

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: P348758

Luminaire Tested: **ARCH-N-PA1-19-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
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-T2R-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: 2174 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B0 - U0 - G0

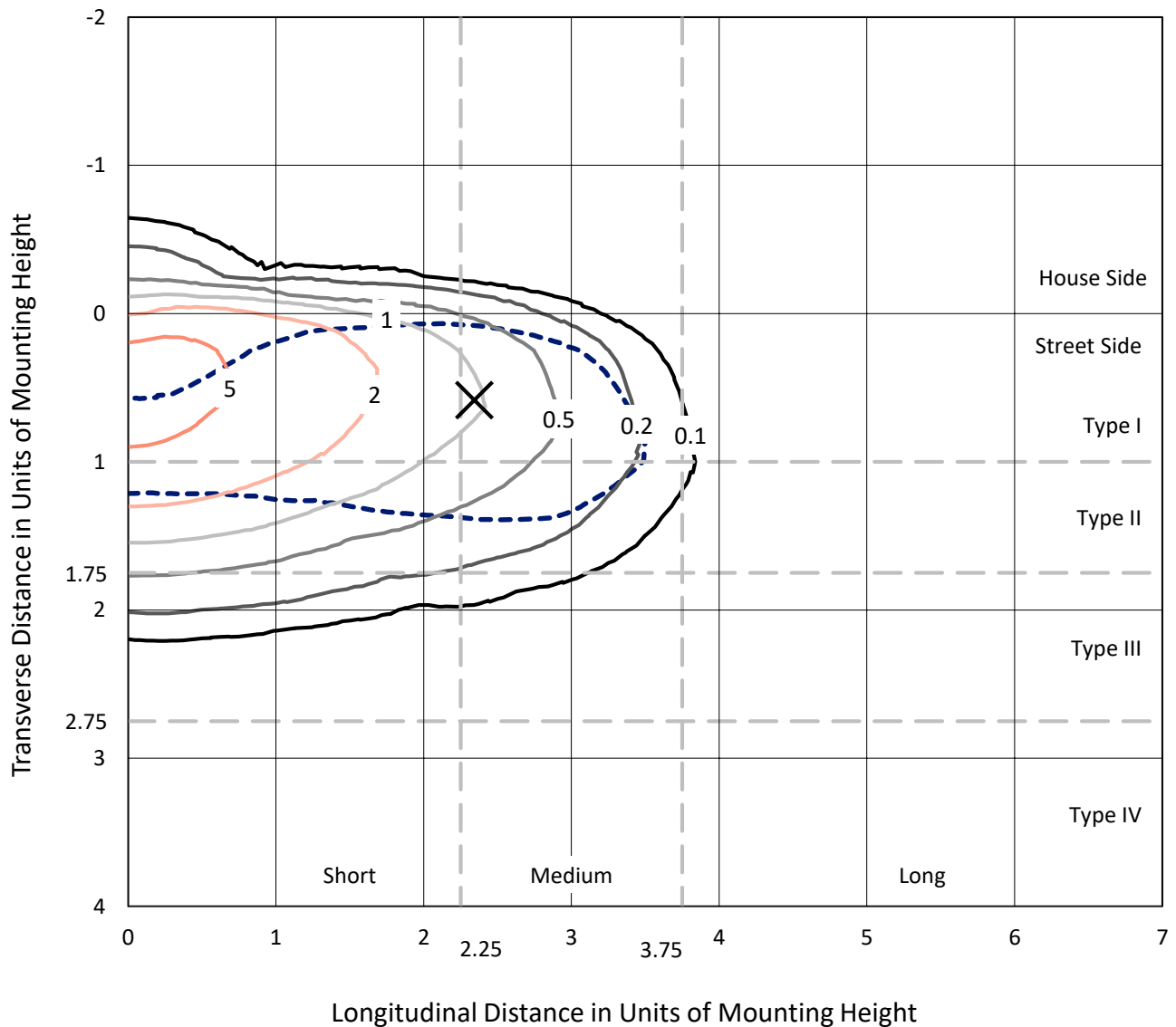
Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

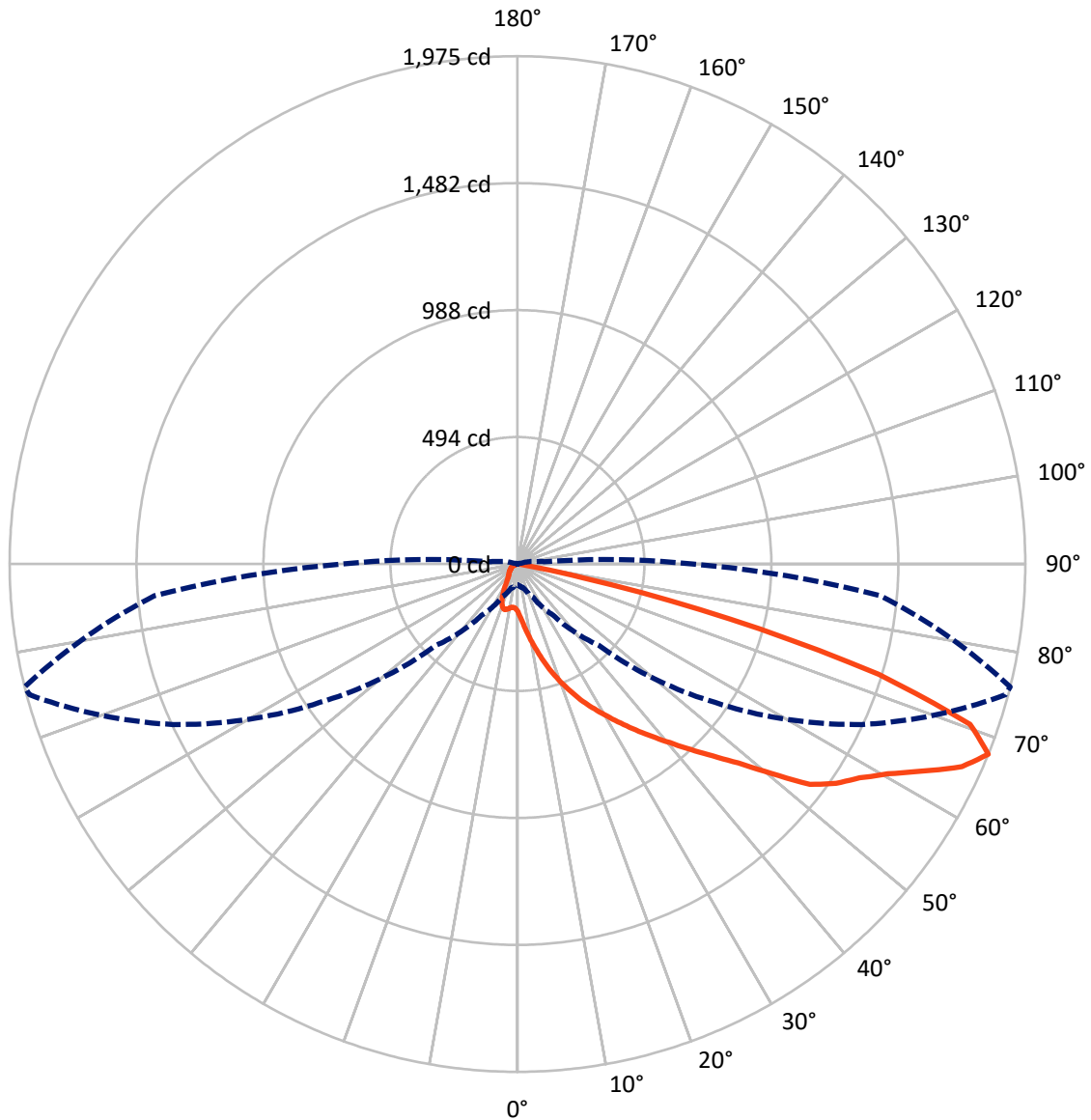
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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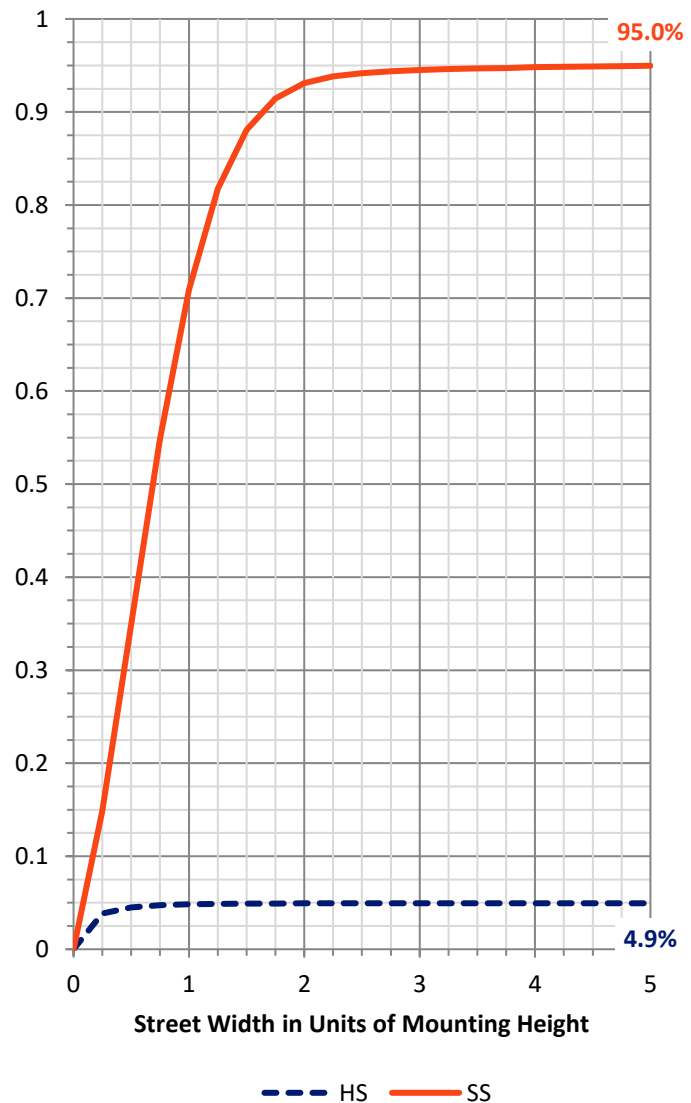
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	108.0	0.0	108.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	2066.0	0.0	2066.0
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	2174.0	0.0	2174.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.9	1.1
10°-20°	90.9	4.2
20°-30°	185.0	8.5
30°-40°	321.0	14.8
40°-50°	453.6	20.9
50°-60°	514.4	23.7
60°-70°	426.6	19.6
70°-80°	154.5	7.1
80°-90°	5.0	0.2
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°	2174.0	100.0
0°-180°	2174.0	100.0



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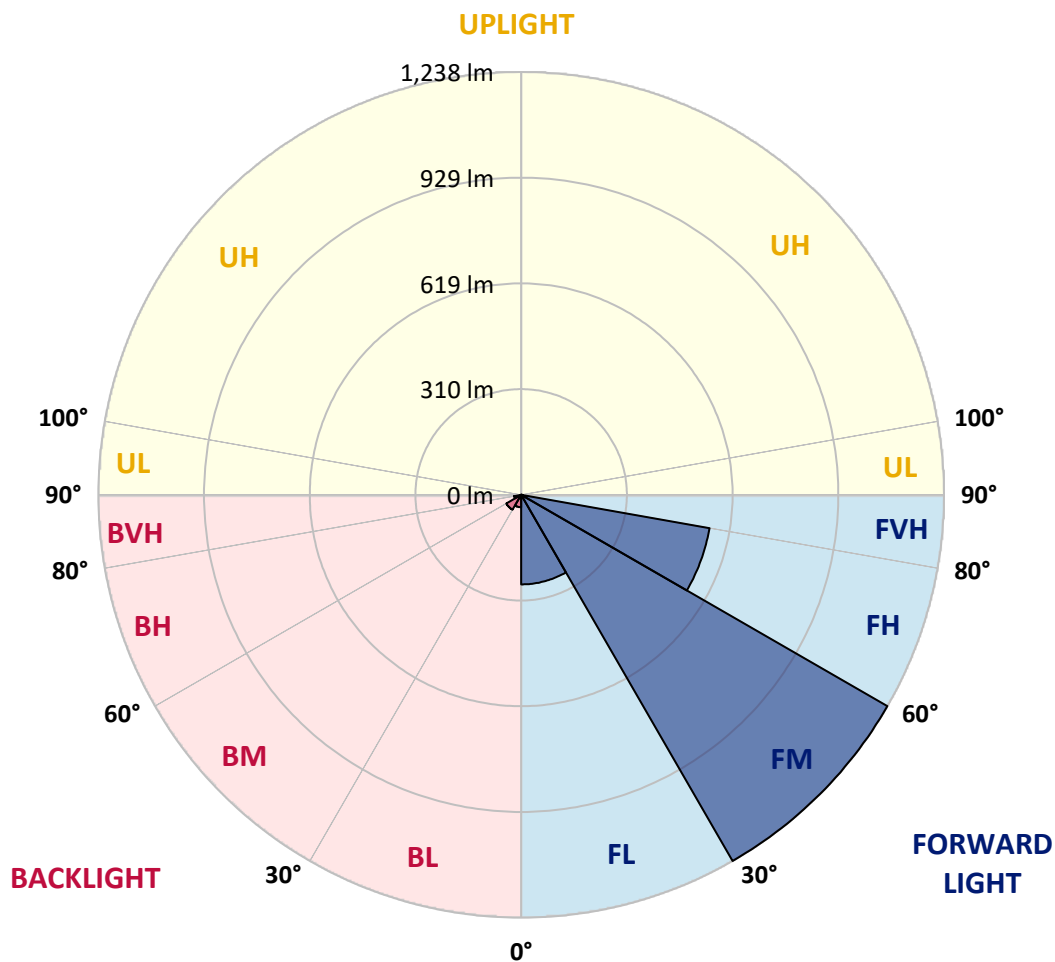
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.4	12.1			
FM	(30°-60°)	1238.5	57.0			
FH	(60°-80°)	560.3	25.8			G0/660
FVH	(80°-90°)	4.9	0.2			G0/10
BL	(0°-30°)	36.4	1.7	B0/110		
BM	(30°-60°)	50.5	2.3	B0/220		
BH	(60°-80°)	20.9	1.0	B0/110		G0/110
BVH	(80°-90°)	0.2	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4
2.5°	275.3	269.1	270.5	266.5	259.3	244.4	231.8	219.8	205.8	205.3	193.8
5°	371.2	366.0	365.3	357.2	344.1	318.8	294.2	266.2	235.0	232.7	208.2
7.5°	458.3	454.1	452.6	442.9	418.5	393.9	361.9	320.7	271.9	267.7	227.8
10°	525.2	523.2	523.5	516.7	495.7	472.9	430.8	378.4	313.7	307.2	251.2
12.5°	575.8	576.3	579.7	575.5	563.8	546.9	502.0	439.8	360.0	351.1	278.0
15°	613.1	615.5	621.7	627.0	626.1	611.5	570.3	502.2	409.1	399.3	307.8
17.5°	637.2	639.8	649.0	660.6	671.3	667.8	636.2	562.4	458.9	447.5	339.7
20°	658.3	661.5	671.3	686.6	706.5	710.8	690.0	620.8	508.5	494.7	372.6
22.5°	704.1	704.0	710.0	719.0	738.0	749.0	735.9	675.0	557.5	543.2	406.3
25°	787.0	783.9	781.8	774.7	778.9	785.8	778.4	725.7	606.9	592.3	440.4
27.5°	885.5	887.4	870.5	851.5	836.8	829.8	817.8	772.6	654.3	638.3	473.7
30°	989.4	990.0	970.0	945.8	913.5	886.8	866.0	817.5	703.1	685.7	506.1
32.5°	1083.2	1079.5	1059.6	1026.7	985.9	955.8	912.7	867.6	754.7	737.9	542.1
35°	1157.5	1153.1	1129.0	1099.0	1056.7	1026.4	974.5	917.6	809.0	792.5	578.2
37.5°	1211.8	1206.6	1181.9	1151.0	1114.5	1096.9	1046.2	972.0	868.3	850.6	616.2
40°	1230.6	1226.2	1210.6	1188.0	1158.7	1154.7	1122.3	1034.6	932.8	913.9	659.3
42.5°	1219.4	1215.0	1209.5	1201.9	1189.7	1193.5	1194.1	1105.9	1004.4	985.8	706.8
45°	1174.8	1170.9	1176.6	1187.8	1202.9	1221.8	1259.7	1182.6	1084.4	1064.6	761.8
47.5°	1109.2	1106.3	1122.1	1149.9	1194.2	1246.3	1319.6	1263.2	1174.2	1155.9	830.4
50°	1015.8	1015.3	1047.0	1097.7	1165.9	1258.1	1381.5	1354.8	1299.0	1279.7	925.7
52.5°	870.5	871.4	933.6	1014.9	1116.0	1250.1	1421.3	1472.6	1444.2	1424.1	1008.3
55°	732.1	737.8	781.9	899.0	1039.6	1220.3	1435.1	1527.5	1524.3	1505.3	1054.2
57.5°	596.5	606.9	649.4	758.8	928.1	1151.9	1427.5	1551.4	1583.9	1569.4	1114.8
60°	449.6	454.4	503.3	605.6	784.9	1026.9	1372.9	1564.3	1665.5	1655.4	1202.7
62.5°	286.1	298.0	341.4	440.1	611.2	853.3	1280.9	1564.1	1767.5	1773.0	1316.2
65°	150.7	164.6	187.7	272.7	420.0	659.5	1142.5	1549.5	1892.7	1900.4	1404.9
67.5°	81.3	85.3	97.4	141.6	243.6	446.8	939.1	1477.1	1965.2	1975.4	1417.2
70°	59.4	61.6	66.2	78.3	122.6	259.5	685.3	1312.9	1871.7	1867.9	1259.2
72.5°	45.6	49.1	52.5	57.3	70.5	138.5	426.7	1028.1	1493.4	1468.3	941.2
75°	36.0	36.6	41.4	45.8	52.9	78.9	189.5	598.8	911.5	852.0	488.1
77.5°	28.8	29.1	32.0	35.8	42.5	51.8	58.7	235.6	291.0	259.7	105.9
80°	17.1	18.0	23.8	27.6	35.2	32.7	21.4	51.2	45.4	41.2	17.8
82.5°	9.5	10.3	13.4	21.8	24.6	15.6	10.7	13.8	10.7	10.4	5.0
85°	0.0	0.5	8.7	13.5	10.0	3.4	4.5	4.6	3.1	3.0	2.0
87.5°	0.0	0.0	2.7	2.6	0.4	0.6	1.0	1.5	1.2	1.2	1.0
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°	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4
2.5°	188.0	182.9	173.2	163.7	155.7	149.1	143.2	140.8	138.9	138.6	137.1
5°	196.4	186.0	167.5	152.2	142.0	134.8	128.6	124.8	121.8	120.7	119.6
7.5°	209.1	193.4	166.7	149.2	137.0	124.8	113.4	101.0	93.3	90.3	88.6
10°	224.5	203.1	169.6	148.3	127.0	101.3	82.3	66.6	60.2	58.1	57.5
12.5°	242.5	215.2	174.5	143.0	105.6	71.9	56.8	51.4	50.0	49.3	49.3
15°	263.2	228.4	178.0	127.5	78.1	54.4	49.2	46.7	45.2	44.3	44.4
17.5°	284.3	241.4	176.3	105.2	57.6	48.4	44.5	41.8	39.7	38.9	38.7
20°	305.7	253.4	166.8	78.3	48.8	43.9	39.5	36.6	34.5	33.6	33.4
22.5°	327.8	263.6	150.0	57.4	43.8	39.0	34.7	31.7	29.7	29.0	28.6
25°	349.3	271.9	126.6	46.5	39.2	34.3	30.2	27.4	25.6	24.9	24.8
27.5°	369.4	277.1	99.4	41.1	35.1	30.1	26.4	23.9	22.4	21.8	21.7
30°	387.5	277.6	73.5	37.1	31.4	26.5	23.1	20.9	19.5	19.0	18.8
32.5°	405.8	273.6	53.5	33.4	28.1	23.3	20.0	18.3	17.3	16.9	16.9
35°	423.0	264.3	41.7	30.3	24.9	20.3	17.6	16.4	15.8	15.3	15.3
37.5°	439.9	251.1	35.4	27.5	21.8	17.7	15.5	14.8	14.3	13.8	13.8
40°	457.0	234.4	32.2	25.0	19.3	15.7	13.8	13.1	12.7	12.3	12.2
42.5°	478.1	215.2	30.1	22.6	17.1	13.9	12.2	11.4	11.0	10.7	10.5
45°	502.5	198.6	28.4	20.2	15.3	12.4	10.6	9.8	9.2	8.8	8.7
47.5°	537.6	186.6	26.1	17.6	13.6	10.8	9.1	8.3	7.4	7.0	6.9
50°	582.5	176.7	23.1	15.3	11.9	9.1	7.6	6.6	5.8	5.3	5.3
52.5°	604.8	163.7	20.5	13.3	10.0	7.7	6.2	5.0	4.6	4.1	4.1
55°	613.7	153.8	17.8	11.3	8.3	6.4	4.9	3.8	3.5	3.2	3.1
57.5°	638.9	151.0	15.5	9.6	6.9	5.0	3.7	2.9	2.7	2.3	2.3
60°	679.4	152.4	13.4	8.2	5.5	3.9	2.8	2.2	2.0	1.6	1.6
62.5°	723.1	150.6	11.3	7.0	4.3	2.9	1.9	1.6	1.6	1.0	0.9
65°	731.5	134.1	9.7	5.8	3.3	2.1	1.2	1.0	1.4	0.2	0.0
67.5°	678.9	104.0	8.4	4.5	2.5	1.6	1.0	0.5	1.2	0.0	0.0
70°	542.9	66.1	6.8	3.2	1.9	1.3	0.8	0.2	1.0	0.0	0.0
72.5°	383.9	38.4	5.3	2.3	1.6	1.0	0.6	0.0	0.6	0.0	0.0
75°	194.1	20.5	3.3	1.7	1.2	0.8	0.4	0.0	0.1	0.0	0.0
77.5°	42.0	9.5	2.1	1.2	0.9	0.5	0.2	0.0	0.0	0.0	0.0
80°	9.1	4.2	1.3	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	2.2	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.4	0.1	0.1	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)