

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: P348547

Luminaire Tested: **ARCH-N-PA1-10-750-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-10-750-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 270mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2267 lumens  
Efficiency: N/A  
Efficacy: 161.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1

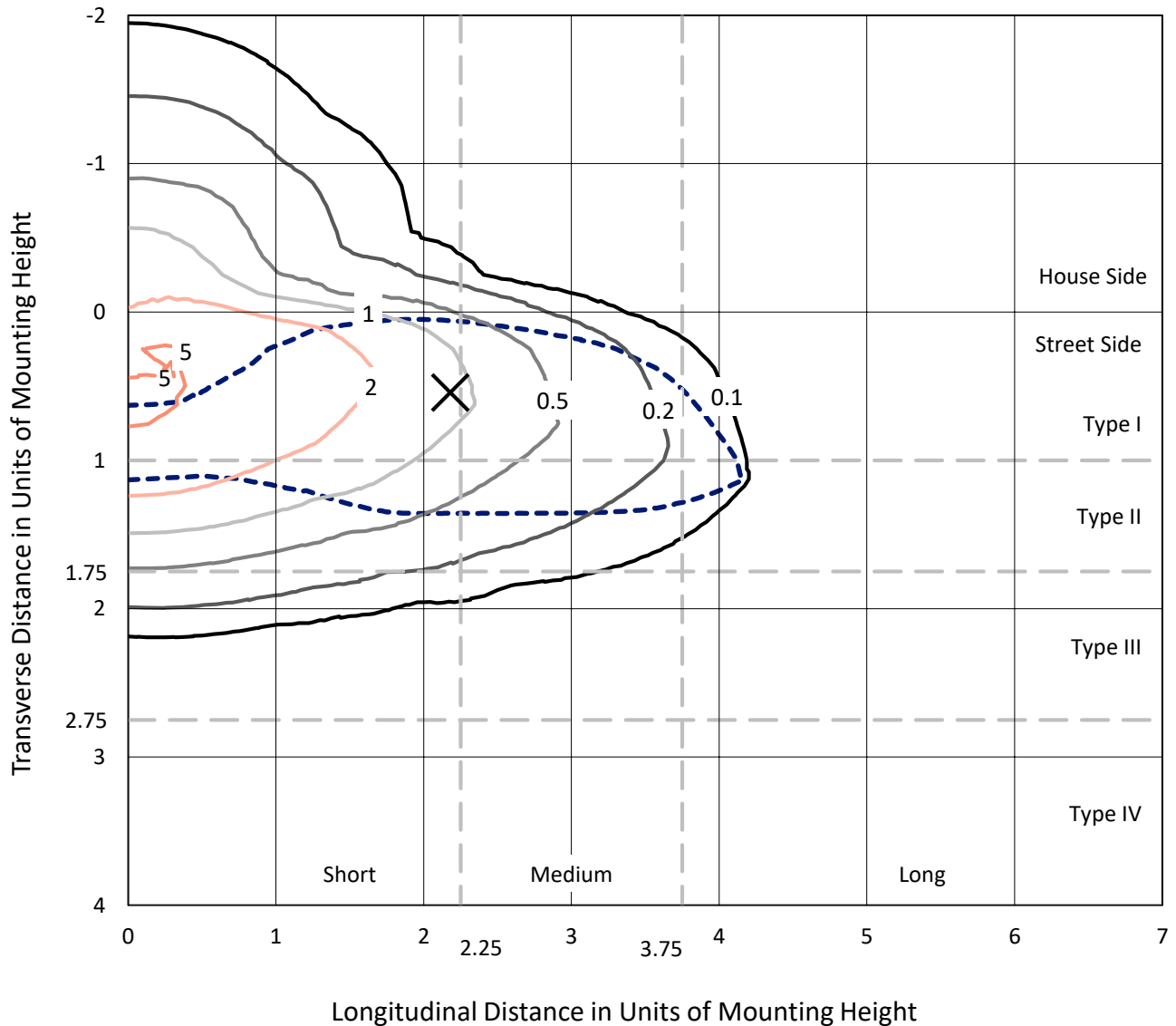
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

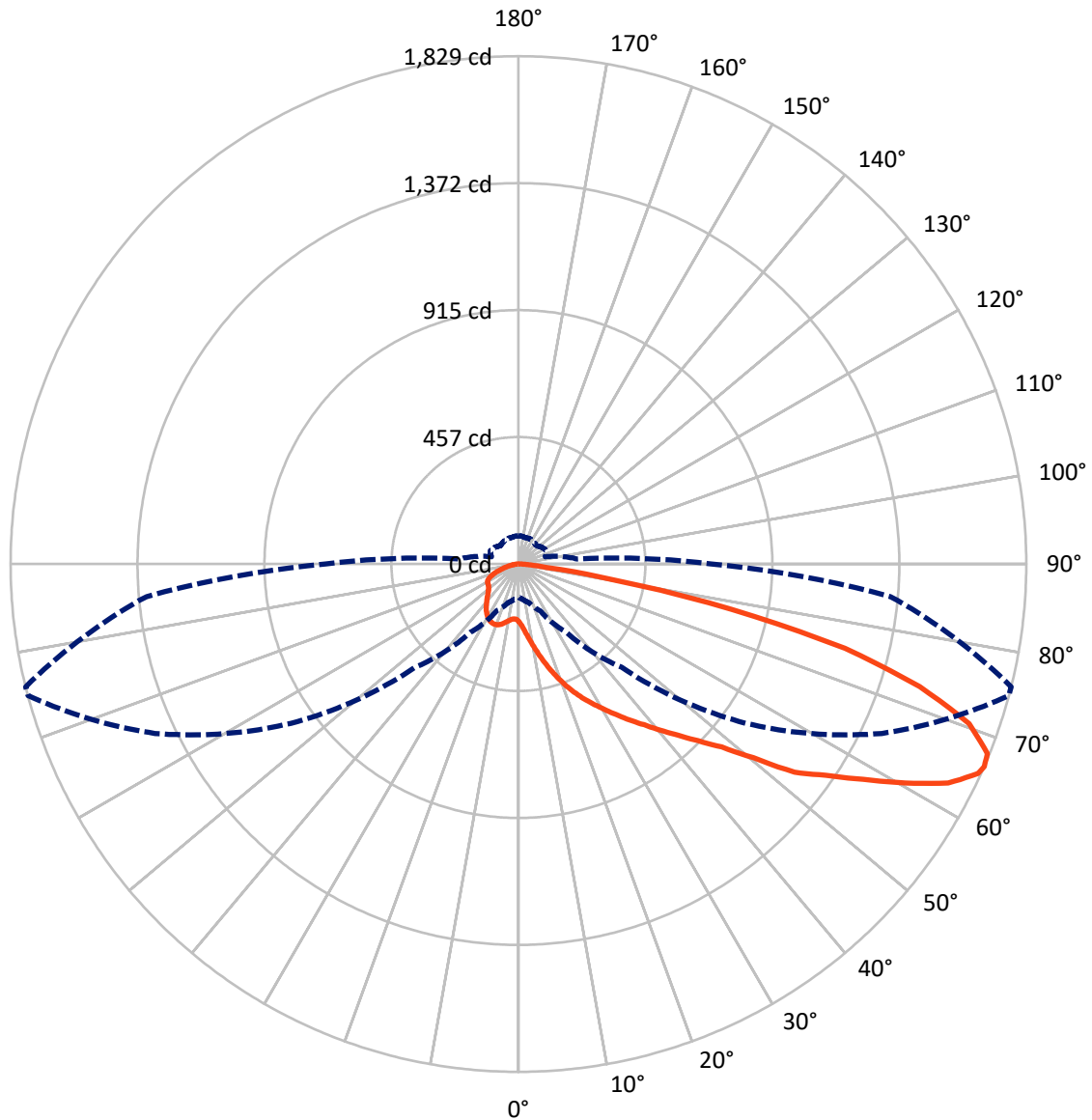
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical



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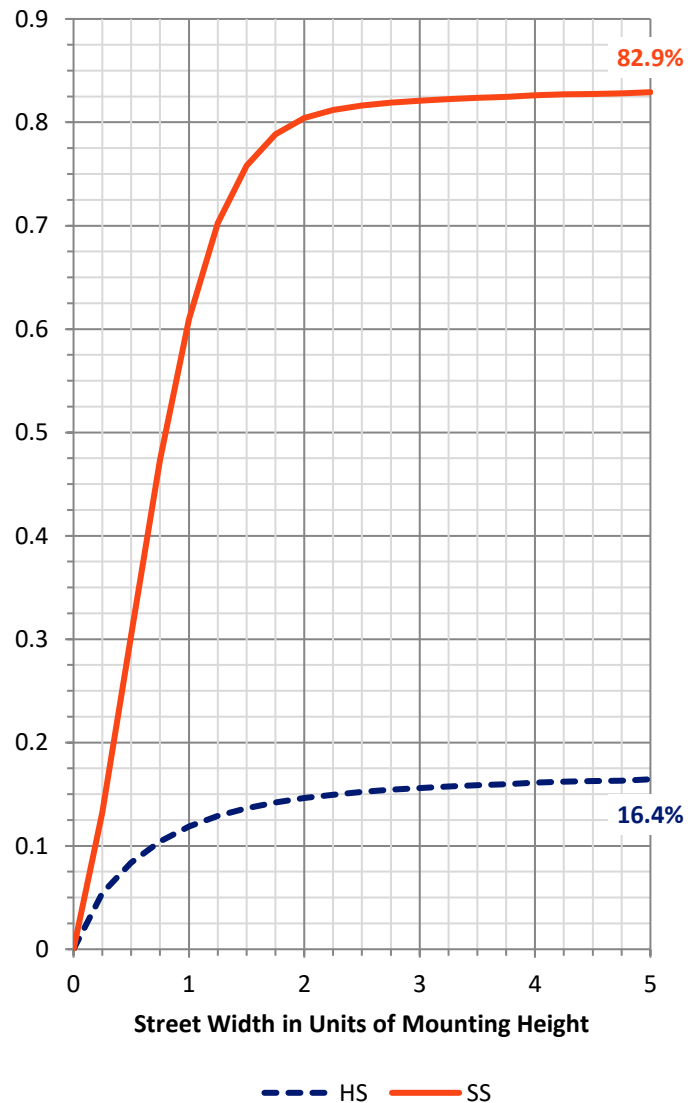
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	381.5	0.0	381.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	1885.5	0.0	1885.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	2267.0	0.0	2267.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.0	1.1
10°-20°	98.9	4.4
20°-30°	192.1	8.5
30°-40°	313.6	13.8
40°-50°	428.4	18.9
50°-60°	499.0	22.0
60°-70°	447.4	19.7
70°-80°	226.1	10.0
80°-90°	36.5	1.6
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°	2267.0	100.0
0°-180°	2267.0	100.0

**Coefficient of Utilization**



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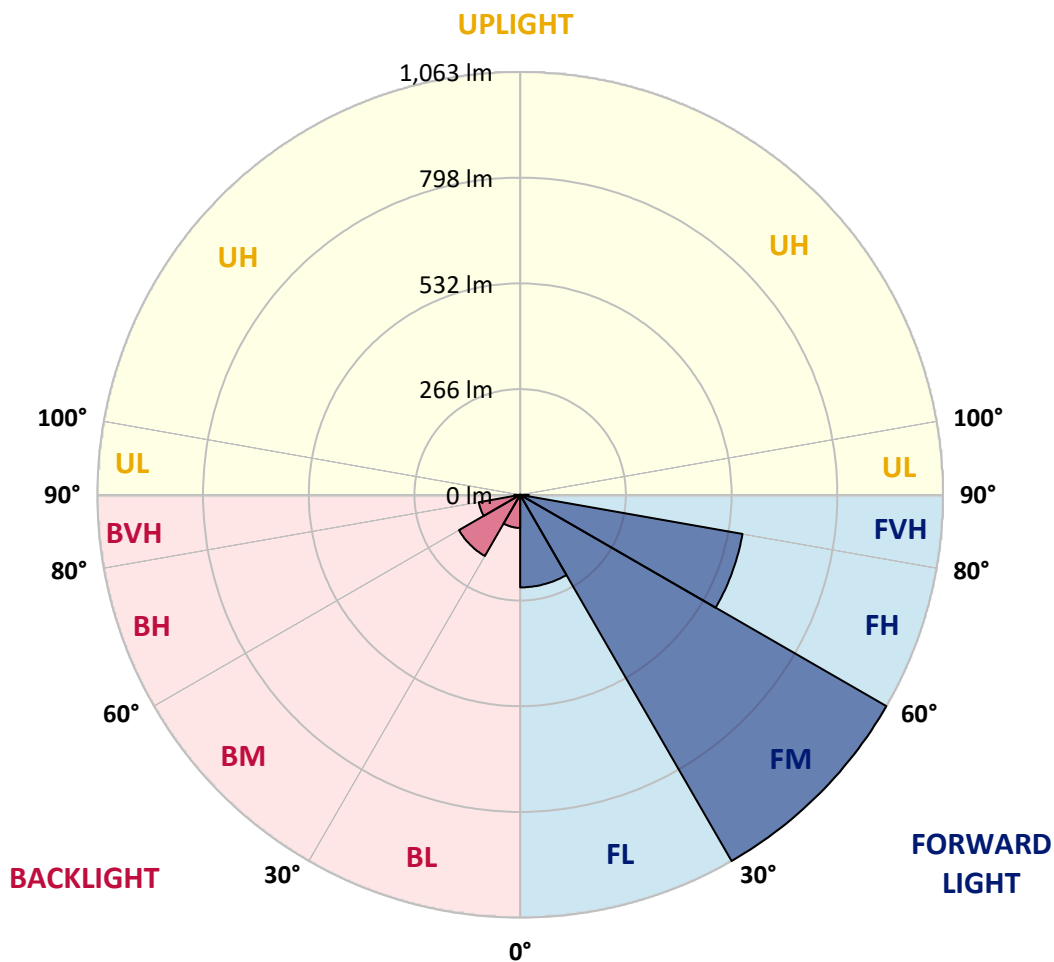
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.8	10.3			
FM (30°-60°)	1063.4	46.9			
FH (60°-80°)	567.8	25.0			G0/660
FVH (80°-90°)	21.6	1.0			G1/100
BL (0°-30°)	83.2	3.7	B0/110		
BM (30°-60°)	177.6	7.8	B0/220		
BH (60°-80°)	105.7	4.7	B0/110		G0/110
BVH (80°-90°)	15.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0
2.5°	274.8	270.7	270.3	264.2	262.8	251.2	242.7	233.7	223.6	221.6	213.6
5°	353.0	352.6	347.3	337.4	329.6	309.8	290.1	269.4	246.6	242.9	224.9
7.5°	423.4	422.8	418.7	408.0	396.7	372.3	344.3	312.5	275.5	270.1	240.2
10°	476.8	476.5	475.2	467.3	457.8	434.4	403.4	360.0	309.2	301.7	259.4
12.5°	518.0	518.5	519.4	516.6	512.1	492.2	460.5	410.3	345.0	337.6	280.7
15°	546.0	547.4	552.1	556.1	558.4	546.2	515.5	461.8	385.2	376.3	304.3
17.5°	560.1	561.6	569.8	581.7	592.6	591.4	567.0	510.9	423.8	415.2	329.7
20°	572.2	573.4	582.6	596.8	616.2	624.7	611.0	558.1	466.0	455.8	356.6
22.5°	607.5	608.9	611.7	619.8	636.9	652.6	645.9	602.8	504.7	495.3	382.2
25°	675.5	677.3	671.3	664.4	667.6	678.6	679.8	643.6	544.0	533.3	409.7
27.5°	757.5	760.0	749.8	732.1	716.7	712.5	711.1	677.0	581.4	569.1	436.8
30°	837.7	842.1	828.8	805.9	777.7	757.8	743.1	709.7	618.4	606.5	462.5
32.5°	916.2	914.4	895.1	872.8	839.7	814.8	779.2	744.8	660.0	646.3	487.9
35°	969.9	970.5	952.6	926.1	894.5	875.4	827.6	782.7	702.4	689.8	516.9
37.5°	1015.6	1012.7	992.4	967.7	940.6	932.4	884.1	824.4	748.3	734.6	547.7
40°	1030.8	1027.5	1014.2	996.4	974.6	974.0	946.6	871.7	800.3	786.7	582.4
42.5°	1021.6	1017.4	1011.9	1007.0	1000.4	1003.4	1005.2	927.1	857.4	842.2	622.5
45°	987.5	981.1	985.0	995.5	1010.1	1027.4	1058.2	988.4	921.3	908.6	669.7
47.5°	935.1	929.3	941.3	963.9	1003.4	1047.5	1108.3	1056.2	997.7	985.0	736.9
50°	861.4	863.1	880.2	921.2	981.0	1056.7	1170.0	1145.8	1108.6	1096.9	828.6
52.5°	740.4	740.7	789.0	856.4	941.3	1051.9	1204.2	1260.4	1260.2	1245.9	915.8
55°	628.0	634.9	673.1	762.6	877.0	1032.8	1228.2	1316.1	1359.7	1343.0	997.2
57.5°	518.3	522.3	558.5	648.4	785.2	982.0	1252.7	1383.0	1474.4	1463.8	1098.3
60°	393.4	399.6	437.1	520.1	667.7	891.7	1255.0	1452.8	1611.4	1600.8	1211.2
62.5°	255.4	266.0	301.1	378.9	525.7	761.8	1201.5	1498.5	1741.3	1737.6	1311.4
65°	146.8	154.8	179.2	239.2	362.6	598.8	1074.1	1480.9	1821.3	1819.2	1348.9
66°	119.9	124.9	143.6	186.9	299.2	525.9	1000.0	1443.9	1829.2	1829.3	1344.6
67.5°	95.9	98.1	106.5	133.8	220.8	416.8	867.7	1362.2	1819.4	1822.1	1316.8
70°	79.3	80.5	83.1	89.7	120.5	251.4	615.9	1150.0	1720.5	1722.6	1208.4
72.5°	71.2	71.9	72.9	73.8	85.0	140.5	376.2	920.0	1508.5	1511.2	1043.1
75°	64.5	64.9	64.7	64.8	71.3	89.5	194.4	686.9	1219.7	1214.3	799.1
77.5°	56.6	57.0	56.3	56.4	63.1	68.8	96.7	480.9	823.1	785.1	450.2
80°	47.9	48.2	47.9	48.4	55.0	51.9	56.3	270.5	364.0	344.3	160.1
82.5°	36.2	37.5	38.4	40.6	45.3	36.9	37.6	105.4	110.8	105.5	49.1
85°	15.9	19.3	28.9	31.0	34.0	22.2	24.7	42.9	45.1	43.7	17.9
87.5°	4.2	4.5	14.3	18.0	18.9	10.0	12.9	19.5	20.6	19.5	5.9
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°	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0
2.5°	209.3	205.6	198.8	192.8	188.2	185.2	182.1	180.6	179.6	178.7	178.9
5°	216.0	208.4	196.8	188.6	183.9	181.0	179.5	178.9	178.5	177.6	177.6
7.5°	226.1	215.3	199.3	190.9	187.2	185.0	184.1	183.8	183.3	182.2	182.4
10°	238.8	223.7	204.6	196.4	193.1	190.6	189.3	188.9	188.0	186.8	186.9
12.5°	253.7	234.1	211.6	203.0	199.0	195.7	193.6	192.3	190.8	189.2	189.2
15°	270.1	245.4	219.2	209.0	203.5	198.9	195.4	193.2	190.9	188.9	188.8
17.5°	286.6	256.4	225.0	212.2	204.8	198.7	194.0	190.6	187.7	185.2	185.0
20°	304.5	266.2	228.2	211.9	202.3	195.1	188.9	184.6	181.4	178.9	178.6
22.5°	322.6	275.4	228.7	208.7	196.9	188.0	181.5	176.7	173.5	170.9	170.0
25°	339.2	282.6	226.5	202.6	189.2	179.7	173.3	168.5	165.9	162.9	161.9
27.5°	354.4	287.6	222.0	194.9	180.7	171.3	165.3	161.2	158.3	156.0	155.2
30°	368.0	290.3	214.7	185.6	171.9	163.4	158.3	155.5	153.0	150.1	149.5
32.5°	381.0	290.3	205.3	175.6	163.2	156.4	153.4	151.6	148.8	146.0	145.2
35°	393.9	288.5	194.3	165.0	155.2	151.4	151.2	149.2	144.9	141.1	140.1
37.5°	407.5	284.9	181.8	155.2	148.7	149.2	150.5	145.8	139.8	134.4	132.9
40°	422.9	279.9	168.9	146.6	143.2	148.2	148.4	141.1	129.4	124.4	123.1
42.5°	441.0	274.9	156.8	139.1	138.9	145.2	144.5	130.8	123.8	121.2	120.5
45°	464.8	272.1	145.5	131.9	135.5	140.3	137.8	125.1	122.1	120.7	120.1
47.5°	502.3	273.5	135.0	126.2	132.1	135.5	125.3	122.8	120.7	118.9	118.3
50°	549.2	272.7	126.5	122.3	128.3	130.4	119.7	119.8	118.7	116.7	115.8
52.5°	584.5	266.1	121.1	120.1	124.9	121.4	116.1	116.8	116.3	113.4	112.4
55°	618.6	260.4	118.3	119.2	122.4	110.1	112.0	113.7	113.1	110.3	109.8
57.5°	661.0	259.3	116.6	119.4	120.4	104.5	108.0	110.2	109.8	108.6	108.4
60°	713.0	259.6	115.1	119.8	118.1	100.4	104.2	107.1	107.3	107.1	106.9
62.5°	741.5	251.2	111.2	118.8	114.0	96.7	100.3	104.4	104.5	105.0	104.9
65°	717.3	226.1	104.1	115.0	107.1	93.7	96.9	101.4	100.3	102.4	102.4
66°	693.7	211.6	100.5	112.5	104.2	92.6	95.8	99.9	98.4	101.3	101.3
67.5°	645.6	187.2	94.1	107.3	100.1	91.0	94.6	97.4	95.4	99.6	99.3
70°	557.7	144.8	81.3	95.4	93.2	88.6	92.9	92.3	89.4	95.8	94.6
72.5°	470.2	110.1	65.3	79.9	82.8	85.6	90.5	85.8	82.1	86.7	84.0
75°	364.9	82.7	51.6	62.1	70.0	80.9	87.7	78.3	73.0	72.6	71.1
77.5°	197.3	56.8	40.9	47.4	55.6	75.0	85.7	70.3	62.3	60.5	59.3
80°	78.1	36.9	29.7	35.9	38.9	66.6	81.1	61.0	51.4	49.6	47.8
82.5°	32.2	21.9	19.2	24.1	25.3	57.0	72.8	50.0	39.7	55.0	58.3
85°	13.9	12.0	11.4	12.5	14.3	39.9	58.0	38.2	42.9	38.3	30.4
87.5°	4.2	5.1	4.8	4.8	5.2	9.5	30.9	21.2	31.5	11.9	8.9
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)