

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: P348898

Luminaire Tested: **ARCH-N-PA1-19-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-827-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1570 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

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

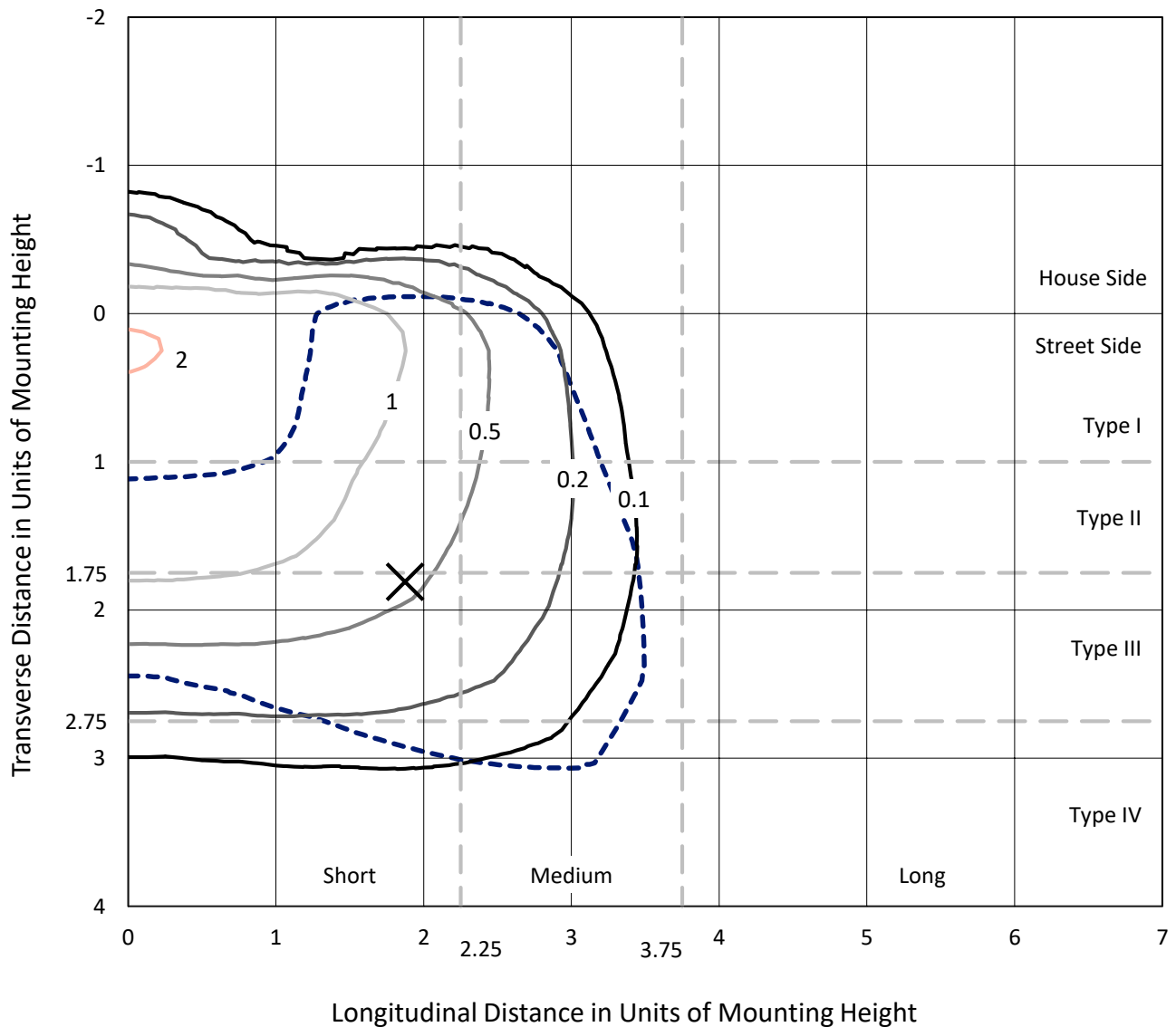


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

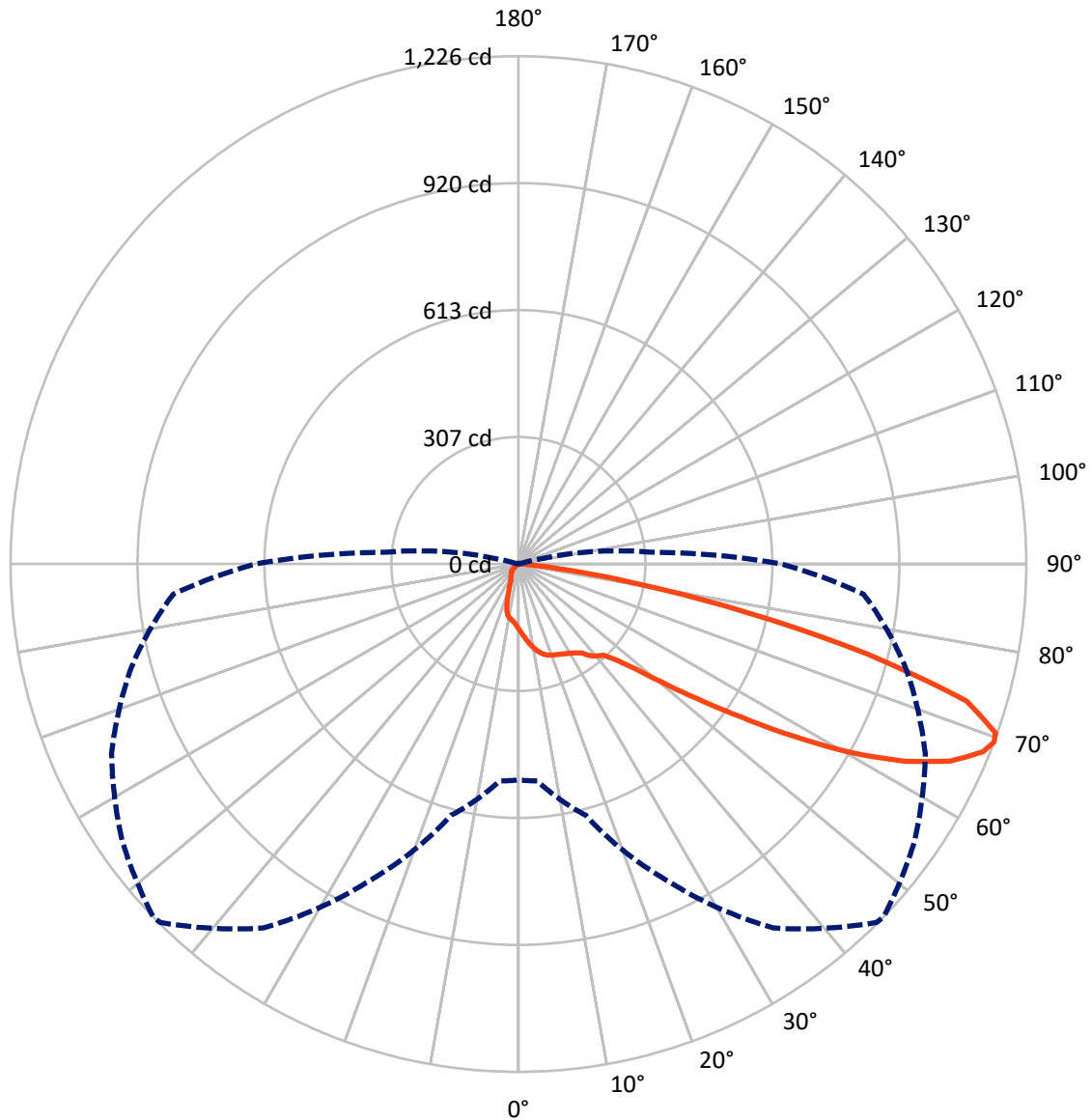


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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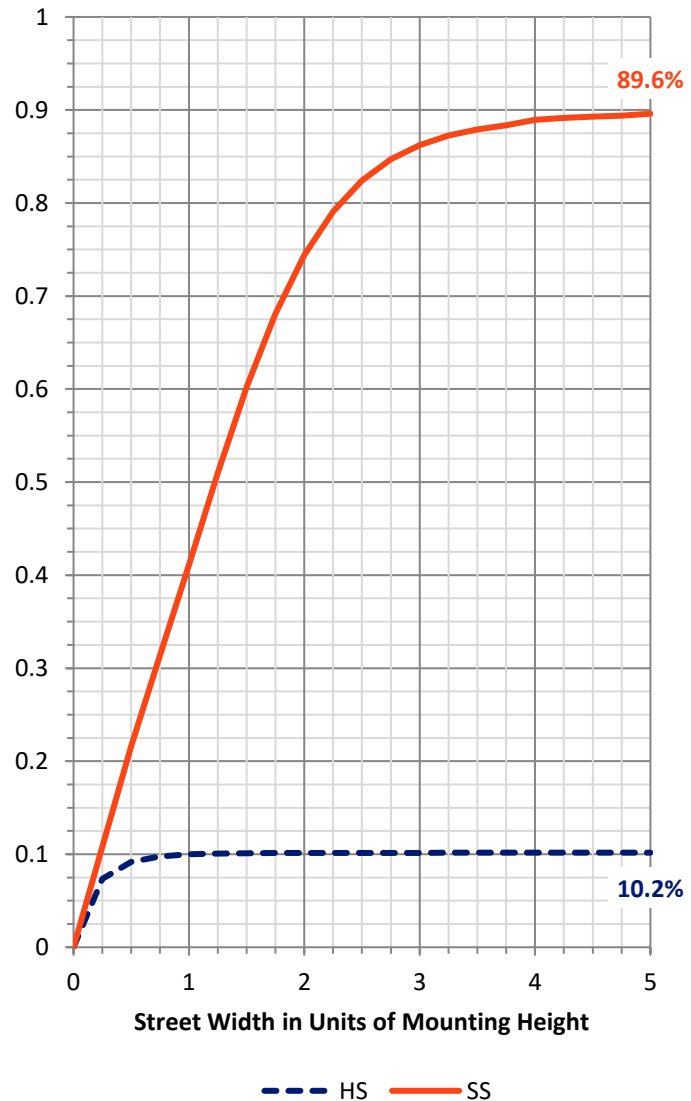
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	161.1	0.0	161.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	1408.9	0.0	1408.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	1570.0	0.0	1570.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	1.0
10°-20°	47.5	3.0
20°-30°	74.7	4.8
30°-40°	107.1	6.8
40°-50°	185.2	11.8
50°-60°	365.8	23.3
60°-70°	511.2	32.6
70°-80°	247.0	15.7
80°-90°	15.9	1.0
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°	1570.0	100.0
0°-180°	1570.0	100.0



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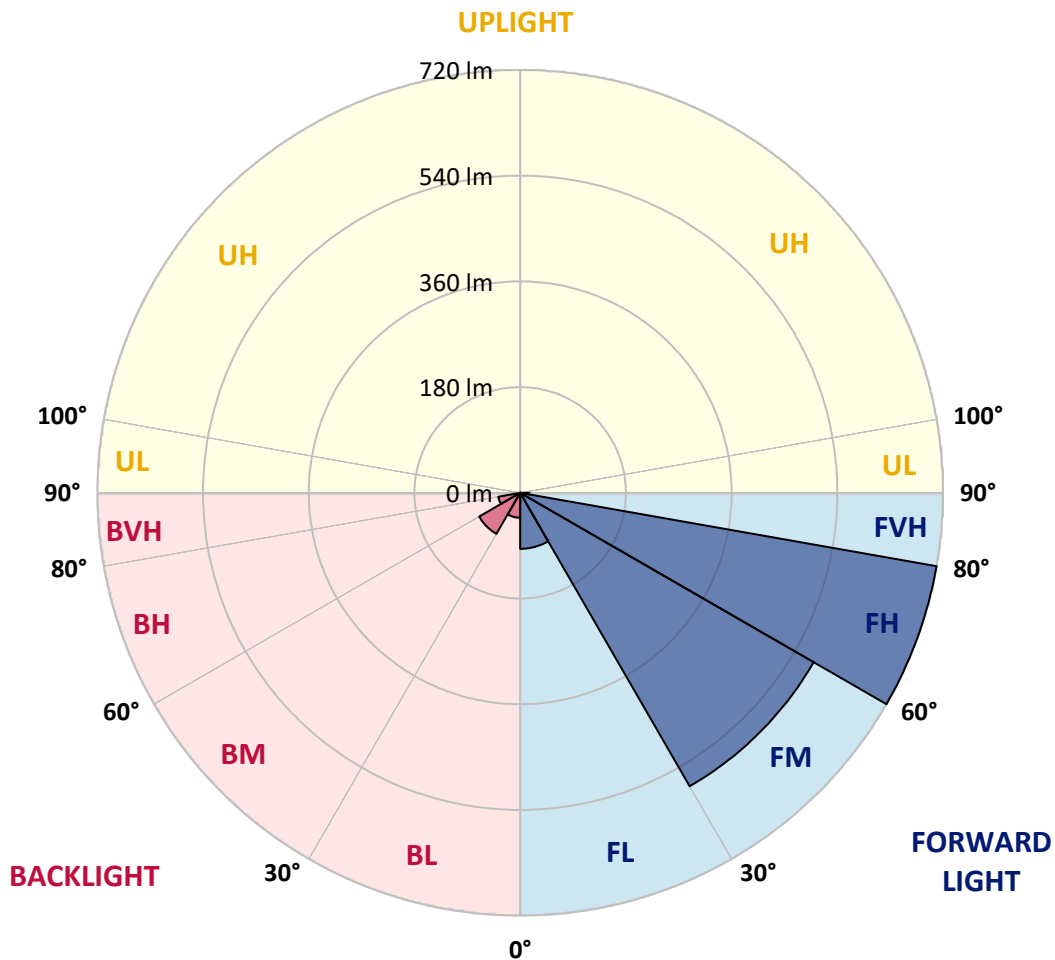
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.4	6.1			
FM	(30°-60°)	577.3	36.8			
FH	(60°-80°)	720.4	45.9			G1/1800
FVH	(80°-90°)	15.7	1.0			G1/100
BL	(0°-30°)	42.5	2.7	B0/110		
BM	(30°-60°)	80.7	5.1	B0/220		
BH	(60°-80°)	37.8	2.4	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3
2.5°	174.8	174.5	173.5	173.1	170.6	169.1	168.5	166.7	164.0	161.4	158.4
5°	194.6	194.6	192.6	190.8	186.1	181.7	180.9	176.6	170.6	165.0	159.4
7.5°	214.9	214.0	212.1	208.5	201.7	194.6	194.0	187.9	179.5	171.4	163.3
10°	232.2	231.6	229.1	223.7	215.7	207.7	206.8	199.4	189.8	179.9	169.7
12.5°	245.6	245.1	241.8	235.1	226.6	218.3	217.2	210.5	200.3	189.2	177.1
15°	253.7	253.5	249.5	242.3	233.9	226.7	225.8	220.0	210.5	198.8	185.2
17.5°	255.7	255.7	251.5	244.3	237.4	232.2	231.5	227.1	219.1	207.6	193.3
20°	251.4	252.3	248.5	242.3	238.0	235.3	234.7	232.0	225.3	214.4	199.8
22.5°	245.3	245.8	243.2	239.0	237.3	237.8	237.5	236.0	230.3	220.3	206.2
25°	241.7	241.7	240.1	236.6	237.8	240.9	241.0	240.7	236.2	227.5	214.0
27.5°	241.5	241.1	239.3	236.7	239.9	244.8	245.1	247.0	244.2	236.3	223.7
30°	247.4	246.9	243.1	239.7	243.8	249.0	249.8	254.1	252.7	245.8	234.5
32.5°	261.2	259.3	251.0	245.3	248.4	254.7	255.7	262.6	264.8	257.5	245.0
35°	280.0	274.2	262.2	256.1	256.4	262.9	263.8	274.0	280.5	268.2	253.1
37.5°	306.0	303.1	283.6	267.3	268.6	278.5	281.1	292.2	290.3	274.1	262.3
40°	363.0	358.5	337.7	298.6	280.3	291.2	292.0	297.9	298.1	287.5	281.4
42.5°	440.6	438.7	416.9	355.5	303.4	299.7	301.1	311.1	322.2	315.6	315.3
45°	526.5	525.5	502.3	431.1	349.9	327.4	329.3	342.6	363.9	365.3	374.7
47.5°	595.6	595.2	581.8	515.4	421.3	374.5	375.1	389.2	426.6	445.1	460.0
50°	658.6	660.7	650.2	606.6	518.4	448.1	446.7	456.2	516.2	546.5	565.0
52.5°	746.2	749.2	719.7	691.7	620.4	539.6	538.5	548.3	624.0	646.7	650.0
55°	823.6	818.4	795.1	787.0	744.7	652.5	652.2	660.9	728.2	737.9	744.0
57.5°	857.7	855.7	867.0	885.5	874.9	786.0	785.3	778.7	821.5	822.5	841.3
60°	879.3	881.7	916.2	973.4	999.9	929.6	925.3	884.9	910.6	908.3	928.4
62.5°	863.1	867.9	930.0	1025.3	1093.4	1054.9	1048.9	982.2	986.7	978.8	997.5
65°	777.1	784.6	886.4	1015.5	1139.7	1152.9	1146.8	1068.1	1047.1	1034.2	1023.8
67.5°	631.0	635.4	741.7	930.4	1118.8	1211.4	1210.1	1143.4	1092.8	1024.8	944.3
69°	521.5	525.8	628.1	840.7	1072.8	1223.9	1226.3	1167.6	1084.1	968.0	836.7
70°	441.7	446.3	541.6	763.9	1019.4	1218.1	1222.4	1165.3	1059.2	902.2	742.2
72.5°	231.7	235.6	333.5	526.2	831.1	1118.5	1131.6	1066.8	897.8	655.2	438.9
75°	72.8	75.1	130.2	275.1	569.0	869.6	872.7	836.8	637.6	360.4	182.8
77.5°	27.8	27.1	43.4	101.4	287.7	547.6	566.1	522.9	334.6	127.4	42.2
80°	14.9	15.0	22.5	42.0	123.1	281.4	297.0	253.4	118.9	39.8	9.7
82.5°	6.5	6.8	12.7	22.2	56.5	103.8	111.6	92.9	45.4	26.7	3.6
85°	1.4	1.5	6.1	12.1	23.0	29.2	30.5	30.1	28.9	20.8	1.4
87.5°	0.0	0.0	2.7	4.3	5.8	6.6	5.8	7.6	16.0	14.0	0.7
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°	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3
2.5°	157.5	156.1	153.8	151.3	149.6	147.7	146.3	145.6	144.9	144.4	145.0
5°	157.2	154.6	150.2	145.9	142.8	140.3	138.2	137.4	136.6	136.0	136.0
7.5°	159.7	156.1	149.4	143.1	138.3	134.9	132.1	131.0	130.0	129.6	129.2
10°	164.7	160.0	151.0	142.8	136.6	130.9	124.8	120.2	117.2	115.8	115.3
12.5°	171.1	165.3	154.1	144.4	135.4	124.3	111.5	100.5	93.3	91.0	89.6
15°	178.6	171.4	158.1	146.3	130.8	110.6	88.9	74.5	67.9	66.5	65.1
17.5°	185.8	177.8	163.0	146.7	120.8	88.4	65.1	55.4	52.8	53.7	53.9
20°	192.1	184.3	167.8	143.5	102.6	66.3	50.4	48.0	49.0	50.6	50.9
22.5°	198.5	190.4	172.2	134.9	79.4	50.4	45.4	46.0	47.0	48.7	49.0
25°	206.3	197.9	176.3	119.3	59.6	42.8	43.1	44.0	45.0	46.5	46.7
27.5°	215.3	207.4	179.0	98.9	44.2	39.4	40.3	41.7	42.6	44.1	44.4
30°	227.2	220.0	179.9	77.7	37.0	36.3	36.7	38.4	39.8	41.1	41.3
32.5°	238.4	232.3	177.0	58.7	34.3	33.4	33.4	34.4	36.0	37.2	37.5
35°	248.7	244.8	167.5	42.9	32.2	30.8	30.0	30.0	31.1	32.1	32.4
37.5°	262.4	262.2	152.3	34.2	30.3	28.6	27.0	25.8	25.5	25.7	25.8
40°	285.7	285.9	132.4	30.7	28.6	26.3	23.9	21.8	19.8	19.1	19.1
42.5°	322.1	318.8	111.6	29.0	27.1	23.9	20.4	17.5	14.4	13.5	13.4
45°	380.0	360.3	89.5	27.5	25.5	21.3	16.9	13.0	10.5	9.7	9.7
47.5°	464.3	414.9	69.3	25.8	23.5	18.3	12.7	9.3	7.7	7.3	7.4
50°	551.4	468.3	53.1	23.6	21.0	15.1	9.4	6.8	5.8	5.8	5.9
52.5°	628.7	507.5	41.4	21.3	17.9	11.9	7.1	5.3	4.9	4.8	4.9
55°	701.1	532.7	31.7	18.7	14.2	8.8	5.4	4.3	4.0	3.9	3.8
57.5°	770.9	545.2	23.8	15.1	10.3	6.4	4.3	3.7	3.4	3.2	3.1
60°	817.3	535.1	16.3	11.1	7.1	4.6	3.6	3.2	2.8	2.6	2.5
62.5°	843.5	507.3	10.5	8.0	5.1	3.5	2.9	2.7	2.1	1.9	1.9
65°	832.9	461.5	7.4	5.7	3.7	2.6	2.1	2.1	1.5	1.3	1.2
67.5°	738.1	389.9	5.6	4.3	2.7	1.9	1.6	1.8	1.0	0.6	0.6
69°	635.0	323.2	4.8	3.5	2.2	1.5	1.4	1.7	0.7	0.4	0.4
70°	551.9	278.8	4.3	3.1	1.8	1.3	1.3	1.6	0.7	0.4	0.3
72.5°	330.2	155.5	3.3	2.2	1.2	1.0	1.0	1.8	0.7	0.4	0.3
75°	133.5	54.8	2.4	1.5	0.9	0.9	1.3	2.4	0.6	0.3	0.2
77.5°	30.3	12.0	1.4	1.0	0.6	0.9	1.5	1.8	0.4	0.1	0.0
80°	7.4	2.9	0.9	0.6	0.4	0.7	1.1	1.0	0.1	0.0	0.0
82.5°	2.4	1.0	0.4	0.3	0.1	0.2	0.5	0.3	0.0	0.0	0.0
85°	1.0	0.6	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
87.5°	0.7	0.2	0.0	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)