

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: P348772

Luminaire Tested: **ARCH-N-PA1-19-750-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348772  
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-PA1-19-750-U-T2R-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 370mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2387 lumens  
Efficiency: N/A  
Efficacy: 125.6 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

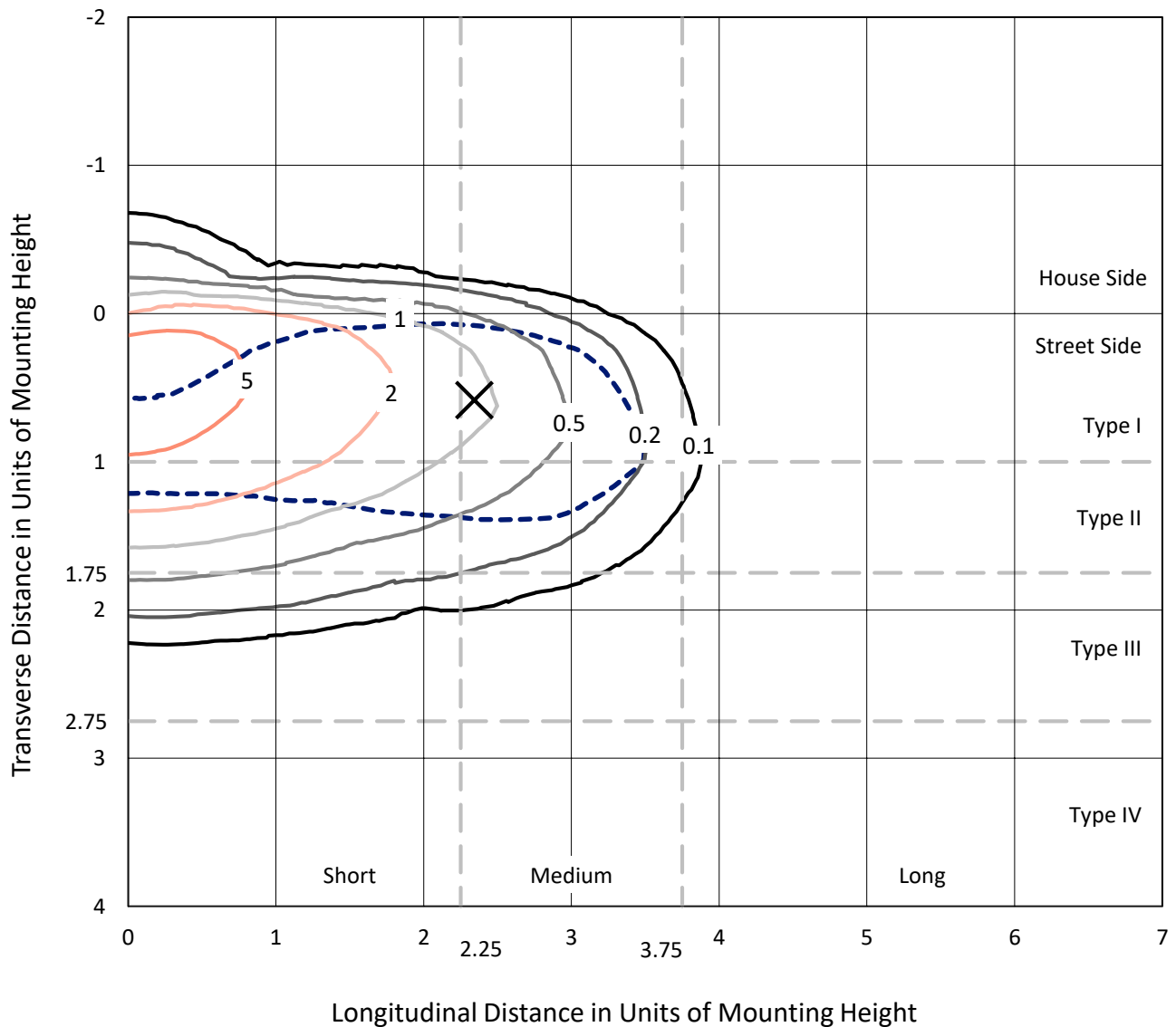
Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

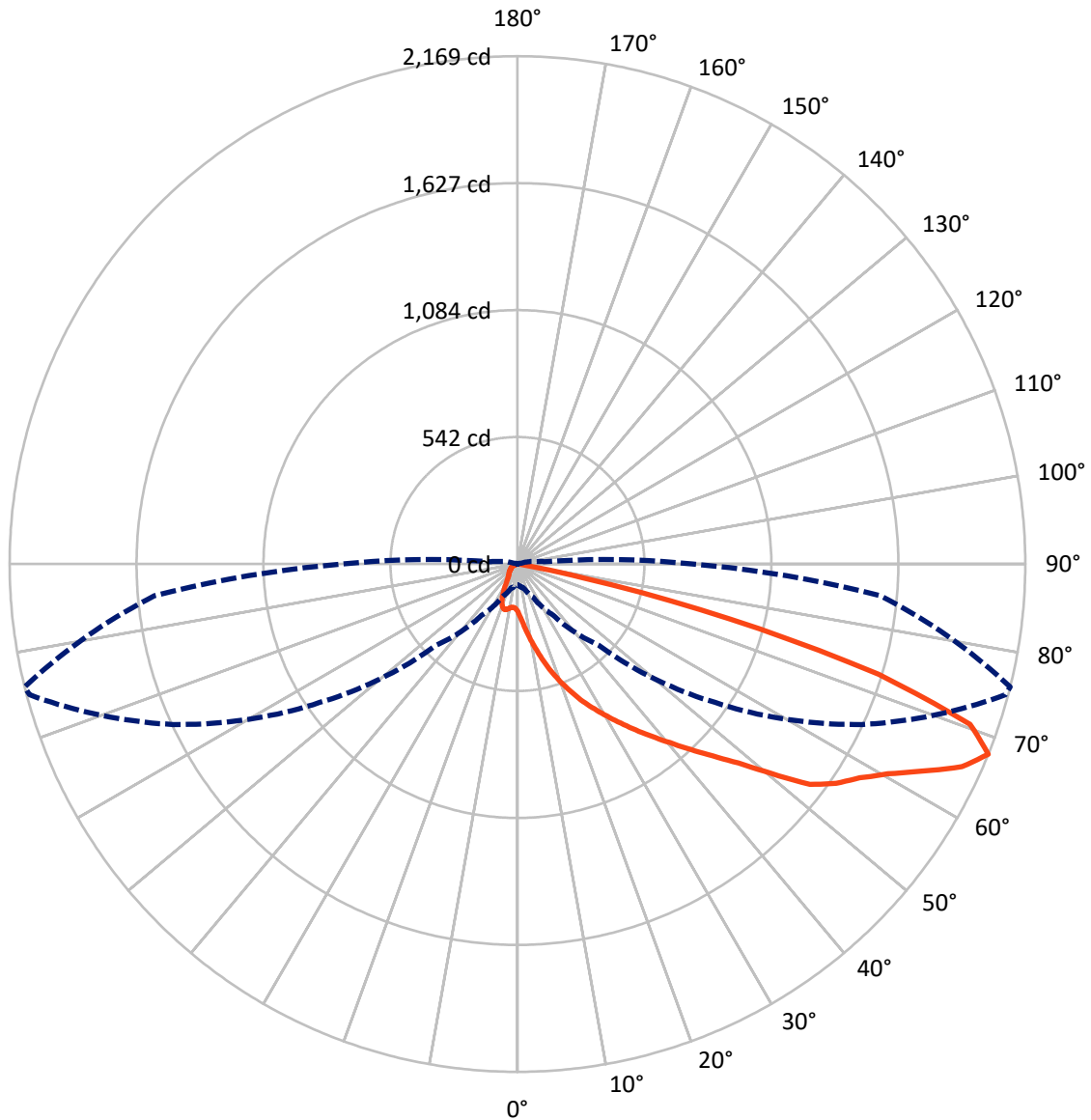
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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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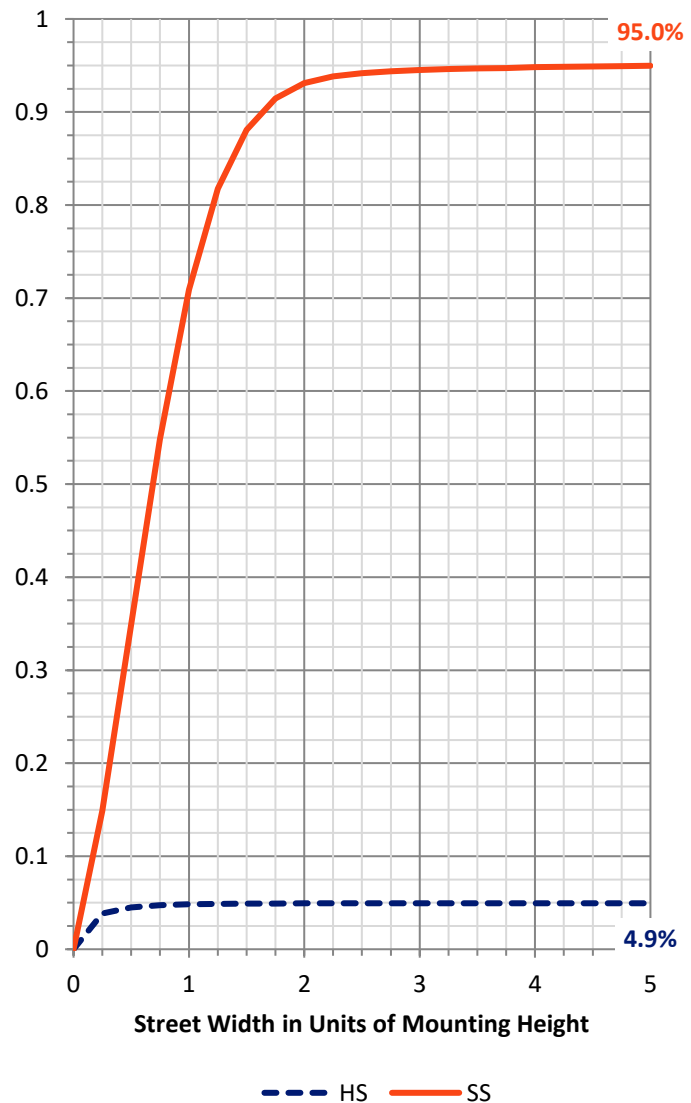
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	118.5	0.0	118.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	2268.5	0.0	2268.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	2387.0	0.0	2387.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.2	1.1
10°-20°	99.8	4.2
20°-30°	203.1	8.5
30°-40°	352.5	14.8
40°-50°	498.0	20.9
50°-60°	564.8	23.7
60°-70°	468.4	19.6
70°-80°	169.7	7.1
80°-90°	5.5	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°	2387.0	100.0
0°-180°	2387.0	100.0



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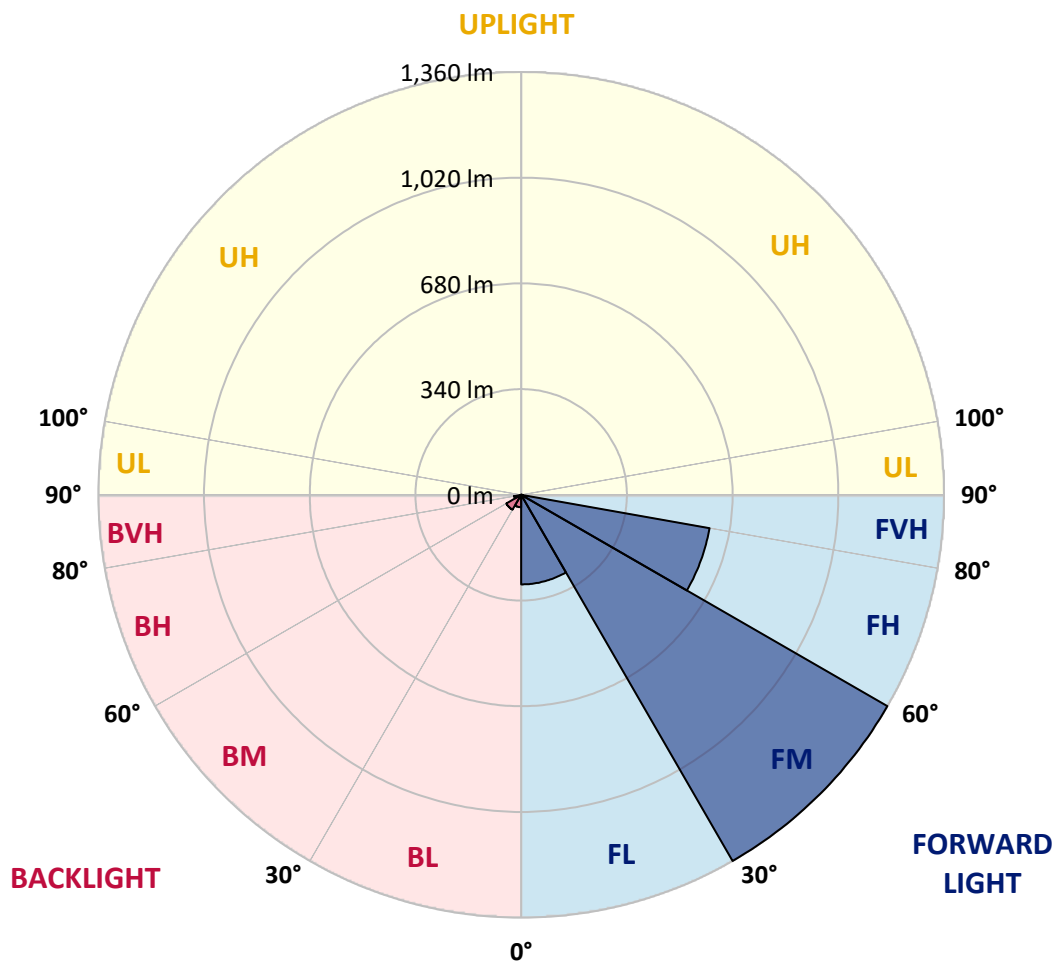
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.1	12.1			
FM	(30°-60°)	1359.8	57.0			
FH	(60°-80°)	615.2	25.8			G0/660
FVH	(80°-90°)	5.3	0.2			G0/10
BL	(0°-30°)	40.0	1.7	B0/110		
BM	(30°-60°)	55.5	2.3	B0/220		
BH	(60°-80°)	22.9	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°	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5
2.5°	302.3	295.5	297.0	292.6	284.7	268.4	254.5	241.3	225.9	225.4	212.7
5°	407.6	401.8	401.1	392.2	377.8	350.1	323.1	292.3	258.0	255.5	228.6
7.5°	503.2	498.6	496.9	486.3	459.5	432.5	397.3	352.2	298.5	293.9	250.1
10°	576.6	574.4	574.8	567.3	544.3	519.2	473.1	415.4	344.4	337.3	275.8
12.5°	632.2	632.8	636.5	631.9	619.1	600.5	551.2	482.9	395.2	385.5	305.2
15°	673.1	675.8	682.7	688.4	687.5	671.4	626.2	551.4	449.2	438.4	337.9
17.5°	699.6	702.5	712.6	725.3	737.0	733.3	698.6	617.5	503.8	491.4	373.0
20°	722.8	726.3	737.0	753.9	775.7	780.5	757.7	681.6	558.3	543.1	409.2
22.5°	773.1	773.0	779.6	789.4	810.3	822.4	808.0	741.1	612.2	596.4	446.1
25°	864.1	860.7	858.4	850.6	855.2	862.8	854.7	796.8	666.3	650.3	483.5
27.5°	972.3	974.4	955.7	934.9	918.8	911.1	897.9	848.3	718.4	700.9	520.1
30°	1086.4	1087.0	1065.0	1038.5	1003.0	973.6	950.8	897.6	772.0	752.8	555.7
32.5°	1189.3	1185.2	1163.5	1127.3	1082.5	1049.5	1002.1	952.6	828.7	810.2	595.2
35°	1270.9	1266.1	1239.6	1206.7	1160.2	1127.0	1070.0	1007.5	888.3	870.2	634.9
37.5°	1330.5	1324.8	1297.7	1263.8	1223.7	1204.4	1148.7	1067.2	953.3	933.9	676.6
40°	1351.2	1346.3	1329.2	1304.4	1272.2	1267.8	1232.3	1136.0	1024.1	1003.4	723.9
42.5°	1338.9	1334.0	1328.0	1319.6	1306.2	1310.4	1311.1	1214.3	1102.8	1082.4	776.1
45°	1289.9	1285.6	1291.9	1304.1	1320.8	1341.5	1383.1	1298.5	1190.7	1168.9	836.4
47.5°	1217.8	1214.7	1232.1	1262.6	1311.2	1368.4	1448.9	1387.0	1289.3	1269.1	911.7
50°	1115.4	1114.8	1149.6	1205.3	1280.1	1381.3	1516.9	1487.6	1426.3	1405.1	1016.4
52.5°	955.7	956.8	1025.1	1114.3	1225.4	1372.5	1560.6	1616.9	1585.7	1563.6	1107.1
55°	803.8	810.1	858.5	987.1	1141.5	1339.9	1575.7	1677.2	1673.7	1652.7	1157.5
57.5°	654.9	666.3	713.0	833.2	1019.0	1264.7	1567.4	1703.4	1739.1	1723.1	1224.0
60°	493.7	498.9	552.7	665.0	861.8	1127.5	1507.5	1717.6	1828.7	1817.6	1320.6
62.5°	314.1	327.2	374.9	483.2	671.1	936.9	1406.4	1717.4	1940.7	1946.7	1445.1
65°	165.5	180.7	206.0	299.4	461.1	724.1	1254.5	1701.3	2078.1	2086.6	1542.5
67.5°	89.2	93.6	107.0	155.4	267.4	490.5	1031.2	1621.8	2157.7	2168.9	1556.1
70°	65.3	67.7	72.7	86.0	134.6	284.9	752.4	1441.6	2055.1	2050.9	1382.6
72.5°	50.1	53.9	57.6	63.0	77.4	152.1	468.5	1128.8	1639.8	1612.2	1033.5
75°	39.5	40.2	45.5	50.3	58.0	86.6	208.0	657.5	1000.8	935.5	535.9
77.5°	31.6	32.0	35.1	39.3	46.6	56.9	64.4	258.7	319.5	285.1	116.3
80°	18.7	19.8	26.1	30.3	38.7	35.9	23.5	56.2	49.9	45.2	19.6
82.5°	10.5	11.3	14.7	24.0	27.0	17.2	11.7	15.2	11.7	11.4	5.5
85°	0.0	0.5	9.5	14.9	11.0	3.8	4.9	5.0	3.5	3.2	2.2
87.5°	0.0	0.0	2.9	2.8	0.4	0.6	1.2	1.7	1.4	1.4	1.2
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°	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5
2.5°	206.5	200.8	190.1	179.7	170.9	163.7	157.2	154.6	152.5	152.2	150.5
5°	215.7	204.3	183.9	167.1	155.9	148.0	141.2	137.0	133.8	132.5	131.4
7.5°	229.6	212.3	183.0	163.8	150.4	137.0	124.5	110.9	102.4	99.2	97.3
10°	246.5	223.0	186.2	162.8	139.4	111.2	90.4	73.1	66.1	63.8	63.2
12.5°	266.3	236.3	191.6	157.0	116.0	79.0	62.3	56.5	54.9	54.2	54.2
15°	289.0	250.8	195.5	140.0	85.8	59.7	54.0	51.2	49.6	48.6	48.7
17.5°	312.2	265.0	193.6	115.5	63.3	53.1	48.8	45.9	43.6	42.7	42.5
20°	335.6	278.2	183.1	86.0	53.6	48.2	43.4	40.2	37.9	36.9	36.7
22.5°	359.9	289.4	164.7	63.1	48.1	42.8	38.1	34.8	32.6	31.8	31.4
25°	383.5	298.5	139.0	51.0	43.0	37.7	33.2	30.1	28.1	27.3	27.2
27.5°	405.6	304.3	109.2	45.1	38.5	33.1	29.0	26.3	24.6	24.0	23.8
30°	425.5	304.8	80.7	40.7	34.5	29.1	25.3	22.9	21.4	20.8	20.6
32.5°	445.6	300.4	58.8	36.7	30.9	25.6	22.0	20.1	19.0	18.5	18.5
35°	464.5	290.2	45.8	33.3	27.3	22.3	19.3	18.0	17.4	16.8	16.8
37.5°	483.0	275.7	38.9	30.2	24.0	19.5	17.0	16.2	15.7	15.2	15.2
40°	501.8	257.4	35.4	27.4	21.2	17.3	15.2	14.4	13.9	13.5	13.4
42.5°	524.9	236.3	33.1	24.8	18.8	15.3	13.4	12.6	12.1	11.7	11.5
45°	551.7	218.1	31.2	22.2	16.8	13.6	11.6	10.8	10.1	9.6	9.5
47.5°	590.3	204.9	28.7	19.3	15.0	11.8	10.0	9.1	8.2	7.6	7.5
50°	639.6	194.0	25.4	16.8	13.1	10.0	8.4	7.2	6.4	5.9	5.9
52.5°	664.0	179.8	22.5	14.6	11.0	8.5	6.8	5.4	5.0	4.5	4.5
55°	673.9	168.9	19.6	12.4	9.1	7.0	5.3	4.2	3.9	3.6	3.5
57.5°	701.5	165.8	17.0	10.6	7.5	5.5	4.1	3.1	2.9	2.5	2.5
60°	745.9	167.3	14.7	9.0	6.1	4.3	3.0	2.4	2.2	1.8	1.8
62.5°	793.9	165.4	12.4	7.7	4.7	3.1	2.1	1.8	1.8	1.0	0.9
65°	803.1	147.3	10.7	6.4	3.7	2.3	1.4	1.2	1.6	0.2	0.0
67.5°	745.4	114.2	9.2	4.9	2.7	1.8	1.0	0.5	1.4	0.0	0.0
70°	596.1	72.6	7.4	3.6	2.1	1.5	0.8	0.2	1.0	0.0	0.0
72.5°	421.5	42.1	5.9	2.5	1.8	1.2	0.6	0.0	0.6	0.0	0.0
75°	213.2	22.5	3.7	1.9	1.4	0.8	0.4	0.0	0.1	0.0	0.0
77.5°	46.1	10.5	2.3	1.4	0.9	0.5	0.2	0.0	0.0	0.0	0.0
80°	10.0	4.6	1.5	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	2.4	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	1.3	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)