

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: P348982

Luminaire Tested: **ARCH-N-PA1-19-730-U-T2U-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-19-730-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1964 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B0 - U0 - G0

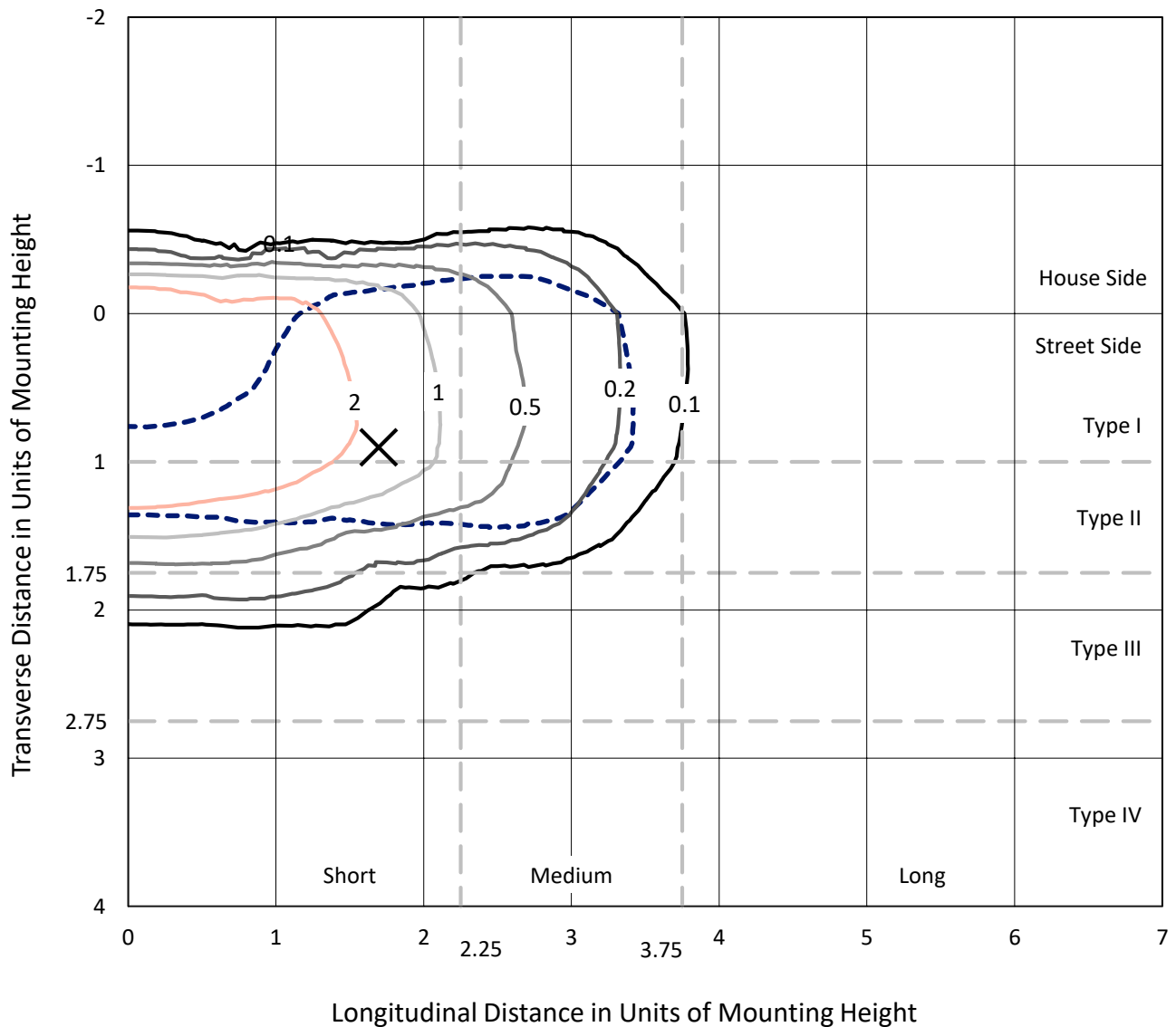
Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

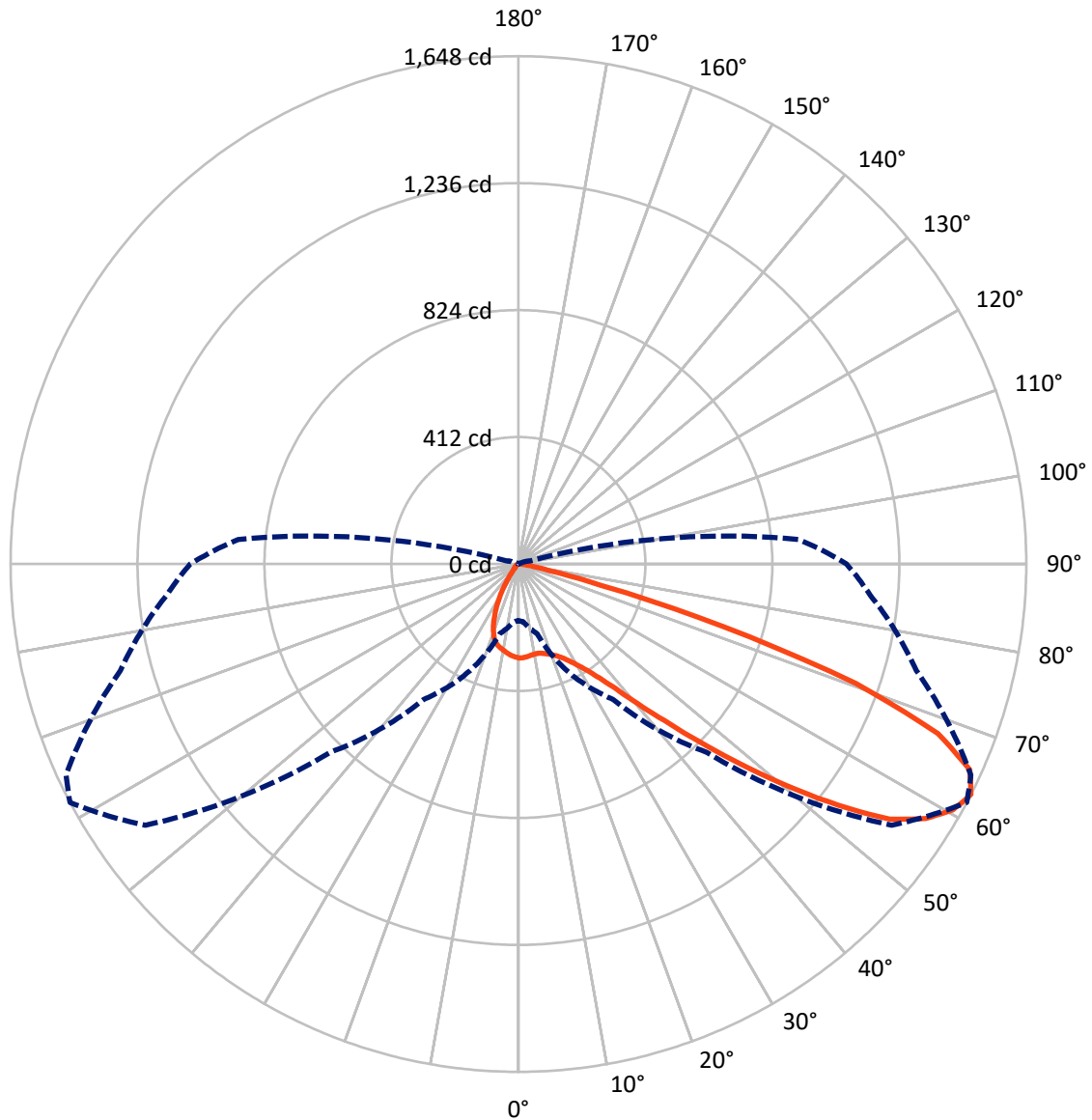
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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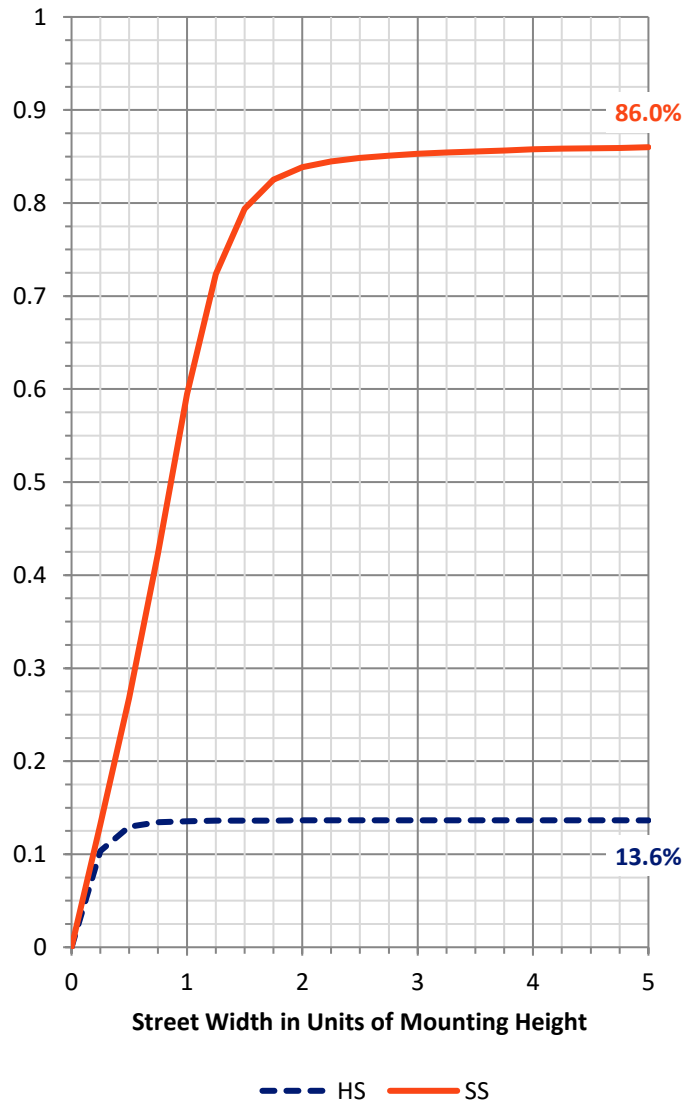
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	271.2	0.0	271.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	1692.8	0.0	1692.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	1964.0	0.0	1964.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.8	1.4
10°-20°	69.8	3.6
20°-30°	104.2	5.3
30°-40°	198.4	10.1
40°-50°	413.8	21.1
50°-60°	549.8	28.0
60°-70°	428.6	21.8
70°-80°	162.0	8.2
80°-90°	9.7	0.5
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°	1964.0	100.0
0°-180°	1964.0	100.0



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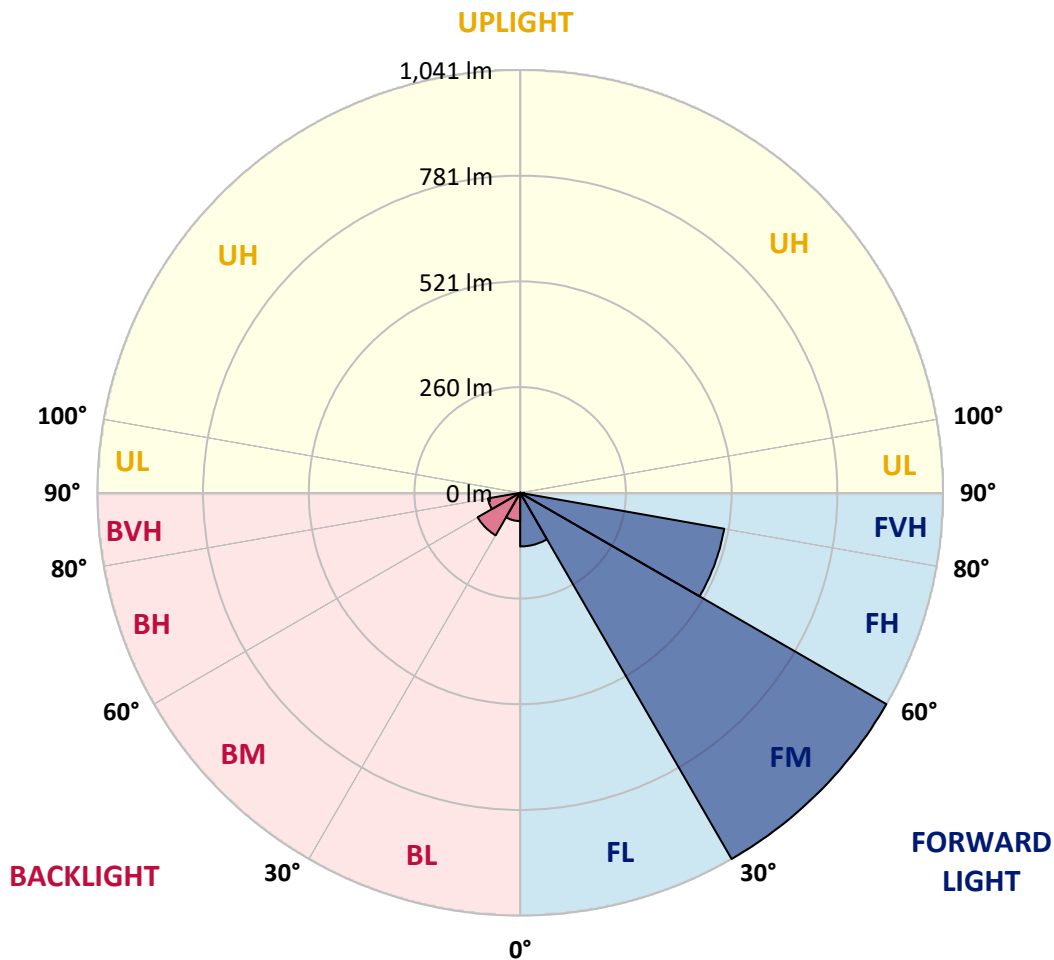
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	132.2	6.7			
FM (30°-60°)	1041.3	53.0			
FH (60°-80°)	510.1	26.0			G0/660
FVH (80°-90°)	9.2	0.5			G0/10
BL (0°-30°)	69.5	3.5	B0/110		
BM (30°-60°)	120.7	6.1	B0/220		
BH (60°-80°)	80.4	4.1	B0/110		G0/110
BVH (80°-90°)	0.5	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	305.1	305.1	305.1	305.1	305.1	305.1	305.1	305.1	305.1	305.1	305.1
2.5°	304.1	303.6	304.9	304.9	304.6	305.1	304.6	304.4	304.1	303.6	303.1
5°	296.1	296.1	297.9	298.7	299.5	301.0	301.5	302.0	301.8	302.3	302.6
7.5°	286.9	287.4	289.5	290.5	291.8	294.9	296.7	298.7	299.0	300.8	301.8
10°	279.2	279.7	281.8	283.1	284.8	289.0	292.8	296.4	296.9	300.2	301.0
12.5°	274.1	274.6	276.6	278.4	282.3	287.4	292.8	296.9	298.2	302.3	302.3
15°	272.0	272.5	275.1	278.2	283.3	290.0	296.7	301.0	303.6	306.9	305.4
17.5°	271.2	272.3	276.6	281.3	286.9	294.1	302.3	306.9	309.5	313.1	309.7
20°	273.6	274.8	280.5	286.9	292.8	300.2	309.2	314.4	316.9	319.2	312.8
22.5°	281.8	283.8	288.7	295.9	300.5	309.5	318.5	324.4	327.2	326.9	318.5
25°	301.5	304.1	306.4	310.3	312.3	323.1	332.6	338.5	340.5	339.8	330.0
27.5°	348.2	351.6	343.4	334.9	330.3	340.3	350.8	357.0	358.8	357.2	342.3
30°	427.0	427.3	408.5	381.9	362.1	361.1	373.9	382.1	382.1	379.0	359.8
32.5°	541.7	533.5	509.9	462.7	418.0	394.7	404.4	412.4	412.4	408.5	386.5
35°	685.9	679.8	640.8	584.1	504.5	448.6	446.5	454.2	454.5	453.5	428.3
37.5°	832.7	817.6	785.0	717.0	623.6	531.5	506.8	512.2	516.1	515.6	484.2
40°	969.3	954.1	926.7	861.2	769.9	653.6	594.6	594.6	594.8	592.3	554.6
42.5°	1076.5	1069.6	1049.1	1003.6	933.1	845.8	712.9	693.4	689.3	686.7	637.2
45°	1146.1	1138.9	1127.9	1118.4	1095.5	1064.2	871.7	820.7	814.0	788.9	728.5
47.5°	1149.9	1138.9	1146.3	1182.3	1233.8	1250.0	1067.8	969.0	951.3	905.9	820.2
50°	1064.2	1065.2	1094.2	1181.5	1320.8	1413.0	1275.7	1132.2	1104.2	1013.4	901.0
52.5°	906.6	916.9	961.8	1096.0	1324.9	1517.1	1456.6	1300.6	1245.1	1109.9	958.0
55°	709.8	719.1	792.4	937.7	1225.1	1532.0	1588.2	1461.7	1388.3	1177.1	1009.0
57.5°	502.0	519.4	610.5	743.9	1034.7	1418.3	1624.2	1558.2	1487.1	1242.6	1057.0
60°	305.1	313.8	408.5	563.8	779.9	1180.5	1582.1	1619.8	1562.3	1299.3	1101.9
62.5°	183.5	188.6	234.0	388.3	536.6	864.3	1477.9	1648.0	1619.8	1337.0	1145.0
65°	108.6	111.9	133.2	234.6	357.5	530.2	1252.8	1609.3	1632.1	1369.6	1170.2
67.5°	78.3	79.3	87.0	126.3	239.9	284.1	871.2	1468.1	1553.6	1380.4	1155.3
70°	67.5	68.8	76.2	88.8	169.9	167.6	453.5	1162.0	1317.0	1324.2	1092.4
72.5°	51.1	53.4	65.7	83.4	121.9	119.1	170.9	692.9	894.1	1087.0	941.8
75°	34.6	35.9	48.8	70.8	95.2	88.8	89.6	278.2	437.3	681.6	647.2
77.5°	21.8	22.8	29.8	50.8	81.6	62.6	63.4	98.8	157.8	289.0	277.4
80°	14.9	15.4	18.0	32.8	55.2	54.4	40.8	51.6	58.8	89.0	59.8
82.5°	9.0	9.0	11.8	19.5	33.4	43.1	25.7	28.5	31.3	33.1	13.6
85°	3.1	3.3	7.2	12.1	20.5	21.6	14.6	16.9	17.7	19.2	6.4
87.5°	1.3	1.0	3.8	6.7	8.7	10.0	8.5	7.7	8.5	11.3	2.8
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°	305.1	305.1	305.1	305.1	305.1	305.1	305.1	305.1	305.1	305.1	305.1
2.5°	303.3	302.3	302.3	302.0	300.5	299.7	299.0	296.9	298.2	296.7	295.6
5°	301.8	301.0	299.7	298.5	294.9	291.8	290.5	287.9	287.7	285.6	284.6
7.5°	301.5	299.7	297.7	293.3	287.9	283.1	278.7	274.3	272.5	270.2	268.9
10°	300.2	297.9	294.1	287.2	279.2	271.5	261.8	249.7	240.7	235.6	234.8
12.5°	300.5	297.9	292.0	281.8	271.2	254.3	228.1	200.7	178.1	168.6	167.1
15°	302.6	299.7	290.8	276.9	258.9	221.7	173.7	131.6	102.4	91.9	89.6
17.5°	305.1	300.2	287.9	270.0	235.3	171.9	109.3	69.0	52.6	46.7	45.7
20°	306.7	300.0	283.3	259.4	199.4	115.0	59.5	40.5	35.7	34.4	33.9
22.5°	310.5	300.8	279.5	243.0	154.2	69.3	37.7	31.6	28.7	27.2	26.9
25°	318.5	305.9	279.7	221.7	108.0	41.8	30.5	25.7	23.1	21.6	21.0
27.5°	330.0	315.1	284.6	195.3	66.7	31.6	25.4	20.8	18.0	16.7	16.4
30°	344.6	326.4	290.2	160.9	41.6	26.4	20.5	16.2	14.1	13.3	13.1
32.5°	367.7	345.9	295.1	120.4	28.7	21.8	16.2	12.8	11.5	10.8	10.8
35°	406.0	379.5	303.1	80.6	22.8	17.5	13.1	10.5	9.5	9.0	9.0
37.5°	459.9	427.5	306.9	50.0	18.7	13.6	10.5	8.7	8.0	7.4	7.4
40°	525.6	485.8	301.5	31.1	15.7	11.0	8.7	7.4	6.7	6.4	6.4
42.5°	601.3	552.8	284.6	22.1	13.1	9.0	7.4	6.4	5.9	5.6	5.6
45°	685.9	626.2	254.1	18.5	11.0	7.7	6.4	5.4	5.1	4.9	4.9
47.5°	770.4	700.6	214.5	15.9	9.2	6.4	5.4	4.6	4.4	4.1	4.1
50°	844.0	765.8	172.7	13.9	7.7	5.6	4.6	3.8	3.6	3.3	3.3
52.5°	886.1	804.5	133.7	11.5	6.7	4.9	3.6	3.1	2.8	2.6	2.6
55°	931.5	836.8	99.8	9.8	5.4	4.1	2.8	2.3	2.1	1.8	1.8
57.5°	973.9	865.8	74.2	8.0	4.6	3.1	2.3	1.8	1.5	1.3	1.3
60°	1014.9	890.5	54.9	6.4	3.8	2.6	1.8	1.3	1.0	0.8	0.8
62.5°	1065.0	913.1	40.3	5.1	3.3	1.8	1.3	0.8	0.5	0.3	0.3
65°	1102.2	924.6	30.3	3.8	2.8	1.3	0.8	0.5	0.0	0.0	0.0
67.5°	1101.9	902.3	22.1	2.8	2.1	1.0	0.5	0.0	0.0	0.0	0.0
70°	1050.4	834.5	15.4	2.3	1.5	0.8	0.3	0.0	0.0	0.0	0.0
72.5°	900.7	660.0	10.0	1.5	1.3	0.5	0.3	0.0	0.0	0.0	0.0
75°	607.9	335.1	5.9	1.3	1.0	0.5	0.3	0.0	0.0	0.0	0.0
77.5°	260.0	131.6	3.1	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0
80°	54.4	31.8	1.3	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.2	4.6	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	1.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.3	0.3	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)