

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: P348905

Luminaire Tested: **ARCH-N-PA1-19-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348905
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-PA1-19-830-U-T4W-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: 1697 lumens
Efficiency: N/A
Efficacy: 89.3 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

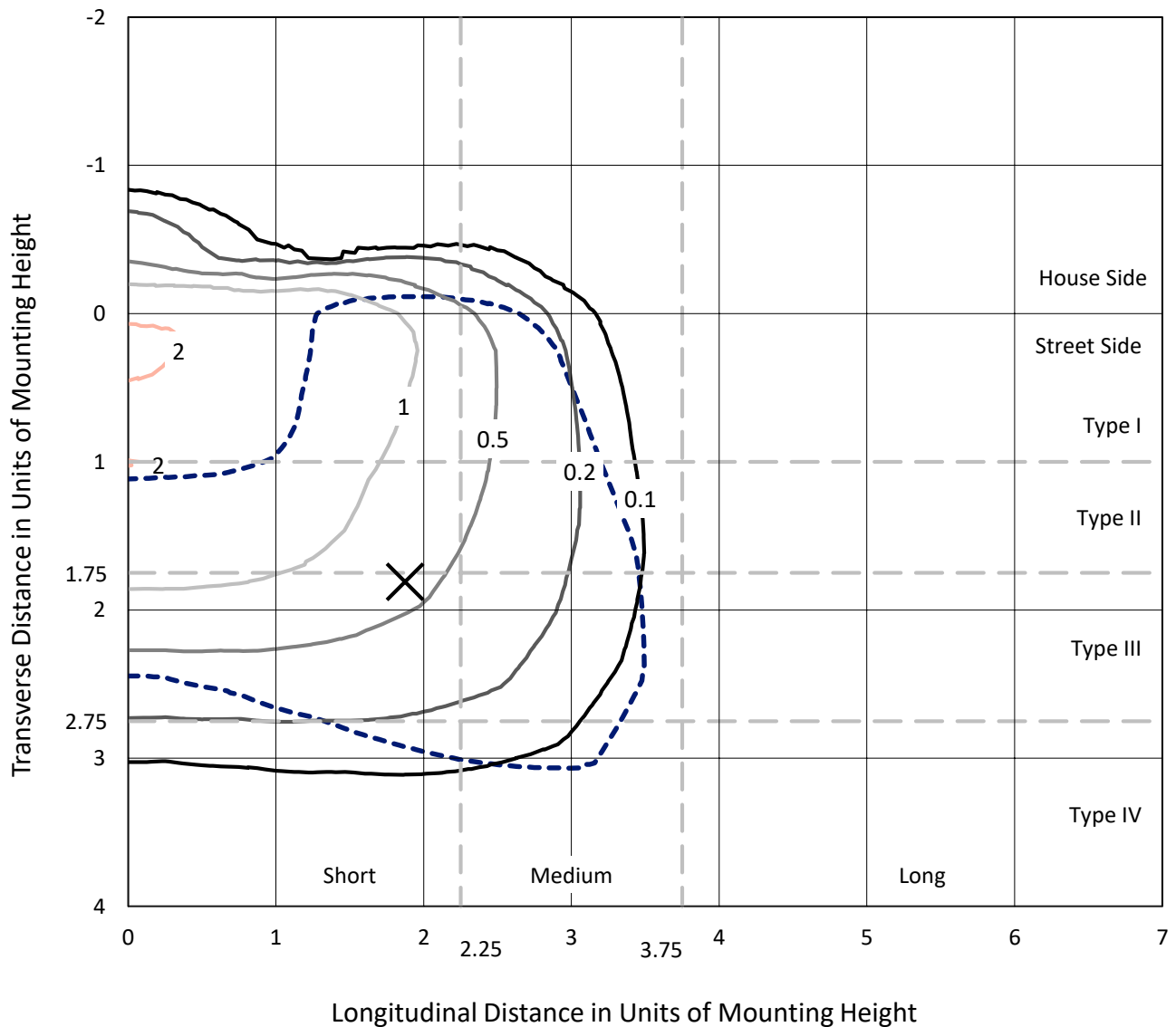


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

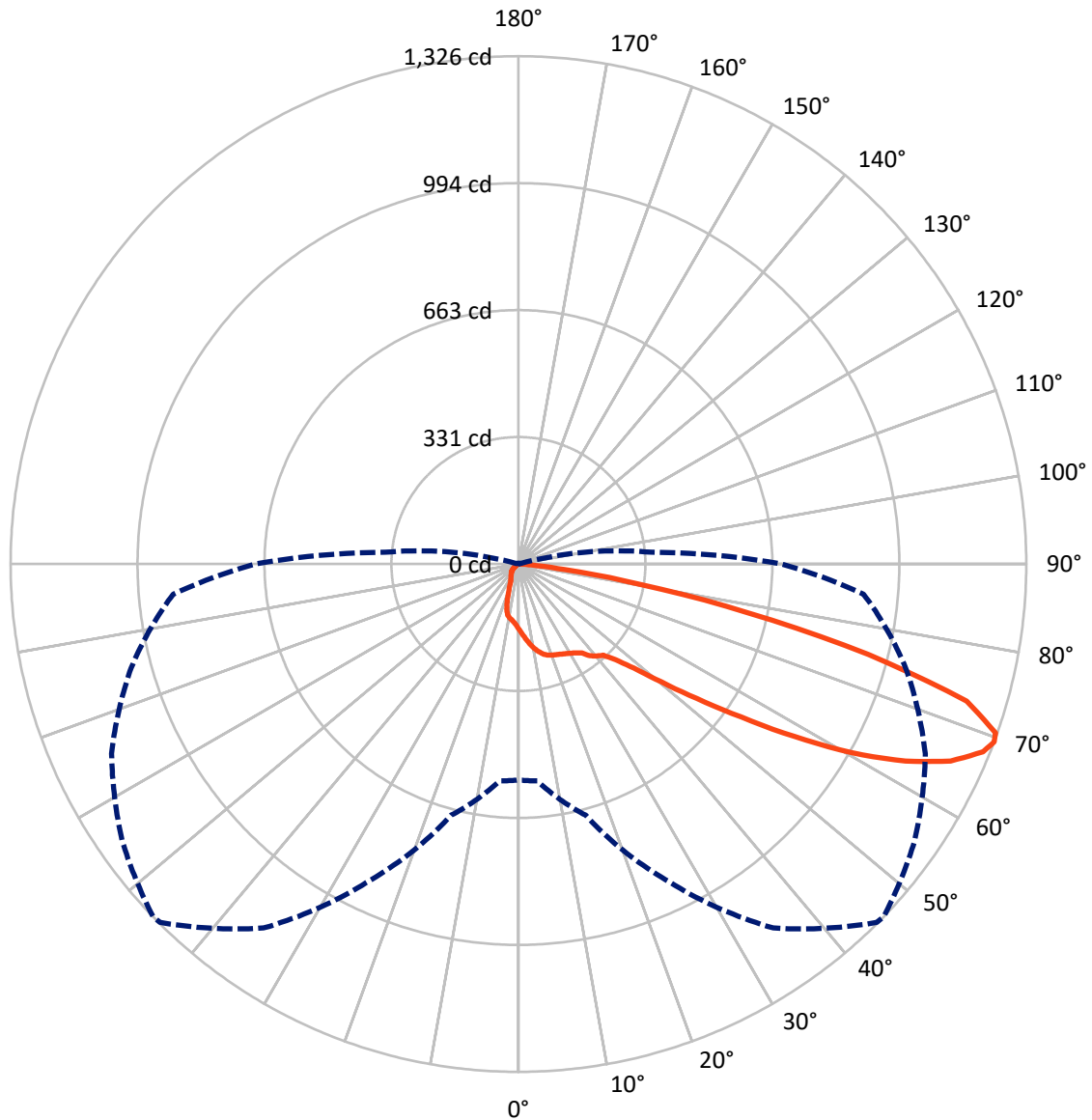


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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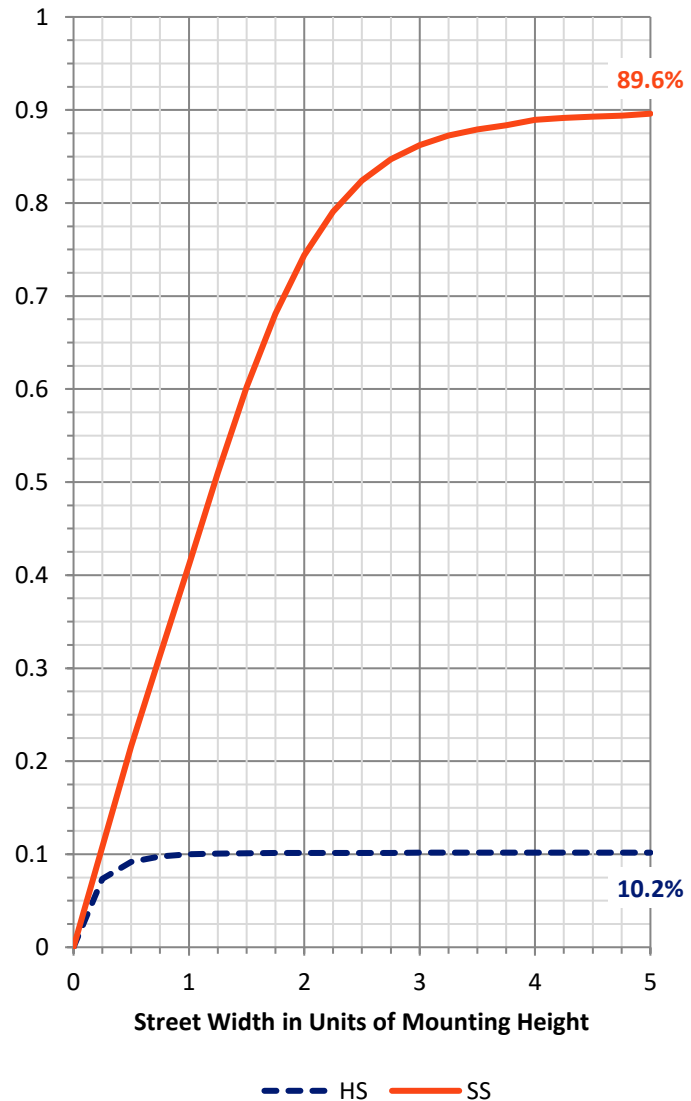
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	174.2	0.0	174.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	1522.8	0.0	1522.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	1697.0	0.0	1697.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	1.0
10°-20°	51.3	3.0
20°-30°	80.7	4.8
30°-40°	115.8	6.8
40°-50°	200.1	11.8
50°-60°	395.4	23.3
60°-70°	552.6	32.6
70°-80°	267.0	15.7
80°-90°	17.2	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°	1697.0	100.0
0°-180°	1697.0	100.0



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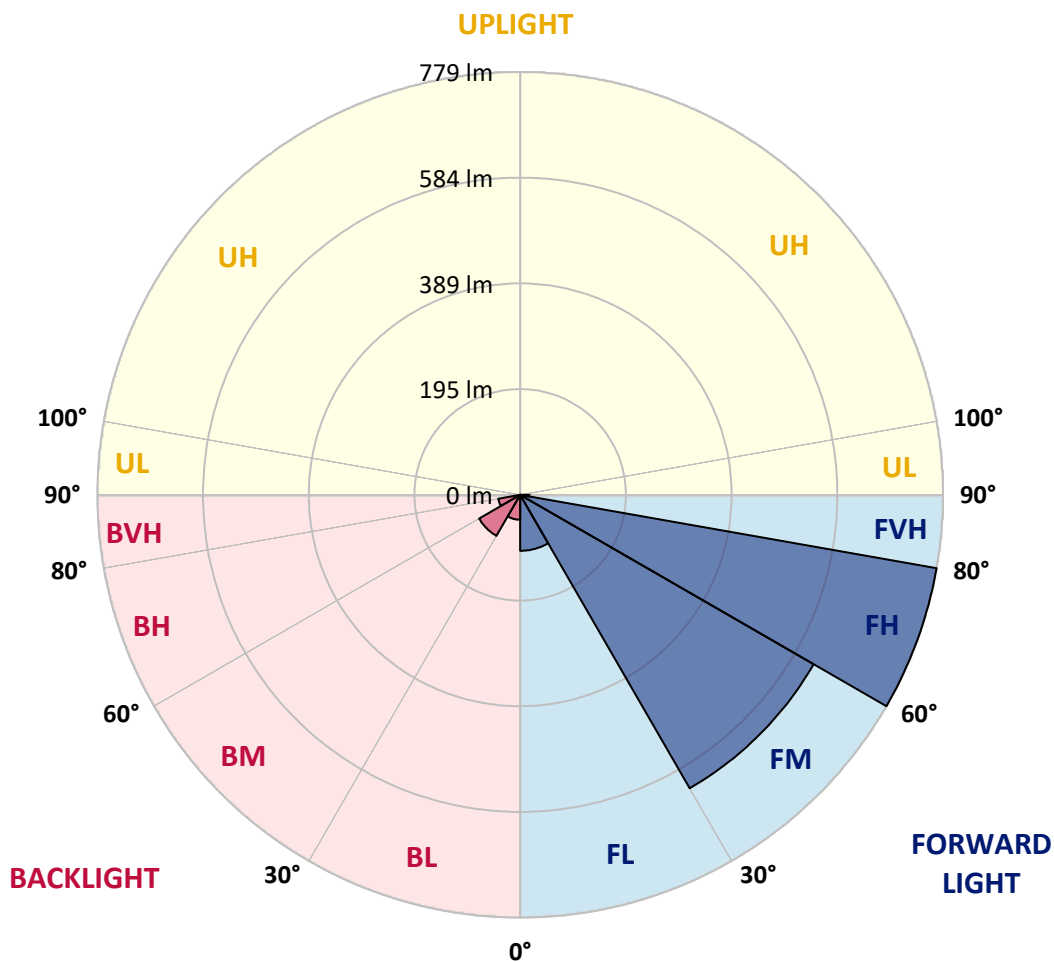
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.1	6.1			
FM	(30°-60°)	624.0	36.8			
FH	(60°-80°)	778.7	45.9			G1/1800
FVH	(80°-90°)	17.0	1.0			G1/100
BL	(0°-30°)	45.9	2.7	B0/110		
BM	(30°-60°)	87.3	5.1	B0/220		
BH	(60°-80°)	40.8	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°	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
2.5°	188.9	188.7	187.5	187.1	184.4	182.8	182.1	180.1	177.3	174.4	171.2
5°	210.4	210.3	208.2	206.2	201.1	196.4	195.5	190.9	184.4	178.4	172.3
7.5°	232.3	231.3	229.2	225.4	218.0	210.4	209.7	203.1	194.0	185.2	176.6
10°	251.0	250.3	247.6	241.8	233.1	224.5	223.6	215.5	205.2	194.5	183.4
12.5°	265.4	265.0	261.4	254.1	244.9	235.9	234.7	227.6	216.5	204.5	191.4
15°	274.3	274.0	269.6	261.9	252.9	245.1	244.0	237.7	227.5	214.9	200.2
17.5°	276.3	276.4	271.9	264.1	256.6	251.0	250.2	245.5	236.9	224.4	208.9
20°	271.7	272.7	268.6	261.9	257.2	254.3	253.7	250.8	243.6	231.8	215.9
22.5°	265.2	265.7	262.9	258.4	256.4	257.0	256.7	255.1	249.0	238.1	222.9
25°	261.2	261.2	259.5	255.7	257.0	260.4	260.5	260.2	255.3	245.9	231.3
27.5°	261.1	260.6	258.7	255.8	259.3	264.6	264.9	267.0	264.0	255.4	241.8
30°	267.4	266.9	262.8	259.1	263.5	269.2	270.0	274.7	273.2	265.7	253.5
32.5°	282.3	280.3	271.3	265.2	268.5	275.3	276.3	283.8	286.2	278.3	264.8
35°	302.7	296.4	283.4	276.8	277.1	284.2	285.2	296.1	303.2	289.9	273.5
37.5°	330.8	327.7	306.6	288.9	290.3	301.1	303.9	315.8	313.8	296.3	283.5
40°	392.3	387.5	365.0	322.8	303.0	314.8	315.6	322.0	322.2	310.7	304.2
42.5°	476.2	474.2	450.6	384.3	327.9	323.9	325.5	336.2	348.3	341.1	340.8
45°	569.1	568.0	543.0	465.9	378.3	353.9	355.9	370.3	393.3	394.9	405.0
47.5°	643.8	643.3	628.9	557.0	455.4	404.8	405.4	420.7	461.1	481.1	497.2
50°	711.9	714.2	702.8	655.6	560.4	484.4	482.9	493.1	558.0	590.7	610.8
52.5°	806.6	809.8	777.9	747.6	670.6	583.2	582.0	592.7	674.5	699.0	702.6
55°	890.2	884.6	859.4	850.6	805.0	705.3	705.0	714.3	787.1	797.6	804.2
57.5°	927.1	925.0	937.1	957.2	945.7	849.5	848.8	841.7	888.0	889.1	909.4
60°	950.4	953.0	990.4	1052.2	1080.7	1004.8	1000.1	956.5	984.2	981.8	1003.5
62.5°	932.9	938.1	1005.2	1108.3	1181.8	1140.3	1133.7	1061.7	1066.5	1058.0	1078.2
65°	840.0	848.0	958.1	1097.7	1231.9	1246.2	1239.6	1154.5	1131.8	1117.8	1106.6
67.5°	682.0	686.8	801.7	1005.6	1209.3	1309.3	1308.0	1235.9	1181.2	1107.7	1020.7
69°	563.6	568.3	678.9	908.7	1159.6	1322.9	1325.5	1262.0	1171.8	1046.3	904.3
70°	477.4	482.4	585.4	825.7	1101.9	1316.6	1321.3	1259.5	1144.9	975.2	802.3
72.5°	250.4	254.7	360.4	568.8	898.3	1208.9	1223.2	1153.1	970.5	708.2	474.4
75°	78.7	81.2	140.8	297.3	615.0	940.0	943.3	904.5	689.1	389.6	197.6
77.5°	30.0	29.3	46.9	109.6	310.9	591.9	611.9	565.2	361.6	137.7	45.6
80°	16.2	16.2	24.3	45.4	133.0	304.2	321.0	273.9	128.5	43.0	10.5
82.5°	7.0	7.3	13.7	24.0	61.1	112.2	120.6	100.4	49.1	28.9	3.9
85°	1.5	1.7	6.6	13.0	24.9	31.5	33.0	32.5	31.3	22.4	1.5
87.5°	0.0	0.0	2.9	4.7	6.3	7.2	6.3	8.2	17.3	15.1	0.8
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°	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
2.5°	170.2	168.8	166.3	163.6	161.7	159.7	158.1	157.4	156.6	156.0	156.7
5°	169.9	167.1	162.3	157.7	154.4	151.7	149.4	148.6	147.7	147.0	147.0
7.5°	172.7	168.8	161.4	154.7	149.5	145.8	142.8	141.5	140.5	140.0	139.6
10°	178.0	173.0	163.2	154.4	147.7	141.5	134.9	129.9	126.7	125.2	124.6
12.5°	184.9	178.6	166.5	156.0	146.3	134.4	120.5	108.6	100.9	98.3	96.8
15°	193.0	185.2	170.9	158.2	141.4	119.6	96.1	80.5	73.4	71.9	70.3
17.5°	200.8	192.2	176.2	158.6	130.6	95.6	70.4	59.8	57.0	58.0	58.2
20°	207.7	199.2	181.3	155.1	110.9	71.7	54.5	51.9	52.9	54.7	55.1
22.5°	214.6	205.8	186.1	145.8	85.8	54.4	49.1	49.7	50.8	52.6	52.9
25°	223.0	214.0	190.6	128.9	64.4	46.3	46.6	47.6	48.6	50.3	50.4
27.5°	232.7	224.2	193.5	106.9	47.7	42.6	43.6	45.0	46.1	47.7	48.0
30°	245.6	237.7	194.5	84.0	40.0	39.2	39.7	41.5	43.0	44.4	44.6
32.5°	257.7	251.1	191.3	63.4	37.1	36.1	36.1	37.2	38.9	40.3	40.6
35°	268.9	264.6	181.1	46.4	34.9	33.3	32.5	32.5	33.6	34.7	35.0
37.5°	283.6	283.4	164.6	37.0	32.7	30.9	29.2	27.9	27.5	27.8	27.9
40°	308.8	309.0	143.1	33.2	30.9	28.4	25.9	23.6	21.4	20.7	20.6
42.5°	348.2	344.6	120.6	31.3	29.3	25.9	22.0	18.9	15.6	14.6	14.5
45°	410.7	389.5	96.8	29.7	27.6	23.0	18.2	14.0	11.3	10.5	10.5
47.5°	501.8	448.4	75.0	27.8	25.4	19.7	13.8	10.1	8.3	7.9	8.0
50°	596.0	506.2	57.4	25.5	22.7	16.3	10.2	7.3	6.3	6.3	6.4
52.5°	679.6	548.5	44.8	23.1	19.3	12.8	7.7	5.7	5.3	5.2	5.3
55°	757.8	575.8	34.3	20.2	15.4	9.5	5.9	4.7	4.4	4.2	4.1
57.5°	833.2	589.3	25.7	16.3	11.1	6.9	4.7	4.0	3.7	3.4	3.3
60°	883.4	578.4	17.7	12.0	7.7	5.0	3.9	3.4	3.0	2.8	2.7
62.5°	911.7	548.4	11.4	8.7	5.5	3.7	3.1	2.9	2.3	2.1	2.1
65°	900.3	498.9	8.0	6.2	4.0	2.8	2.3	2.3	1.7	1.4	1.3
67.5°	797.8	421.5	6.0	4.6	2.9	2.1	1.8	2.0	1.0	0.6	0.6
69°	686.4	349.3	5.2	3.8	2.4	1.7	1.5	1.8	0.7	0.5	0.4
70°	596.6	301.3	4.7	3.3	2.0	1.4	1.4	1.8	0.7	0.4	0.3
72.5°	356.9	168.0	3.6	2.4	1.3	1.1	1.1	2.0	0.7	0.4	0.3
75°	144.3	59.2	2.6	1.7	1.0	1.0	1.4	2.5	0.6	0.3	0.2
77.5°	32.7	13.0	1.5	1.0	0.6	1.0	1.6	2.0	0.4	0.2	0.0
80°	8.0	3.2	1.0	0.6	0.4	0.7	1.2	1.1	0.1	0.0	0.0
82.5°	2.6	1.1	0.4	0.3	0.1	0.2	0.6	0.3	0.0	0.0	0.0
85°	1.1	0.6	0.2	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)