

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: P348793

Luminaire Tested: **ARCH-N-PA1-19-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-830-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1897 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G0

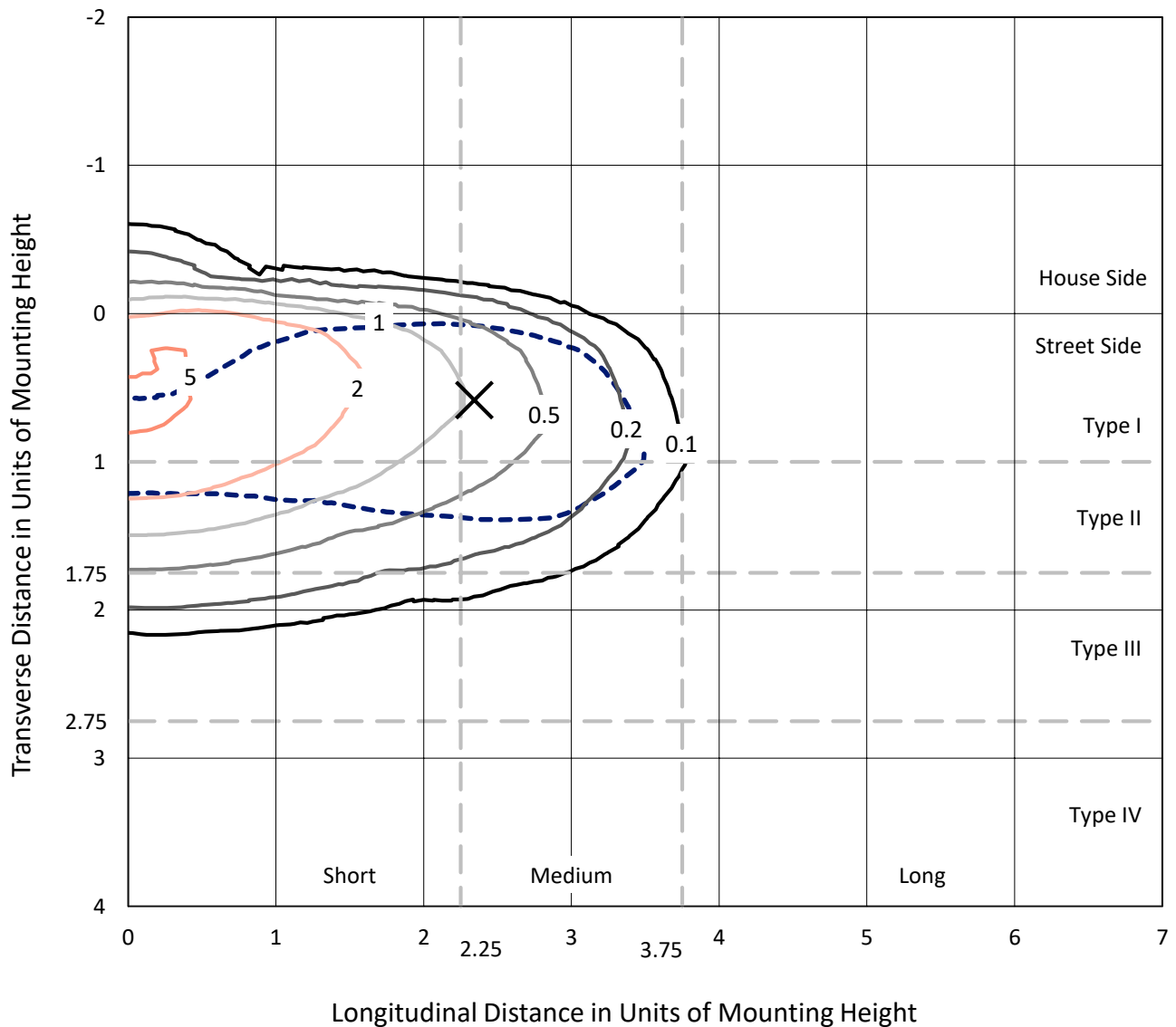
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

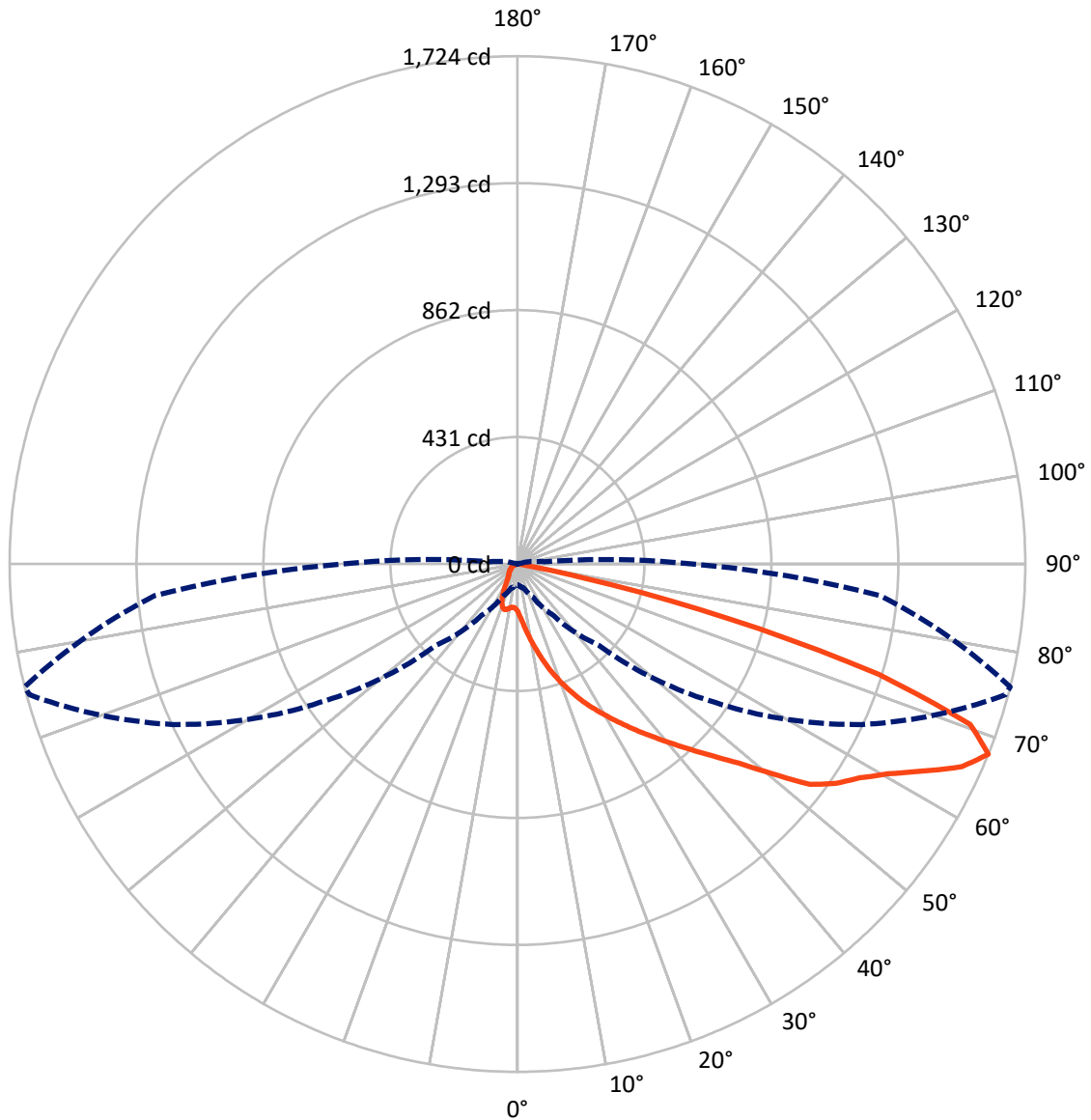
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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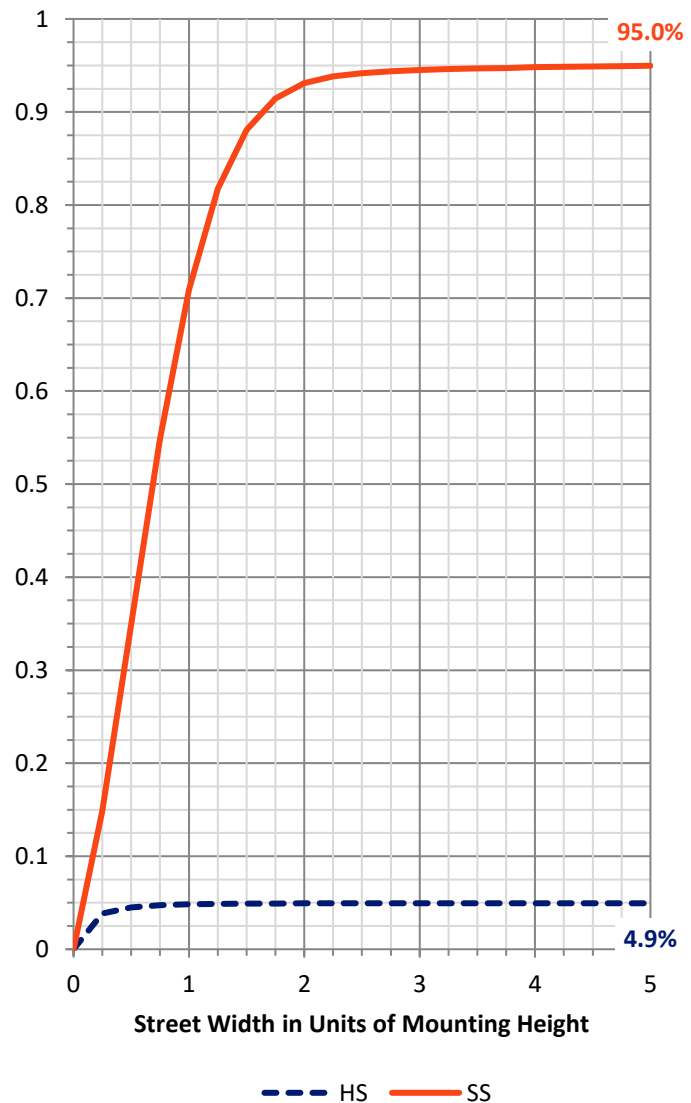
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	94.2	0.0	94.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	1802.8	0.0	1802.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	1897.0	0.0	1897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	1.1
10°-20°	79.3	4.2
20°-30°	161.4	8.5
30°-40°	280.1	14.8
40°-50°	395.8	20.9
50°-60°	448.8	23.7
60°-70°	372.3	19.6
70°-80°	134.9	7.1
80°-90°	4.4	0.2
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°	1897.0	100.0
0°-180°	1897.0	100.0

Coefficient of Utilization



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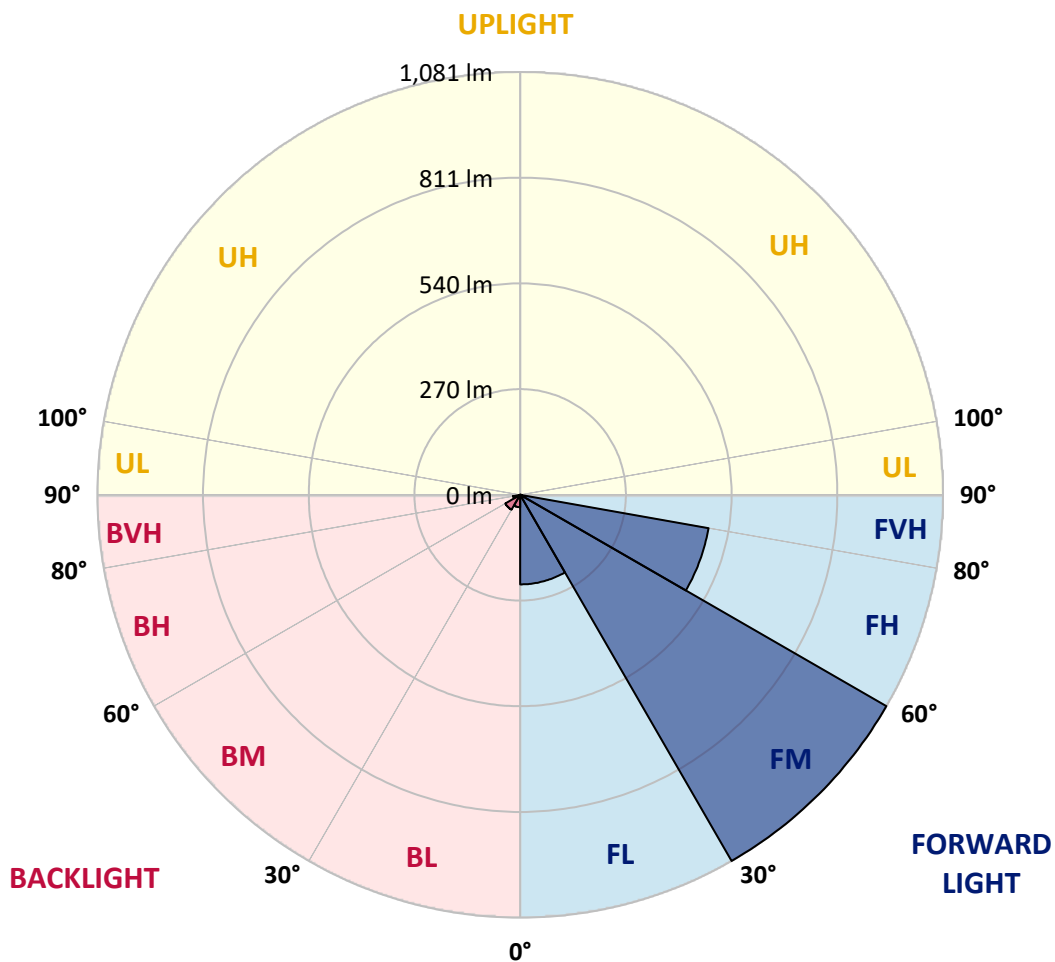
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.0	12.1			
FM	(30°-60°)	1080.7	57.0			
FH	(60°-80°)	488.9	25.8			G0/660
FVH	(80°-90°)	4.2	0.2			G0/10
BL	(0°-30°)	31.8	1.7	B0/110		
BM	(30°-60°)	44.1	2.3	B0/220		
BH	(60°-80°)	18.2	1.0	B0/110		G0/110
BVH	(80°-90°)	0.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9
2.5°	240.2	234.8	236.1	232.6	226.3	213.3	202.2	191.8	179.5	179.1	169.1
5°	323.9	319.3	318.8	311.7	300.2	278.2	256.8	232.3	205.1	203.1	181.7
7.5°	399.9	396.2	394.9	386.5	365.1	343.7	315.8	279.9	237.2	233.6	198.7
10°	458.2	456.5	456.8	450.8	432.6	412.6	376.0	330.2	273.7	268.1	219.2
12.5°	502.5	502.9	505.9	502.2	492.0	477.2	438.0	383.8	314.1	306.4	242.5
15°	535.0	537.0	542.5	547.1	546.3	533.5	497.6	438.2	357.0	348.4	268.6
17.5°	556.0	558.3	566.3	576.4	585.7	582.8	555.2	490.7	400.4	390.5	296.4
20°	574.4	577.2	585.7	599.1	616.5	620.2	602.1	541.7	443.7	431.6	325.2
22.5°	614.4	614.3	619.6	627.4	643.9	653.6	642.1	589.0	486.5	474.0	354.5
25°	686.7	684.0	682.2	676.0	679.7	685.7	679.3	633.2	529.6	516.8	384.3
27.5°	772.7	774.3	759.6	743.0	730.2	724.1	713.6	674.2	571.0	557.0	413.4
30°	863.4	863.9	846.4	825.3	797.1	773.8	755.6	713.3	613.5	598.3	441.6
32.5°	945.2	941.9	924.6	895.9	860.3	834.0	796.4	757.1	658.6	643.8	473.0
35°	1010.0	1006.2	985.1	959.0	922.1	895.6	850.3	800.7	705.9	691.6	504.5
37.5°	1057.4	1052.9	1031.3	1004.3	972.5	957.1	912.9	848.2	757.6	742.2	537.7
40°	1073.8	1069.9	1056.4	1036.7	1011.1	1007.6	979.3	902.8	813.9	797.5	575.3
42.5°	1064.0	1060.2	1055.4	1048.7	1038.1	1041.4	1042.0	965.0	876.4	860.2	616.8
45°	1025.1	1021.7	1026.7	1036.4	1049.6	1066.1	1099.2	1031.9	946.2	929.0	664.7
47.5°	967.9	965.4	979.2	1003.4	1042.1	1087.5	1151.5	1102.3	1024.6	1008.6	724.6
50°	886.4	886.0	913.6	957.9	1017.3	1097.8	1205.5	1182.2	1133.5	1116.6	807.8
52.5°	759.6	760.4	814.7	885.6	973.8	1090.8	1240.2	1285.0	1260.2	1242.6	879.8
55°	638.8	643.8	682.2	784.5	907.2	1064.9	1252.2	1332.9	1330.1	1313.5	919.9
57.5°	520.5	529.6	566.6	662.1	809.8	1005.1	1245.6	1353.7	1382.1	1369.4	972.8
60°	392.3	396.5	439.2	528.5	684.9	896.0	1198.0	1365.0	1453.3	1444.5	1049.5
62.5°	249.6	260.0	297.9	384.0	533.3	744.6	1117.7	1364.8	1542.3	1547.1	1148.5
65°	131.5	143.6	163.7	238.0	366.5	575.4	996.9	1352.0	1651.5	1658.2	1225.9
67.5°	70.9	74.4	85.0	123.5	212.5	389.8	819.5	1288.9	1714.8	1723.7	1236.7
70°	51.9	53.8	57.8	68.3	107.0	226.4	598.0	1145.6	1633.2	1629.9	1098.8
72.5°	39.8	42.8	45.8	50.0	61.5	120.9	372.3	897.1	1303.2	1281.2	821.3
75°	31.4	31.9	36.2	40.0	46.1	68.8	165.3	522.5	795.4	743.4	425.9
77.5°	25.1	25.4	27.9	31.3	37.1	45.2	51.2	205.6	253.9	226.6	92.4
80°	14.9	15.7	20.8	24.1	30.8	28.5	18.7	44.6	39.6	35.9	15.5
82.5°	8.3	9.0	11.7	19.0	21.4	13.6	9.3	12.1	9.3	9.1	4.4
85°	0.0	0.4	7.6	11.8	8.7	3.0	3.9	4.0	2.7	2.6	1.7
87.5°	0.0	0.0	2.3	2.2	0.3	0.5	0.9	1.3	1.1	1.1	0.9
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°	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9	160.9
2.5°	164.1	159.6	151.1	142.8	135.8	130.1	124.9	122.9	121.2	120.9	119.6
5°	171.4	162.3	146.1	132.8	123.9	117.6	112.2	108.9	106.3	105.3	104.4
7.5°	182.4	168.7	145.5	130.2	119.5	108.9	98.9	88.1	81.4	78.8	77.3
10°	195.9	177.2	148.0	129.4	110.8	88.4	71.8	58.1	52.5	50.7	50.2
12.5°	211.6	187.8	152.3	124.8	92.2	62.8	49.5	44.9	43.6	43.1	43.1
15°	229.7	199.3	155.4	111.3	68.2	47.5	42.9	40.7	39.4	38.7	38.7
17.5°	248.1	210.6	153.9	91.8	50.3	42.2	38.8	36.5	34.7	33.9	33.7
20°	266.7	221.1	145.5	68.3	42.6	38.3	34.5	31.9	30.1	29.3	29.2
22.5°	286.0	230.0	130.9	50.1	38.2	34.0	30.3	27.7	25.9	25.3	24.9
25°	304.8	237.2	110.5	40.6	34.2	29.9	26.3	23.9	22.4	21.7	21.6
27.5°	322.3	241.8	86.8	35.8	30.6	26.3	23.0	20.9	19.5	19.0	19.0
30°	338.1	242.2	64.2	32.3	27.4	23.1	20.1	18.2	17.0	16.5	16.4
32.5°	354.1	238.7	46.7	29.2	24.5	20.4	17.5	16.0	15.1	14.7	14.7
35°	369.1	230.7	36.4	26.4	21.7	17.7	15.4	14.3	13.8	13.4	13.4
37.5°	383.8	219.1	30.9	24.0	19.0	15.5	13.5	12.9	12.5	12.1	12.1
40°	398.8	204.6	28.1	21.8	16.9	13.7	12.1	11.5	11.1	10.7	10.6
42.5°	417.2	187.8	26.3	19.7	15.0	12.1	10.6	10.0	9.6	9.3	9.1
45°	438.5	173.3	24.8	17.6	13.4	10.8	9.2	8.6	8.1	7.6	7.6
47.5°	469.1	162.8	22.8	15.4	11.9	9.4	8.0	7.2	6.5	6.1	6.0
50°	508.3	154.2	20.2	13.4	10.4	8.0	6.6	5.7	5.1	4.7	4.7
52.5°	527.7	142.9	17.9	11.6	8.7	6.7	5.4	4.3	4.0	3.6	3.6
55°	535.5	134.2	15.5	9.9	7.2	5.6	4.2	3.3	3.1	2.8	2.7
57.5°	557.5	131.7	13.5	8.4	6.0	4.4	3.2	2.5	2.3	2.0	2.0
60°	592.8	133.0	11.7	7.1	4.8	3.4	2.4	1.9	1.7	1.4	1.4
62.5°	631.0	131.4	9.9	6.2	3.7	2.5	1.7	1.4	1.4	0.8	0.7
65°	638.3	117.0	8.5	5.1	2.9	1.8	1.1	0.9	1.2	0.2	0.0
67.5°	592.4	90.8	7.3	3.9	2.2	1.4	0.8	0.4	1.1	0.0	0.0
70°	473.7	57.7	5.9	2.8	1.7	1.2	0.7	0.2	0.8	0.0	0.0
72.5°	335.0	33.5	4.7	2.0	1.4	0.9	0.5	0.0	0.5	0.0	0.0
75°	169.4	17.9	2.9	1.5	1.1	0.7	0.3	0.0	0.1	0.0	0.0
77.5°	36.7	8.3	1.8	1.1	0.7	0.4	0.2	0.0	0.0	0.0	0.0
80°	8.0	3.7	1.2	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	1.9	0.6	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	1.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.3	0.1	0.1	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)