

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: P348976

Luminaire Tested: **ARCH-N-PA1-20-727-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-20-727-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2042 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

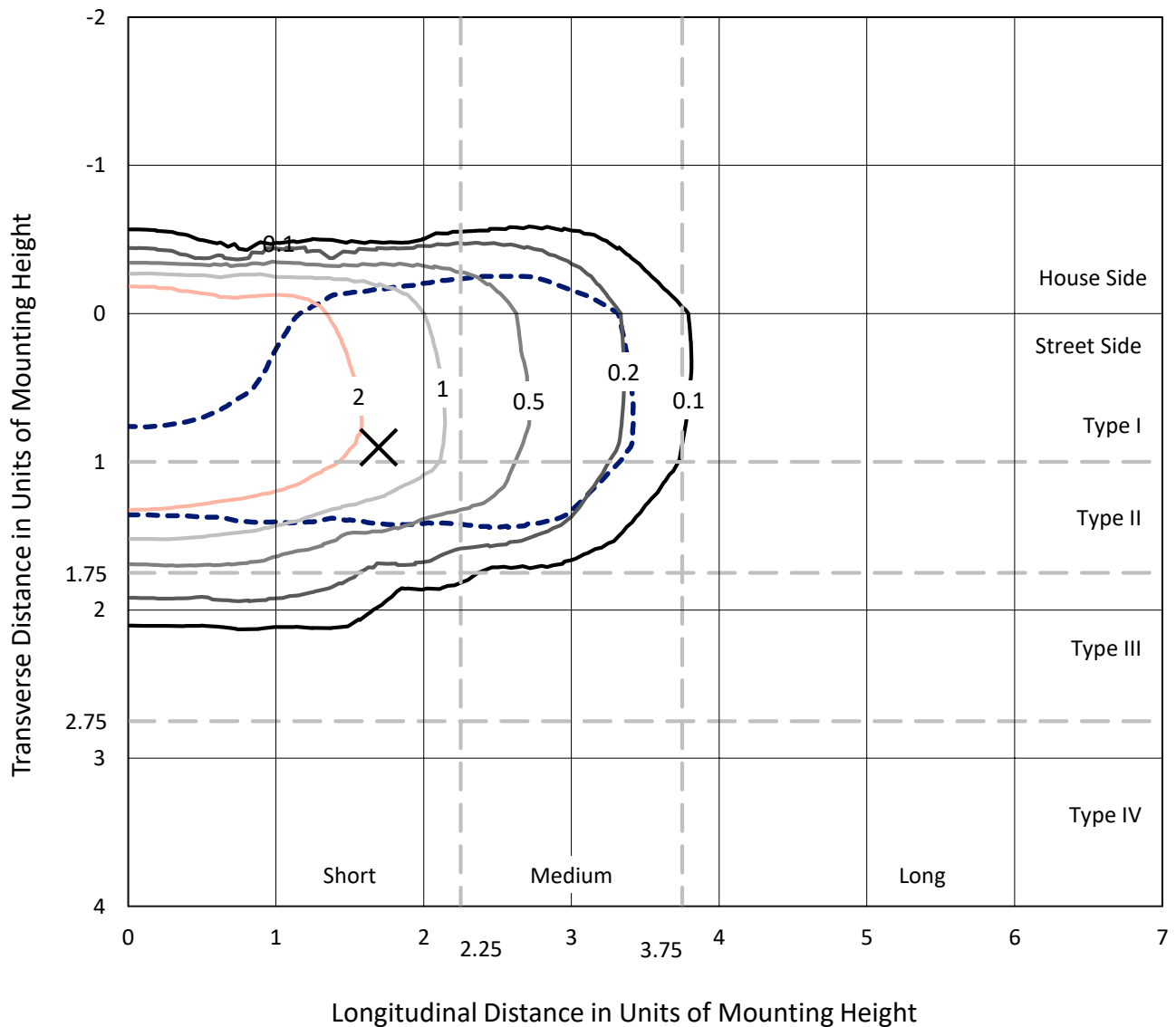
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

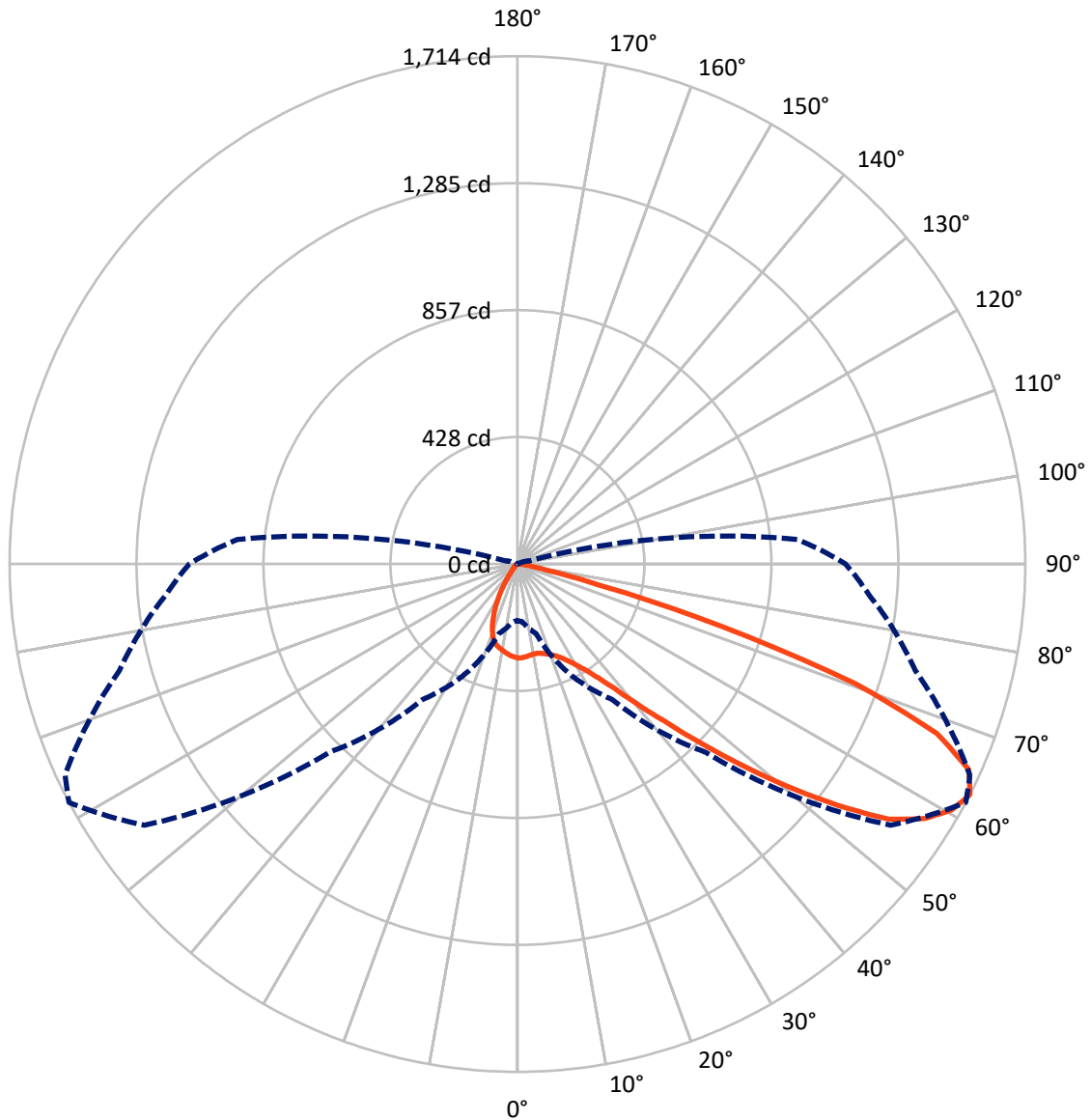
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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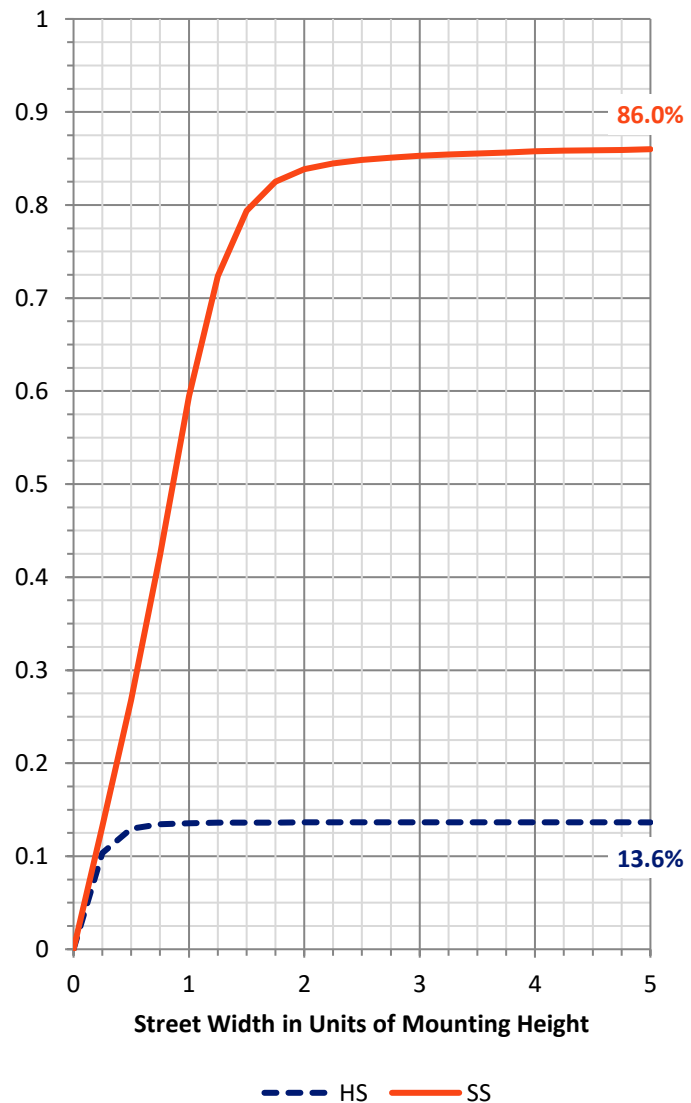
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	281.9	0.0	281.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	1760.1	0.0	1760.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	2042.0	0.0	2042.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	1.4
10°-20°	72.5	3.6
20°-30°	108.3	5.3
30°-40°	206.3	10.1
40°-50°	430.2	21.1
50°-60°	571.6	28.0
60°-70°	445.6	21.8
70°-80°	168.4	8.2
80°-90°	10.1	0.5
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°	2042.0	100.0
0°-180°	2042.0	100.0



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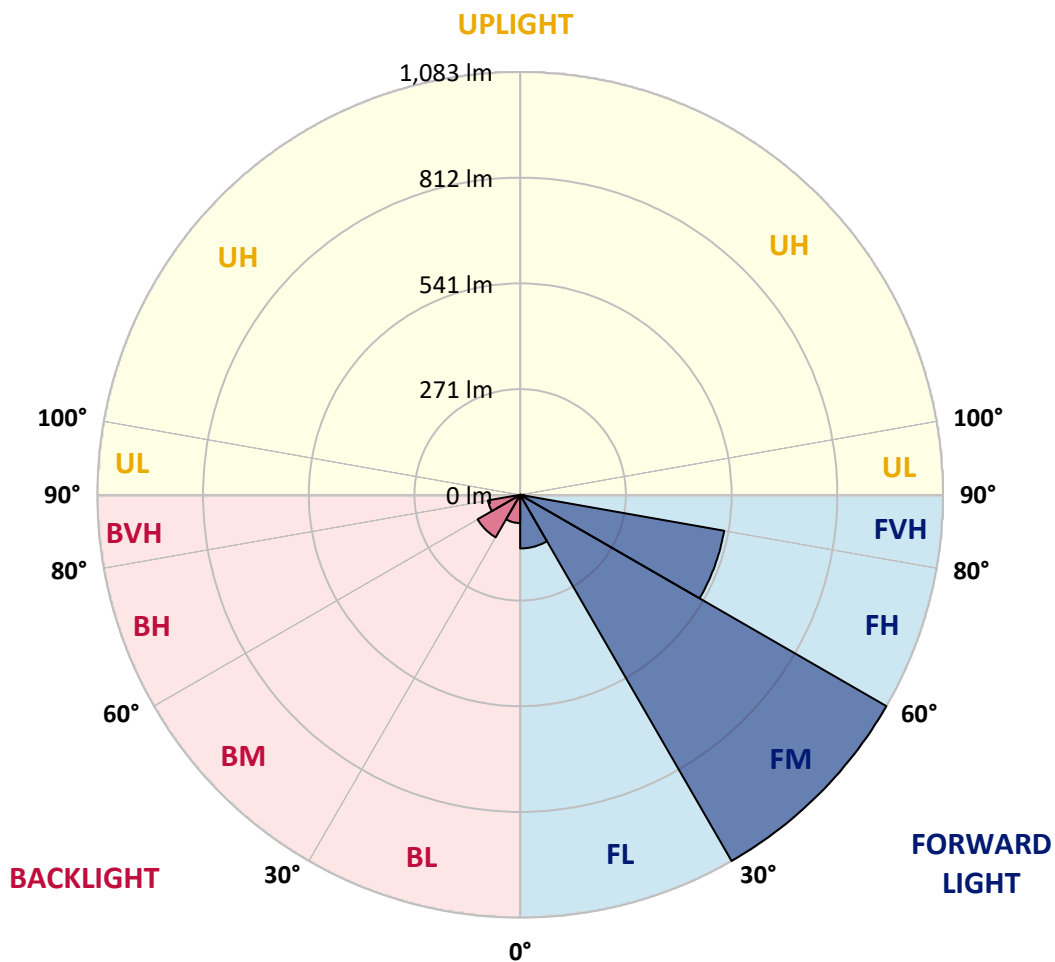
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	137.4	6.7			
FM (30°-60°)	1082.7	53.0			
FH (60°-80°)	530.4	26.0			G0/660
FVH (80°-90°)	9.6	0.5			G0/10
BL (0°-30°)	72.3	3.5	B0/110		
BM (30°-60°)	125.5	6.1	B0/220		
BH (60°-80°)	83.6	4.1	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	317.2	317.2	317.2	317.2	317.2	317.2	317.2	317.2	317.2	317.2	317.2
2.5°	316.2	315.6	317.0	317.0	316.7	317.2	316.7	316.4	316.2	315.6	315.1
5°	307.9	307.9	309.8	310.6	311.4	313.0	313.5	314.0	313.8	314.3	314.6
7.5°	298.3	298.8	301.0	302.0	303.4	306.6	308.4	310.6	310.8	312.7	313.8
10°	290.3	290.8	293.0	294.3	296.2	300.4	304.4	308.2	308.7	312.2	313.0
12.5°	285.0	285.5	287.6	289.5	293.5	298.8	304.4	308.7	310.0	314.3	314.3
15°	282.8	283.4	286.0	289.2	294.6	301.5	308.4	313.0	315.6	319.1	317.5
17.5°	282.0	283.1	287.6	292.4	298.3	305.8	314.3	319.1	321.8	325.5	322.0
20°	284.4	285.8	291.6	298.3	304.4	312.2	321.5	326.8	329.5	331.9	325.2
22.5°	293.0	295.1	300.2	307.6	312.4	321.8	331.1	337.3	340.2	339.9	331.1
25°	313.5	316.2	318.6	322.6	324.7	335.9	345.8	351.9	354.1	353.3	343.1
27.5°	362.1	365.5	357.0	348.2	343.4	353.8	364.7	371.1	373.0	371.4	355.9
30°	444.0	444.2	424.8	397.0	376.5	375.4	388.7	397.3	397.3	394.1	374.1
32.5°	563.2	554.7	530.2	481.1	434.6	410.4	420.5	428.8	428.8	424.8	401.8
35°	713.2	706.8	666.2	607.3	524.6	466.4	464.3	472.3	472.5	471.5	445.3
37.5°	865.8	850.1	816.2	745.5	648.4	552.6	527.0	532.6	536.6	536.0	503.5
40°	1007.8	992.0	963.5	895.4	800.4	679.6	618.2	618.2	618.5	615.8	576.6
42.5°	1119.3	1112.1	1090.7	1043.5	970.1	879.4	741.2	720.9	716.7	714.0	662.5
45°	1191.6	1184.1	1172.6	1162.8	1139.0	1106.5	906.4	853.3	846.3	820.2	757.5
47.5°	1195.6	1184.1	1191.9	1229.2	1282.8	1299.6	1110.2	1007.5	989.1	941.9	852.7
50°	1106.5	1107.5	1137.7	1228.4	1373.3	1469.1	1326.3	1177.2	1148.1	1053.6	936.8
52.5°	942.7	953.3	1000.0	1139.6	1377.6	1577.4	1514.4	1352.2	1294.6	1154.0	996.0
55°	738.0	747.6	823.9	974.9	1273.8	1592.9	1651.3	1519.8	1443.5	1223.9	1049.1
57.5°	521.9	540.0	634.7	773.5	1075.8	1474.7	1688.7	1620.1	1546.2	1291.9	1099.0
60°	317.2	326.3	424.8	586.2	810.8	1227.3	1644.9	1684.1	1624.4	1350.9	1145.7
62.5°	190.8	196.1	243.3	403.7	557.9	898.6	1536.6	1713.5	1684.1	1390.1	1190.5
65°	112.9	116.3	138.5	243.9	371.7	551.2	1302.6	1673.2	1696.9	1424.0	1216.7
67.5°	81.4	82.4	90.4	131.3	249.5	295.4	905.8	1526.4	1615.3	1435.2	1201.2
70°	70.2	71.5	79.2	92.3	176.6	174.2	471.5	1208.1	1369.3	1376.8	1135.8
72.5°	53.1	55.5	68.3	86.7	126.7	123.8	177.7	720.4	929.6	1130.2	979.2
75°	36.0	37.4	50.7	73.6	99.0	92.3	93.1	289.2	454.6	708.7	672.9
77.5°	22.7	23.7	31.0	52.8	84.8	65.1	65.9	102.7	164.1	300.4	288.4
80°	15.5	16.0	18.7	34.2	57.4	56.6	42.4	53.6	61.1	92.6	62.2
82.5°	9.3	9.3	12.3	20.3	34.7	44.8	26.7	29.6	32.6	34.4	14.1
85°	3.2	3.5	7.5	12.5	21.3	22.4	15.2	17.6	18.4	20.0	6.7
87.5°	1.3	1.1	4.0	6.9	9.1	10.4	8.8	8.0	8.8	11.7	2.9
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°	317.2	317.2	317.2	317.2	317.2	317.2	317.2	317.2	317.2	317.2	317.2
2.5°	315.4	314.3	314.3	314.0	312.4	311.6	310.8	308.7	310.0	308.4	307.4
5°	313.8	313.0	311.6	310.3	306.6	303.4	302.0	299.4	299.1	297.0	295.9
7.5°	313.5	311.6	309.5	305.0	299.4	294.3	289.8	285.2	283.4	281.0	279.6
10°	312.2	309.8	305.8	298.6	290.3	282.3	272.1	259.6	250.3	244.9	244.1
12.5°	312.4	309.8	303.6	293.0	282.0	264.4	237.2	208.6	185.2	175.3	173.7
15°	314.6	311.6	302.3	287.9	269.2	230.5	180.6	136.9	106.5	95.5	93.1
17.5°	317.2	312.2	299.4	280.7	244.7	178.8	113.7	71.8	54.7	48.6	47.5
20°	318.8	311.9	294.6	269.7	207.3	119.5	61.9	42.2	37.1	35.8	35.2
22.5°	322.8	312.7	290.6	252.7	160.4	72.0	39.2	32.8	29.9	28.3	28.0
25°	331.1	318.0	290.8	230.5	112.3	43.5	31.8	26.7	24.0	22.4	21.9
27.5°	343.1	327.6	295.9	203.0	69.4	32.8	26.4	21.6	18.7	17.3	17.1
30°	358.3	339.4	301.8	167.3	43.2	27.5	21.3	16.8	14.7	13.9	13.6
32.5°	382.3	359.7	306.8	125.1	29.9	22.7	16.8	13.3	12.0	11.2	11.2
35°	422.1	394.6	315.1	83.8	23.7	18.1	13.6	10.9	9.9	9.3	9.3
37.5°	478.1	444.5	319.1	52.0	19.5	14.1	10.9	9.1	8.3	7.7	7.7
40°	546.4	505.1	313.5	32.3	16.3	11.5	9.1	7.7	6.9	6.7	6.7
42.5°	625.1	574.7	295.9	22.9	13.6	9.3	7.7	6.7	6.1	5.9	5.9
45°	713.2	651.0	264.1	19.2	11.5	8.0	6.7	5.6	5.3	5.1	5.1
47.5°	801.0	728.4	223.1	16.5	9.6	6.7	5.6	4.8	4.5	4.3	4.3
50°	877.5	796.2	179.6	14.4	8.0	5.9	4.8	4.0	3.7	3.5	3.5
52.5°	921.3	836.5	139.0	12.0	6.9	5.1	3.7	3.2	2.9	2.7	2.7
55°	968.5	870.1	103.8	10.1	5.6	4.3	2.9	2.4	2.1	1.9	1.9
57.5°	1012.6	900.2	77.1	8.3	4.8	3.2	2.4	1.9	1.6	1.3	1.3
60°	1055.2	925.8	57.1	6.7	4.0	2.7	1.9	1.3	1.1	0.8	0.8
62.5°	1107.3	949.3	41.9	5.3	3.5	1.9	1.3	0.8	0.5	0.3	0.3
65°	1146.0	961.3	31.5	4.0	2.9	1.3	0.8	0.5	0.0	0.0	0.0
67.5°	1145.7	938.1	22.9	2.9	2.1	1.1	0.5	0.0	0.0	0.0	0.0
70°	1092.1	867.7	16.0	2.4	1.6	0.8	0.3	0.0	0.0	0.0	0.0
72.5°	936.5	686.2	10.4	1.6	1.3	0.5	0.3	0.0	0.0	0.0	0.0
75°	632.1	348.5	6.1	1.3	1.1	0.5	0.3	0.0	0.0	0.0	0.0
77.5°	270.3	136.9	3.2	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0
80°	56.6	33.1	1.3	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.6	4.8	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	1.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.5	0.3	0.3	0.0	0.0	0.0	0.0	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)