

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: P348807

Luminaire Tested: **ARCH-N-PA1-19-727-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348807  
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-PA1-19-727-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1770 lumens  
Efficiency: N/A  
Efficacy: 93.2 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 - 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

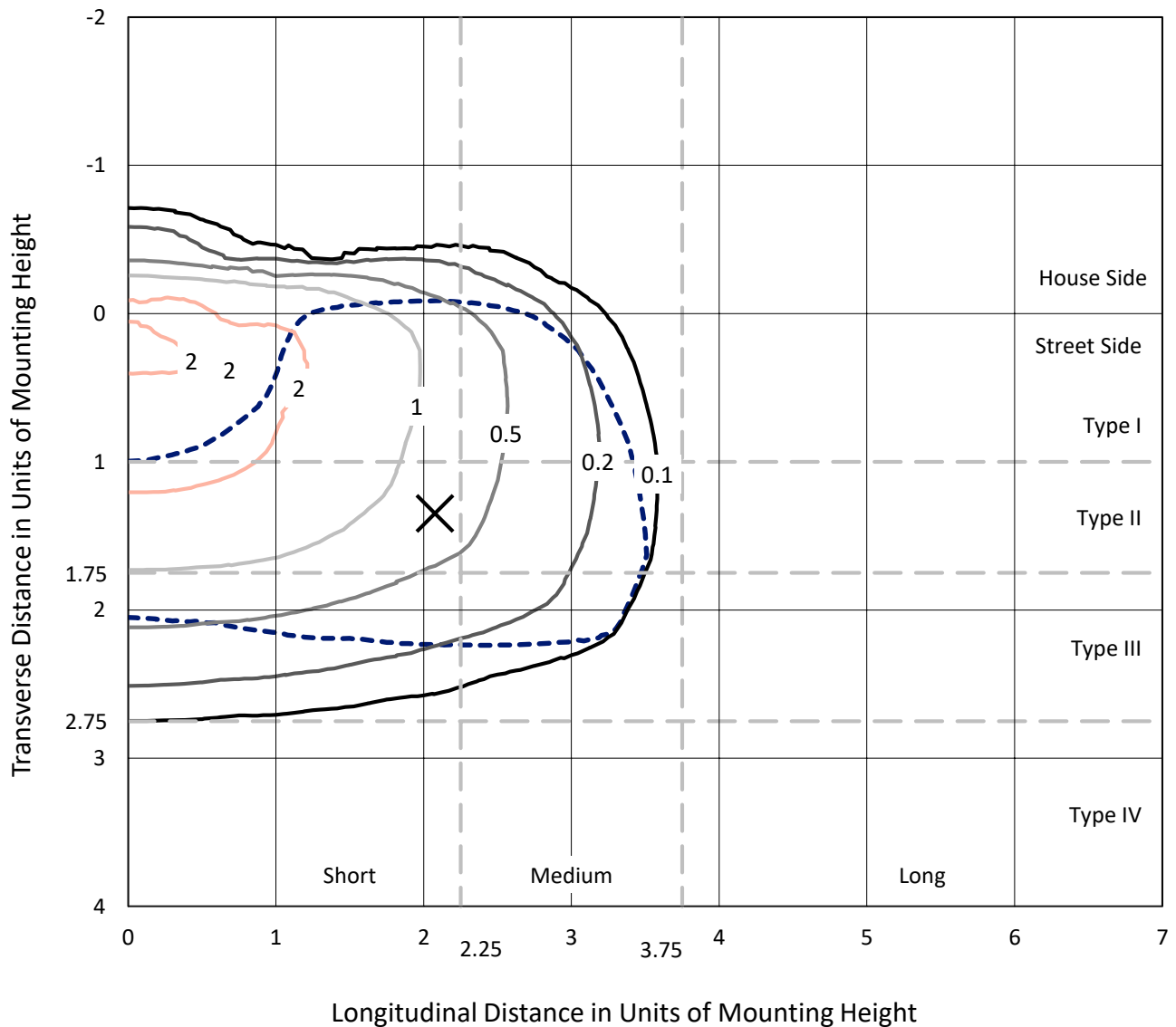


REPORT NUMBER: P348807

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

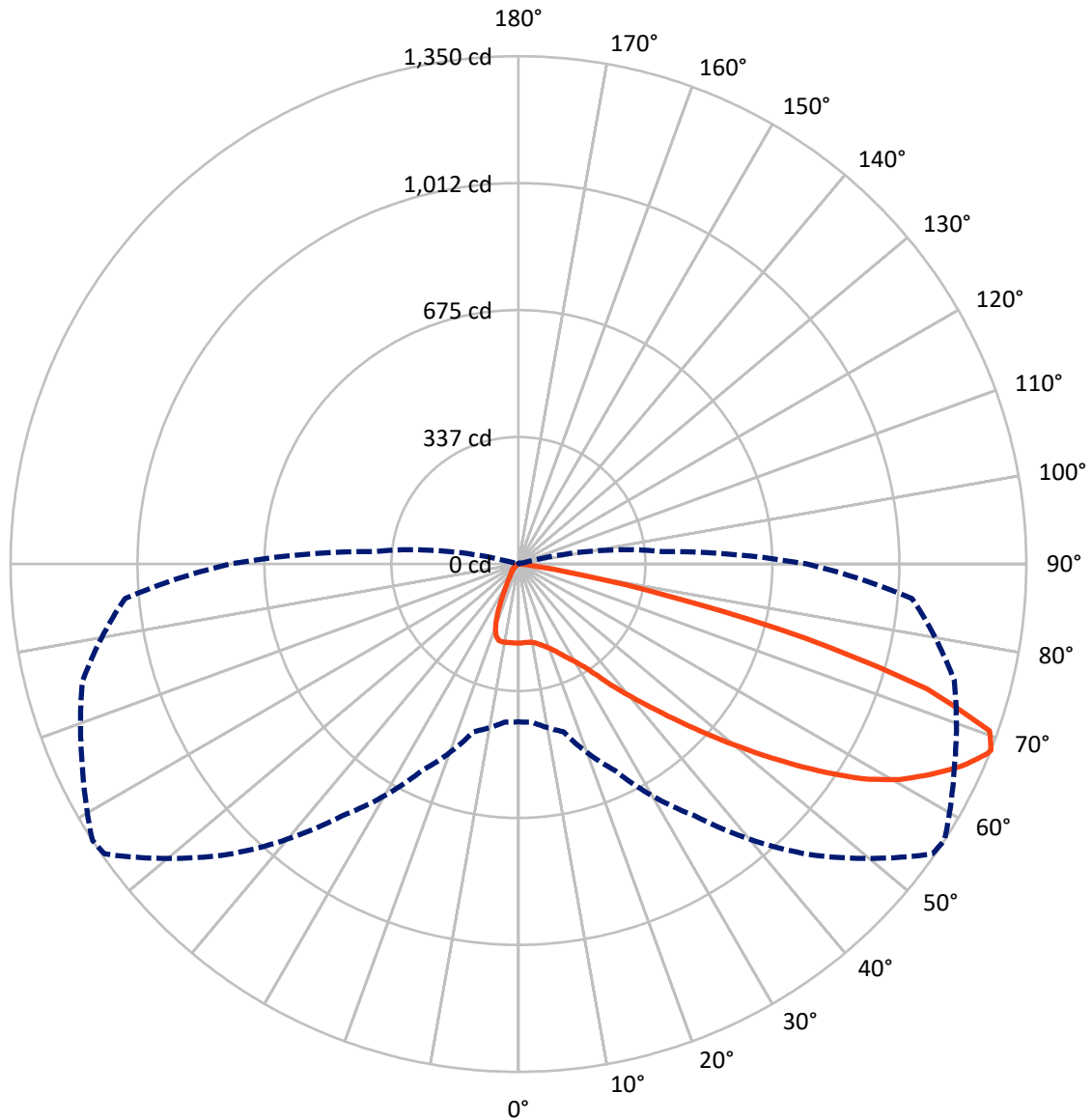


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P348807

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3-HSS

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P348807

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3-HSS

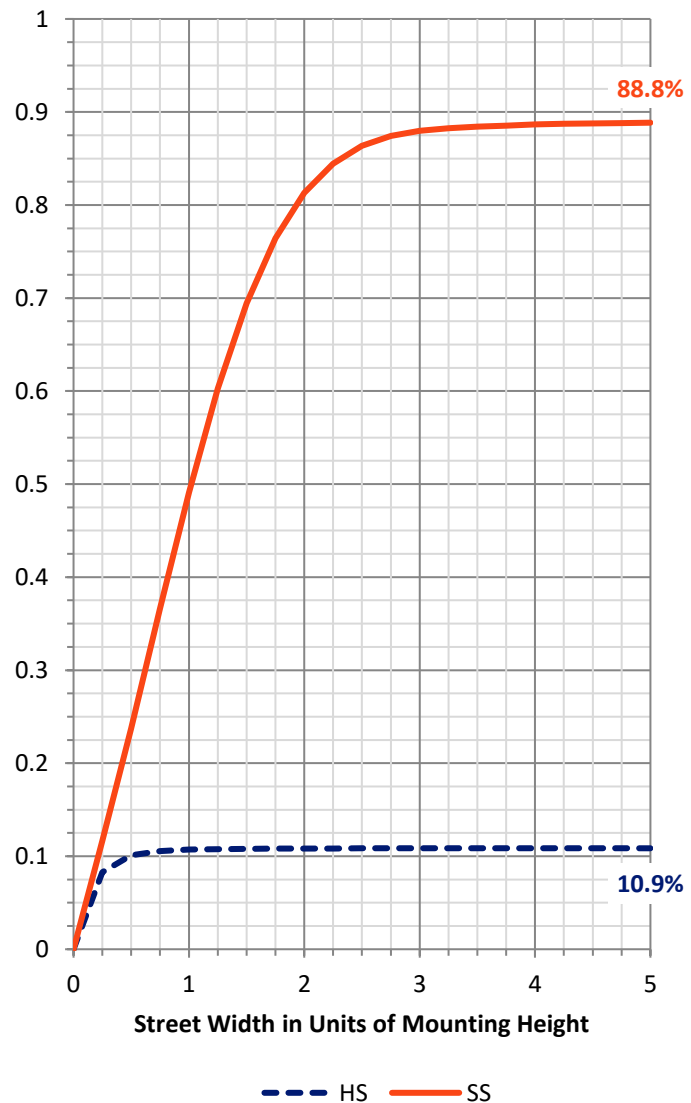
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	194.1	0.0	194.1
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	1575.9	0.0	1575.9
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	1770.0	0.0	1770.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.7	1.1
10°-20°	54.5	3.1
20°-30°	94.1	5.3
30°-40°	162.4	9.2
40°-50°	277.8	15.7
50°-60°	444.4	25.1
60°-70°	513.5	29.0
70°-80°	196.2	11.1
80°-90°	7.4	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°	1770.0	100.0
0°-180°	1770.0	100.0



REPORT NUMBER: P348807

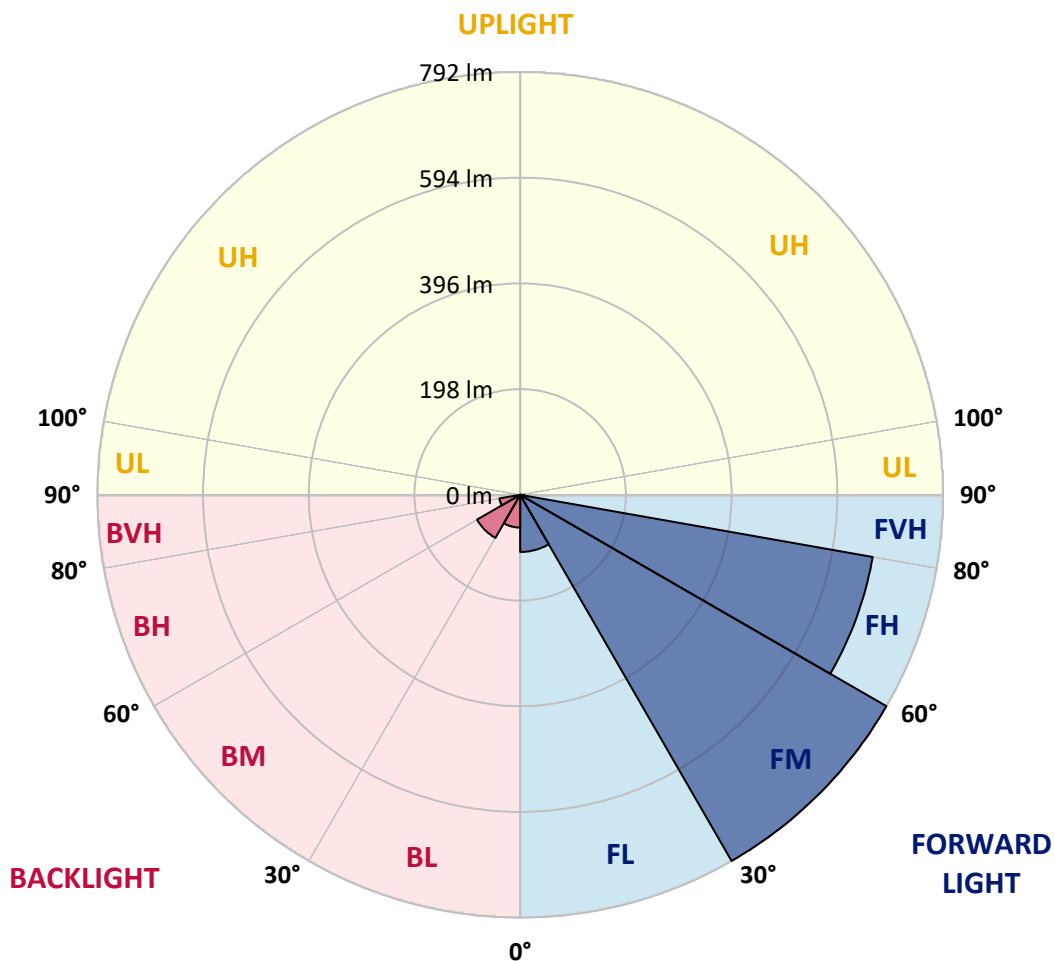
CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.0	6.0			
FM	(30°-60°)	791.5	44.7			
FH	(60°-80°)	670.2	37.9			G1/1800
FVH	(80°-90°)	7.2	0.4			G0/10
BL	(0°-30°)	61.3	3.5	B0/110		
BM	(30°-60°)	93.1	5.3	B0/220		
BH	(60°-80°)	39.5	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-G1**

Type III Short





REPORT NUMBER: P348807

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3
2.5°	205.4	206.3	207.0	207.4	207.9	209.0	209.3	209.8	210.1	210.1	210.7
5°	197.3	198.3	199.7	200.9	203.2	206.2	208.4	209.2	210.7	212.1	212.8
7.5°	189.7	190.9	192.6	195.3	199.4	204.2	208.7	209.9	212.8	215.7	217.1
10°	184.9	185.8	188.0	191.9	197.2	204.0	210.3	211.7	216.8	221.5	224.2
12.5°	183.2	184.0	186.3	190.7	197.3	205.2	214.0	216.1	223.5	230.4	234.2
15°	185.6	185.8	188.2	192.4	198.9	208.3	220.1	222.6	231.9	241.0	245.6
17.5°	195.0	194.3	195.5	197.4	202.5	212.4	226.6	230.3	242.7	253.3	257.8
20°	218.4	218.4	215.6	210.6	210.7	218.8	235.3	239.5	254.7	267.0	271.0
22.5°	258.5	257.8	252.1	239.8	228.5	229.7	245.9	251.4	269.1	282.2	283.6
25°	306.7	305.8	297.0	279.7	260.1	247.5	260.3	266.6	286.2	297.9	295.1
27.5°	357.8	357.0	348.3	326.8	299.0	275.8	277.4	283.5	303.7	315.2	306.4
30°	407.3	407.5	398.9	376.8	345.2	311.8	299.2	302.7	320.7	332.3	319.8
32.5°	454.3	454.6	447.2	422.5	393.0	353.8	329.3	328.4	340.5	351.9	337.5
35°	496.2	497.1	492.0	472.8	441.6	400.5	368.4	366.2	368.5	381.5	364.7
37.5°	536.6	537.1	533.3	517.1	491.0	451.8	417.8	414.7	409.8	419.8	400.6
40°	580.9	579.7	575.2	560.6	538.2	508.4	470.9	465.5	457.1	465.9	447.8
42.5°	622.1	620.7	621.4	604.9	585.9	566.7	532.7	523.5	518.6	528.8	505.8
45°	673.6	672.8	675.3	660.9	645.6	631.6	603.6	593.6	591.4	603.3	575.8
47.5°	724.4	726.2	734.0	727.9	721.7	709.4	678.7	674.2	675.5	690.0	649.7
50°	766.7	768.9	790.2	797.3	806.2	799.0	768.2	765.5	770.7	783.8	729.2
52.5°	797.4	801.8	828.3	860.7	893.3	898.2	867.5	865.0	872.1	874.1	790.7
55°	818.6	822.5	852.6	911.8	978.3	999.2	980.1	970.4	969.1	949.3	855.3
57.5°	822.4	822.0	865.1	944.9	1044.9	1098.9	1086.8	1077.3	1049.9	1018.7	929.3
60°	801.1	803.5	853.7	956.4	1086.8	1174.3	1175.2	1162.8	1120.1	1086.3	1001.1
62.5°	735.7	745.5	796.2	926.3	1086.3	1204.7	1240.0	1230.6	1179.4	1141.6	1074.0
65°	629.5	633.1	681.4	823.4	1012.9	1192.0	1298.3	1294.8	1232.9	1195.3	1111.4
67.5°	459.7	452.1	502.8	648.4	857.5	1117.8	1340.2	1344.6	1274.2	1206.4	1071.5
68°	419.6	421.8	461.3	605.1	816.9	1091.6	1343.0	1349.7	1278.3	1199.2	1049.8
70°	250.1	254.4	289.7	416.6	621.4	943.4	1313.2	1328.6	1253.8	1124.9	908.0
72.5°	63.9	69.0	102.4	186.5	354.9	664.7	1108.5	1134.7	1088.6	912.6	613.0
75°	26.3	27.6	36.6	61.4	132.2	299.5	730.6	786.7	754.7	546.4	277.0
77.5°	18.2	19.1	23.5	34.1	57.2	101.5	358.2	398.7	359.2	186.5	60.4
80°	13.1	13.8	16.8	22.7	32.9	36.2	116.8	135.0	107.2	40.9	15.0
82.5°	7.8	8.4	12.6	16.2	20.0	17.3	29.0	33.0	31.1	20.3	6.7
85°	3.8	4.5	8.5	11.5	10.8	7.3	8.9	9.9	12.2	12.4	3.6
87.5°	0.3	0.5	4.9	6.9	3.0	1.7	2.6	3.2	4.4	6.1	1.5
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: P348807

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3
2.5°	210.9	211.0	210.4	210.2	210.3	209.3	208.9	209.1	209.1	209.3	208.9
5°	213.0	213.0	212.0	210.7	209.9	208.0	206.7	206.4	206.1	206.0	205.6
7.5°	217.5	217.0	215.3	212.3	209.8	205.6	202.5	200.8	199.9	199.6	199.4
10°	224.8	223.9	221.0	215.5	209.7	202.3	195.3	190.4	186.3	184.6	183.6
12.5°	234.6	233.3	228.3	219.3	209.2	195.4	180.4	165.9	152.4	146.9	144.1
15°	245.9	244.0	236.2	222.5	205.7	179.9	147.2	121.9	103.2	96.2	93.2
17.5°	257.4	254.8	243.0	224.5	195.4	147.9	103.3	78.0	65.5	62.2	61.0
20°	268.9	265.2	249.0	223.0	172.2	106.6	68.1	57.0	53.4	52.4	52.1
22.5°	279.9	274.2	254.3	217.1	136.3	71.6	53.9	50.4	49.2	48.6	48.5
25°	289.4	281.5	259.0	199.0	96.5	54.1	48.5	47.4	45.9	44.8	44.9
27.5°	298.4	288.7	261.9	169.2	64.4	46.2	44.9	43.4	40.6	39.0	39.0
30°	309.2	298.5	264.0	130.2	47.4	40.8	39.8	37.4	33.6	31.6	31.6
32.5°	325.4	313.2	262.6	91.4	39.3	35.9	33.6	30.2	26.1	24.1	24.0
35°	350.3	335.9	253.1	59.9	34.6	31.2	27.5	23.4	19.8	18.1	18.0
37.5°	383.7	366.4	231.7	42.9	31.1	26.9	22.3	17.8	15.1	14.1	14.0
40°	427.2	401.8	201.0	34.7	27.7	22.7	17.2	13.8	12.0	11.1	11.2
42.5°	479.3	439.7	164.3	30.0	24.4	18.7	13.5	10.9	9.7	9.1	9.0
45°	537.2	477.1	125.8	26.7	21.2	15.1	10.5	8.6	7.7	7.4	7.4
47.5°	600.9	513.5	92.1	23.9	17.7	11.6	8.5	7.0	6.3	6.0	5.9
50°	658.8	538.8	66.4	20.8	14.5	9.2	6.9	5.9	5.4	5.0	5.0
52.5°	707.0	546.8	48.9	17.6	11.7	7.4	5.7	5.0	4.5	4.3	4.3
55°	749.4	543.5	36.3	14.5	9.5	6.0	4.9	4.3	3.8	3.6	3.6
57.5°	790.1	533.0	27.1	11.8	7.6	4.9	4.1	3.6	3.2	3.0	3.0
60°	823.3	515.4	20.2	9.5	6.1	3.9	3.4	2.9	2.6	2.3	2.3
62.5°	850.2	496.0	14.8	7.9	4.9	3.1	2.7	2.4	1.9	1.7	1.7
65°	850.4	463.7	11.1	6.5	3.8	2.4	2.0	1.9	1.3	1.0	0.9
67.5°	788.9	399.8	8.5	5.6	2.9	1.8	1.5	1.6	0.7	0.4	0.3
68°	766.6	383.6	8.0	5.5	2.8	1.8	1.4	1.6	0.6	0.3	0.3
70°	646.3	305.1	6.4	5.4	2.4	1.3	1.2	1.6	0.5	0.3	0.2
72.5°	413.4	177.1	4.8	4.3	1.8	1.0	0.8	1.4	0.5	0.2	0.1
75°	175.9	54.9	3.3	3.0	1.1	0.8	0.5	0.9	0.3	0.1	0.0
77.5°	37.1	12.4	1.9	1.8	0.8	0.5	0.3	0.3	0.1	0.0	0.0
80°	9.5	3.6	1.0	0.9	0.4	0.3	0.2	0.0	0.0	0.0	0.0
82.5°	3.0	1.4	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	0.8	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	0.0	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)