

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: P348806

Luminaire Tested: **ARCH-N-PA1-10-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-727-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1320 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 14
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

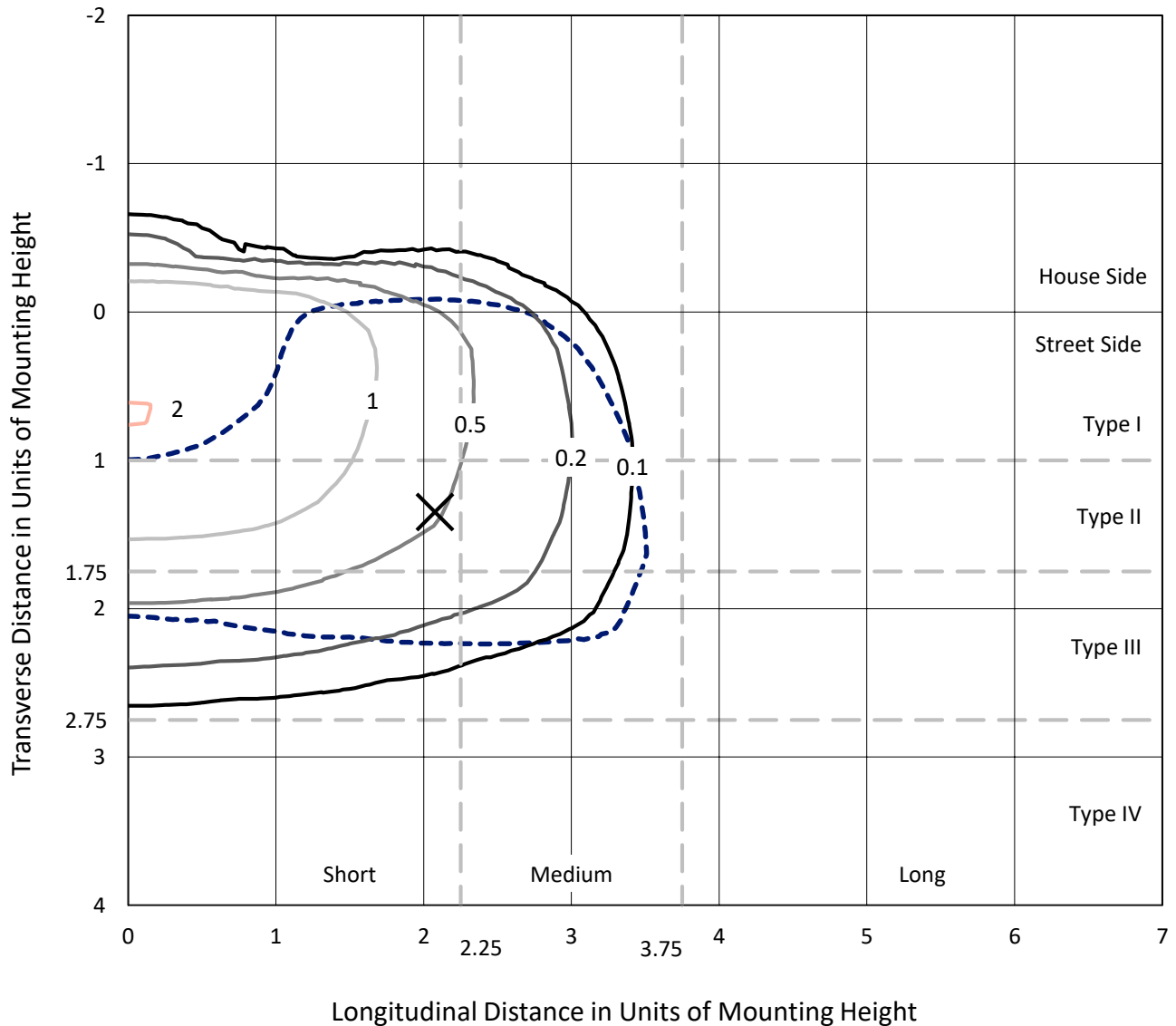


REPORT NUMBER: P348806

CATALOG NUMBER: ARCH-N-PA1-10-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

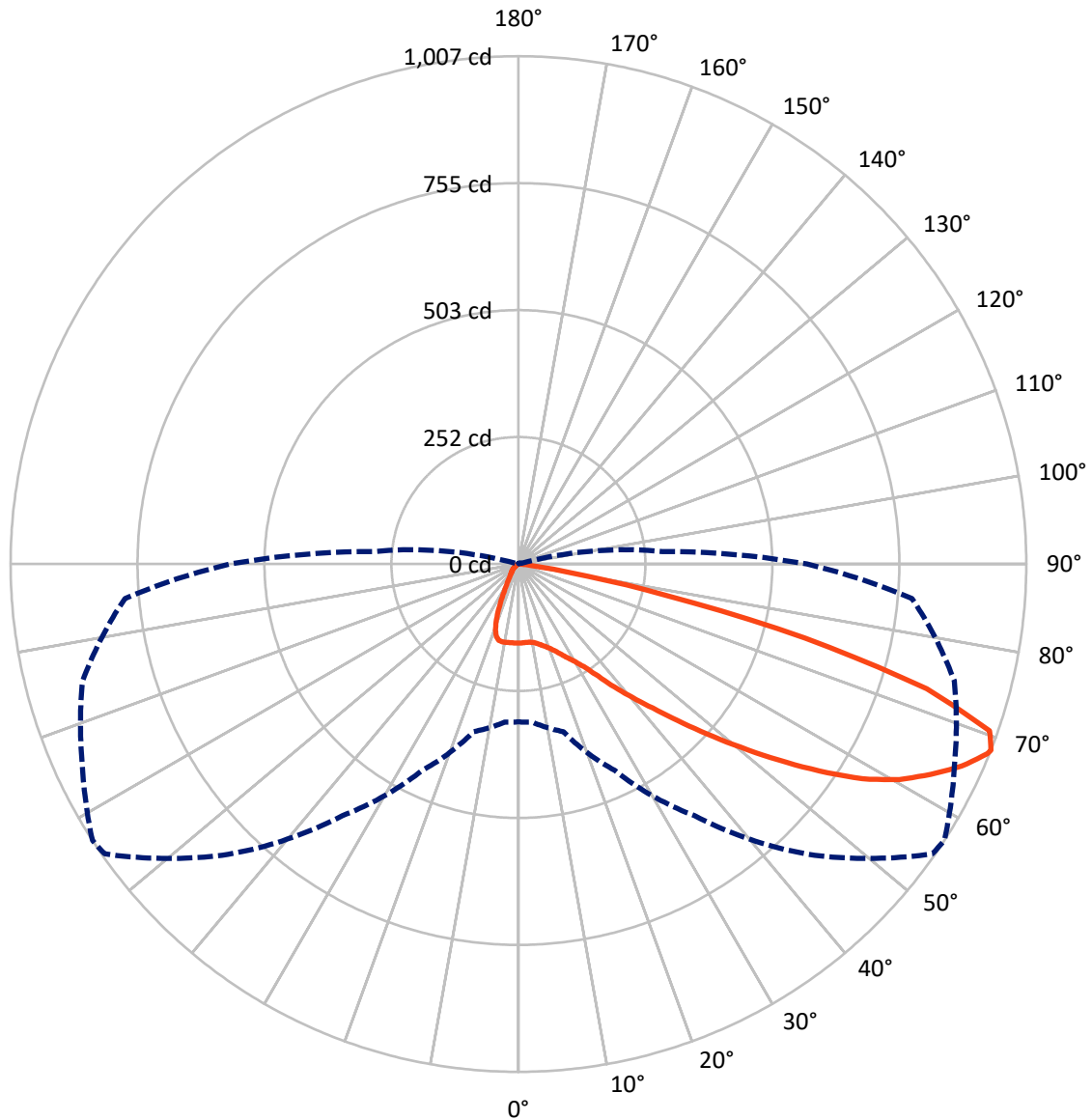


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P348806

CATALOG NUMBER: ARCH-N-PA1-10-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



REPORT NUMBER: P348806

CATALOG NUMBER: ARCH-N-PA1-10-727-U-T3-HSS

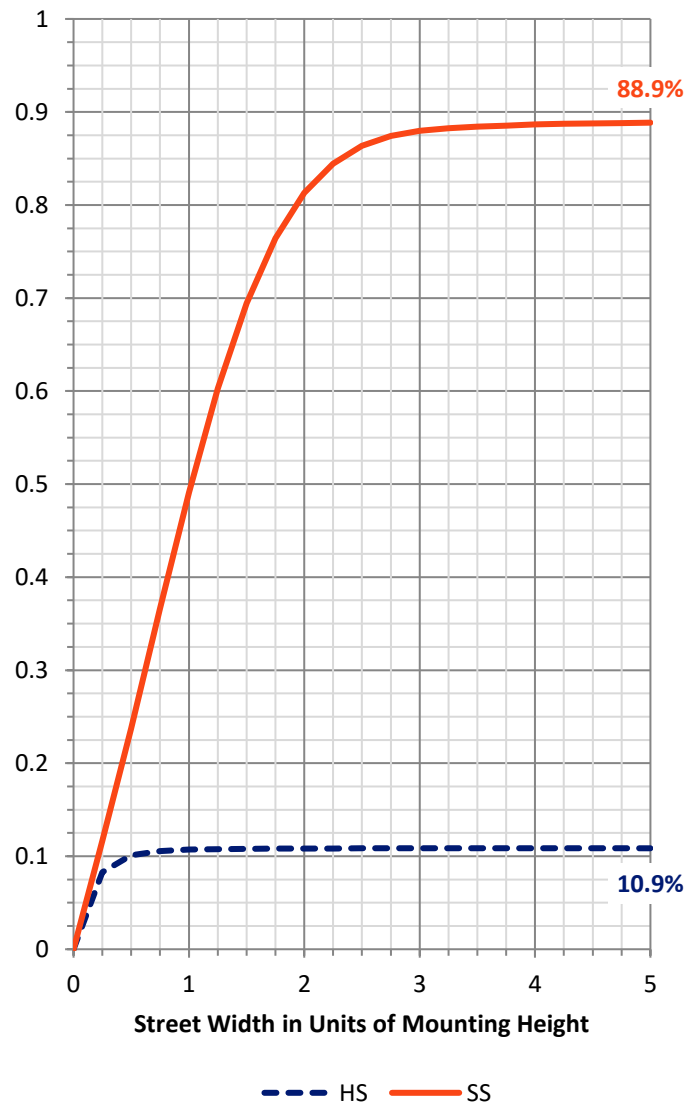
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	144.7	0.0	144.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	1175.3	0.0	1175.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	1320.0	0.0	1320.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	1.1
10°-20°	40.7	3.1
20°-30°	70.2	5.3
30°-40°	121.1	9.2
40°-50°	207.2	15.7
50°-60°	331.4	25.1
60°-70°	382.9	29.0
70°-80°	146.3	11.1
80°-90°	5.5	0.4
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°	1320.0	100.0
0°-180°	1320.0	100.0



REPORT NUMBER: P348806

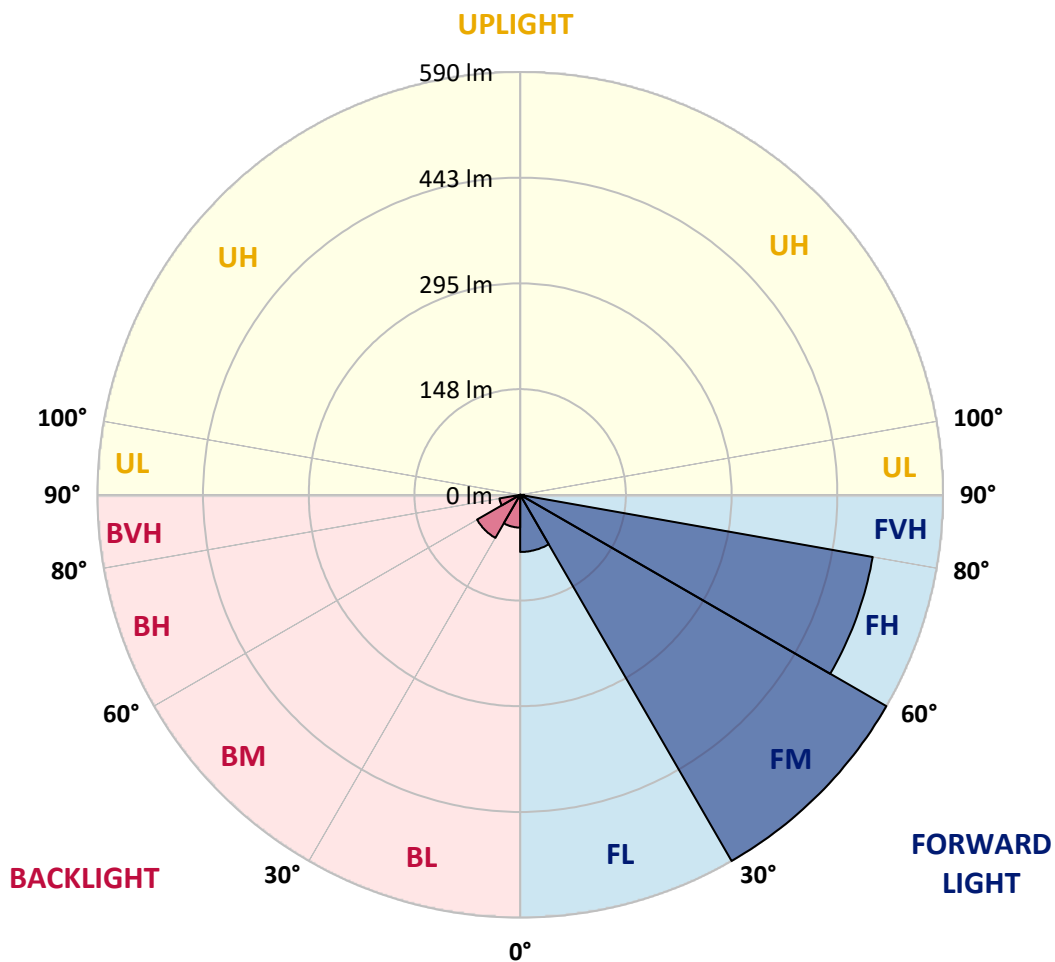
CATALOG NUMBER: ARCH-N-PA1-10-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.8	6.0			
FM	(30°-60°)	590.3	44.7			
FH	(60°-80°)	499.8	37.9			G0/660
FVH	(80°-90°)	5.4	0.4			G0/10
BL	(0°-30°)	45.7	3.5	B0/110		
BM	(30°-60°)	69.4	5.3	B0/220		
BH	(60°-80°)	29.5	2.2	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 III Short





REPORT NUMBER: P348806

CATALOG NUMBER: ARCH-N-PA1-10-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9
2.5°	153.2	153.9	154.4	154.7	155.0	155.9	156.1	156.5	156.7	156.7	157.1
5°	147.1	147.9	148.9	149.8	151.5	153.8	155.4	156.0	157.2	158.2	158.7
7.5°	141.5	142.4	143.6	145.7	148.7	152.3	155.7	156.5	158.7	160.8	161.9
10°	137.9	138.6	140.2	143.1	147.1	152.1	156.9	157.9	161.7	165.2	167.2
12.5°	136.6	137.3	138.9	142.2	147.1	153.0	159.6	161.2	166.7	171.8	174.6
15°	138.4	138.6	140.4	143.5	148.3	155.4	164.2	166.0	173.0	179.7	183.2
17.5°	145.4	144.9	145.8	147.2	151.0	158.4	169.0	171.8	181.0	188.9	192.2
20°	162.9	162.9	160.8	157.0	157.1	163.2	175.5	178.6	189.9	199.1	202.1
22.5°	192.8	192.2	188.0	178.8	170.4	171.3	183.4	187.5	200.7	210.5	211.5
25°	228.8	228.1	221.5	208.6	194.0	184.6	194.1	198.9	213.5	222.1	220.1
27.5°	266.8	266.3	259.8	243.7	222.9	205.7	206.9	211.4	226.5	235.1	228.5
30°	303.7	303.9	297.5	281.0	257.5	232.6	223.1	225.8	239.2	247.9	238.5
32.5°	338.8	339.0	333.5	315.1	293.1	263.8	245.6	244.9	253.9	262.5	251.7
35°	370.1	370.7	366.9	352.6	329.3	298.7	274.8	273.1	274.8	284.5	272.0
37.5°	400.2	400.6	397.7	385.7	366.2	336.9	311.6	309.3	305.6	313.1	298.8
40°	433.2	432.3	429.0	418.1	401.3	379.2	351.2	347.2	340.9	347.5	334.0
42.5°	463.9	462.9	463.4	451.1	437.0	422.6	397.3	390.4	386.7	394.3	377.2
45°	502.3	501.8	503.6	492.9	481.5	471.1	450.1	442.7	441.0	450.0	429.4
47.5°	540.2	541.6	547.4	542.8	538.2	529.0	506.1	502.8	503.8	514.6	484.5
50°	571.8	573.4	589.3	594.6	601.3	595.9	572.9	570.9	574.8	584.5	543.8
52.5°	594.6	597.9	617.7	641.9	666.2	669.8	646.9	645.1	650.4	651.9	589.6
55°	610.5	613.4	635.8	680.0	729.6	745.2	731.0	723.7	722.7	707.9	637.8
57.5°	613.3	613.0	645.2	704.7	779.3	819.5	810.5	803.4	782.9	759.7	693.1
60°	597.4	599.3	636.6	713.2	810.5	875.8	876.4	867.2	835.3	810.1	746.6
62.5°	548.6	556.0	593.8	690.8	810.1	898.4	924.8	917.7	879.6	851.4	800.9
65°	469.5	472.1	508.1	614.0	755.4	888.9	968.3	965.6	919.4	891.4	828.8
67.5°	342.8	337.2	375.0	483.5	639.5	833.6	999.5	1002.8	950.2	899.7	799.1
68°	312.9	314.6	344.0	451.3	609.2	814.1	1001.5	1006.6	953.3	894.3	782.9
70°	186.5	189.7	216.0	310.7	463.4	703.6	979.3	990.9	935.1	838.9	677.1
72.5°	47.6	51.5	76.3	139.1	264.7	495.7	826.7	846.2	811.8	680.6	457.1
75°	19.6	20.6	27.3	45.8	98.6	223.3	544.9	586.7	562.8	407.5	206.6
77.5°	13.5	14.2	17.5	25.4	42.7	75.7	267.1	297.3	267.9	139.1	45.1
80°	9.7	10.3	12.5	16.9	24.5	27.0	87.1	100.7	80.0	30.5	11.2
82.5°	5.8	6.2	9.4	12.0	14.9	12.9	21.7	24.6	23.2	15.2	5.0
85°	2.9	3.4	6.3	8.6	8.1	5.4	6.6	7.4	9.1	9.2	2.7
87.5°	0.2	0.4	3.7	5.2	2.2	1.2	1.9	2.4	3.2	4.6	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348806

CATALOG NUMBER: ARCH-N-PA1-10-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9
2.5°	157.3	157.4	156.9	156.7	156.9	156.1	155.8	155.9	155.9	156.1	155.8
5°	158.8	158.8	158.1	157.1	156.5	155.1	154.2	153.9	153.7	153.6	153.4
7.5°	162.2	161.8	160.5	158.3	156.5	153.4	151.0	149.7	149.1	148.9	148.7
10°	167.6	167.0	164.8	160.7	156.4	150.9	145.7	142.0	138.9	137.7	136.9
12.5°	175.0	174.0	170.3	163.5	156.0	145.7	134.5	123.7	113.7	109.5	107.5
15°	183.4	181.9	176.1	165.9	153.4	134.2	109.8	90.9	77.0	71.7	69.5
17.5°	191.9	190.1	181.3	167.4	145.7	110.3	77.0	58.2	48.9	46.4	45.5
20°	200.5	197.8	185.7	166.3	128.4	79.5	50.8	42.5	39.8	39.1	38.8
22.5°	208.7	204.5	189.7	161.9	101.7	53.4	40.2	37.6	36.7	36.3	36.1
25°	215.8	209.9	193.2	148.4	72.0	40.3	36.2	35.3	34.2	33.4	33.5
27.5°	222.5	215.3	195.3	126.2	48.0	34.5	33.5	32.3	30.3	29.1	29.1
30°	230.6	222.6	196.9	97.1	35.3	30.5	29.7	27.9	25.1	23.5	23.5
32.5°	242.7	233.6	195.9	68.2	29.3	26.8	25.0	22.5	19.5	18.0	17.9
35°	261.2	250.5	188.7	44.7	25.8	23.3	20.5	17.4	14.7	13.5	13.4
37.5°	286.2	273.3	172.8	32.0	23.2	20.0	16.7	13.3	11.3	10.5	10.4
40°	318.6	299.7	149.9	25.9	20.7	16.9	12.9	10.3	8.9	8.3	8.4
42.5°	357.5	327.9	122.5	22.3	18.2	13.9	10.0	8.1	7.2	6.8	6.7
45°	400.6	355.8	93.8	19.9	15.8	11.2	7.9	6.4	5.7	5.5	5.5
47.5°	448.1	383.0	68.7	17.8	13.2	8.7	6.3	5.2	4.7	4.5	4.4
50°	491.3	401.8	49.5	15.5	10.8	6.9	5.1	4.4	4.0	3.7	3.7
52.5°	527.2	407.8	36.5	13.1	8.7	5.5	4.2	3.7	3.4	3.2	3.2
55°	558.9	405.3	27.1	10.8	7.1	4.5	3.6	3.2	2.9	2.7	2.7
57.5°	589.2	397.5	20.2	8.8	5.7	3.6	3.1	2.7	2.4	2.2	2.2
60°	614.0	384.4	15.0	7.1	4.6	2.9	2.6	2.2	1.9	1.7	1.7
62.5°	634.1	369.9	11.0	5.9	3.6	2.3	2.0	1.8	1.4	1.2	1.2
65°	634.2	345.8	8.3	4.9	2.8	1.8	1.5	1.4	0.9	0.7	0.7
67.5°	588.3	298.2	6.4	4.2	2.2	1.4	1.1	1.2	0.5	0.3	0.2
68°	571.7	286.1	6.0	4.1	2.1	1.3	1.1	1.2	0.4	0.2	0.2
70°	482.0	227.6	4.8	4.0	1.8	1.0	0.9	1.2	0.4	0.2	0.1
72.5°	308.3	132.1	3.6	3.2	1.4	0.7	0.6	1.1	0.4	0.1	0.1
75°	131.2	40.9	2.4	2.2	0.8	0.6	0.4	0.7	0.2	0.1	0.0
77.5°	27.7	9.2	1.4	1.4	0.6	0.4	0.2	0.2	0.1	0.0	0.0
80°	7.1	2.7	0.7	0.7	0.3	0.2	0.1	0.0	0.0	0.0	0.0
82.5°	2.2	1.1	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.1	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.2	0.1	0.0	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)