5	506.3	252.4	126.0	82.7	63.2	53.5	50.1	50.6	50.1	50.1
47.5°	682.3	535.0	253.9	124.5	82.2	62.3	52.0	47.7	47.7	47.2	47.2
50°	724.2	561.2	254.8	123.0	81.2	60.3	49.6	45.7	44.7	43.8	44.3
52.5°	763.6	585.6	255.3	120.6	78.3	57.4	47.7	43.3	41.8	40.4	40.9
55°	803.0	608.9	256.3	117.7	74.4	54.5	45.2	40.9	38.9	37.0	37.0
57.5°	838.5	629.3	253.9	110.4	70.0	51.6	42.8	37.9	35.0	33.1	33.1
60°	862.8	643.9	246.6	99.7	64.2	48.1	40.4	35.0	31.6	30.2	30.2
62.5°	874.4	646.4	233.4	82.2	56.9	44.7	37.4	32.1	29.2	28.2	28.2
65°	863.3	635.7	213.0	61.8	49.1	40.9	34.5	29.7	26.7	24.3	24.3
67.5°	824.4	605.5	184.8	46.7	41.8	37.0	31.6	27.2	23.8	21.9	21.9
70°	746.1	542.8	143.0	37.4	35.5	32.1	28.7	24.3	21.4	19.0	19.0
72.5°	643.4	460.1	100.7	30.2	30.2	27.2	24.3	21.4	18.5	16.5	16.5
75°	493.6	340.4	67.6	24.3	24.8	22.9	19.9	17.5	15.6	14.1	14.1
77.5°	269.4	168.3	41.3	18.0	18.5	17.5	15.6	14.1	13.1	11.7	11.7
80°	130.8	73.9	23.8	12.6	13.1	12.6	11.7	10.2	10.2	9.2	9.2
82.5°	55.0	27.7	12.6	8.8	8.8	7.8	7.3	7.3	7.3	6.8	6.8
85°	13.6	5.3	5.3	4.9	4.9	4.9	4.4	4.4	4.4	3.4	3.9
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.5	0.5	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)