

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: P348526

Luminaire Tested: **ARCH-N-PA1-10-727-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348526  
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-PA1-10-727-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1896 lumens  
Efficiency: N/A  
Efficacy: 135.4 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

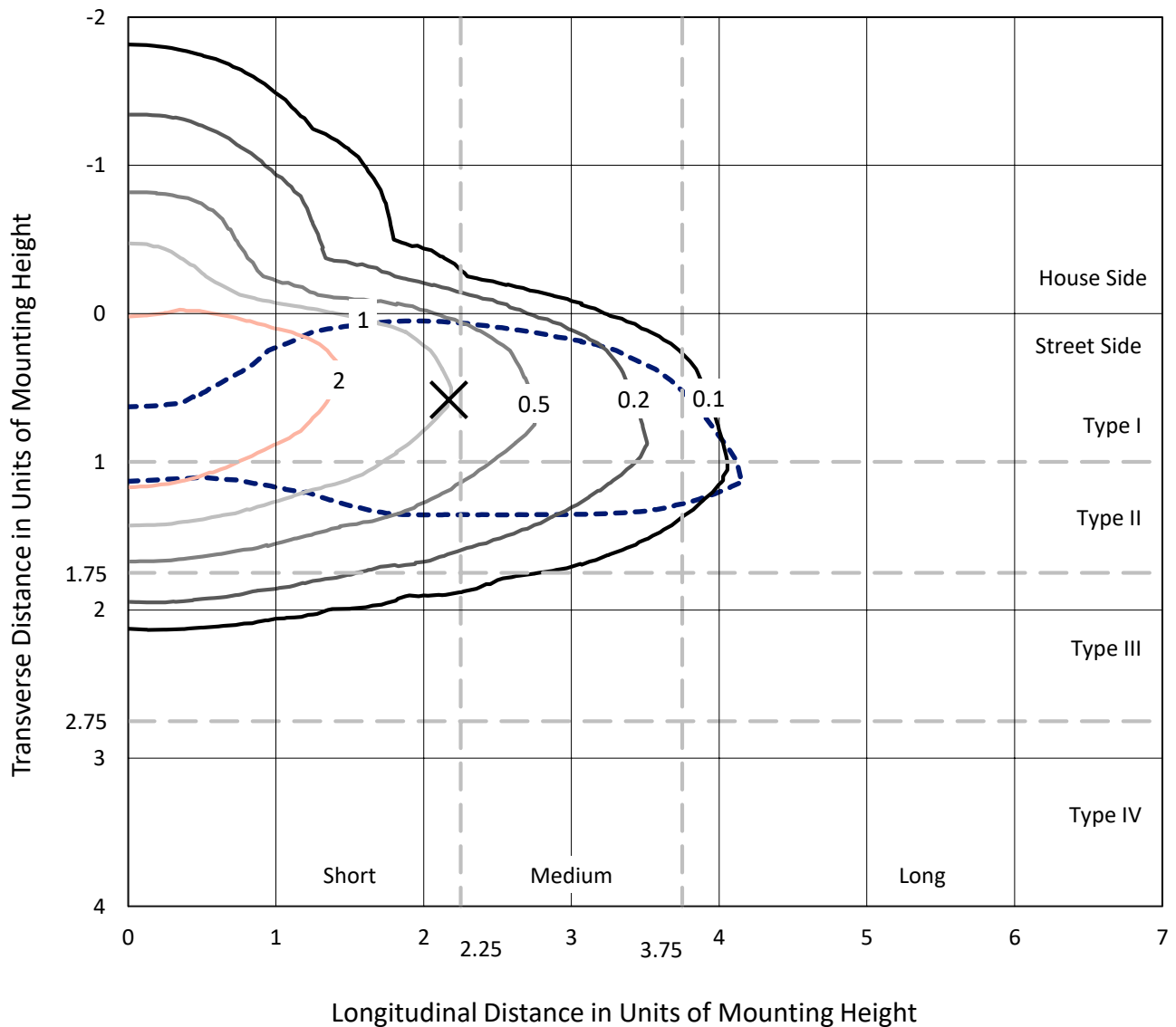
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

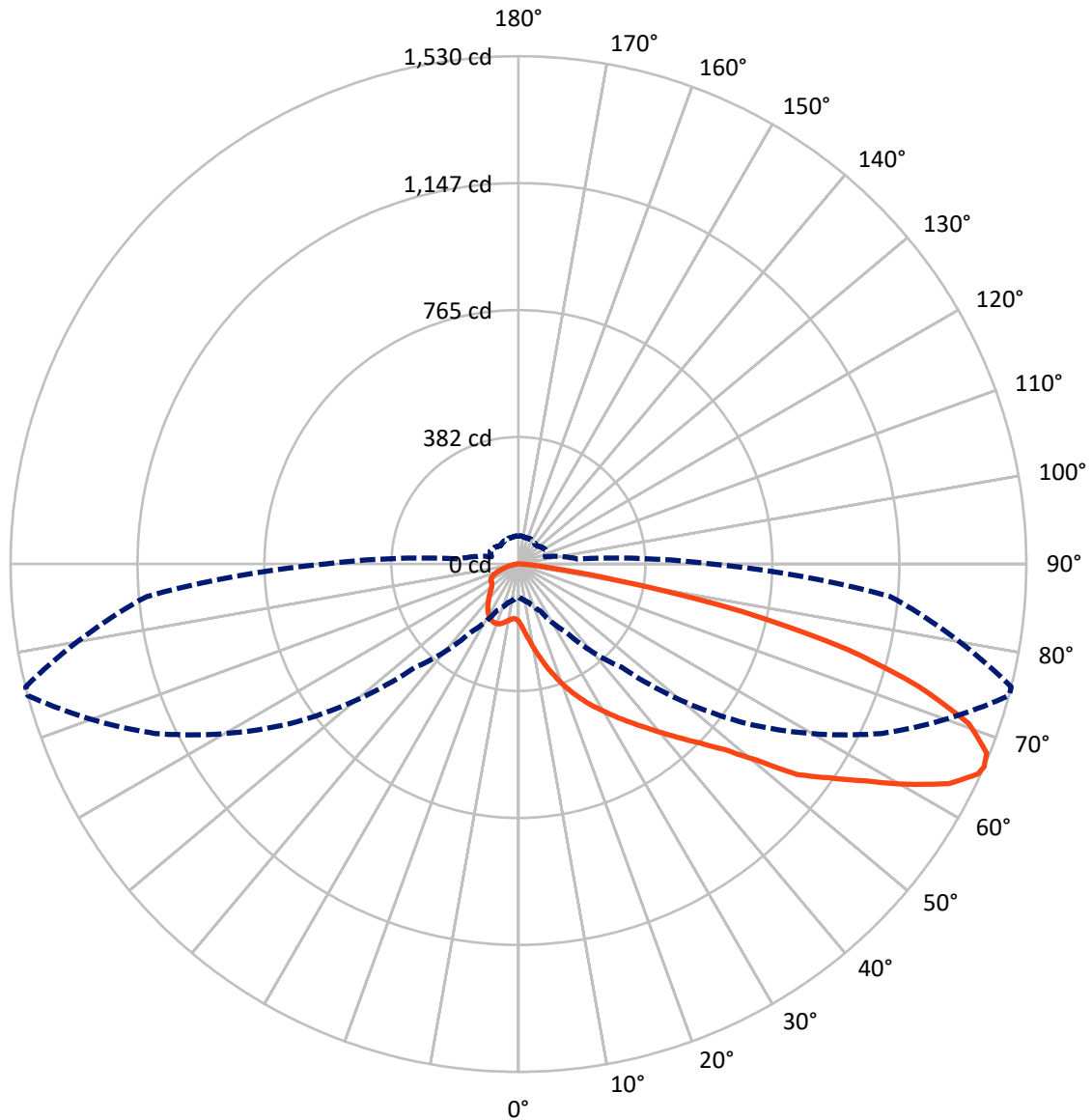
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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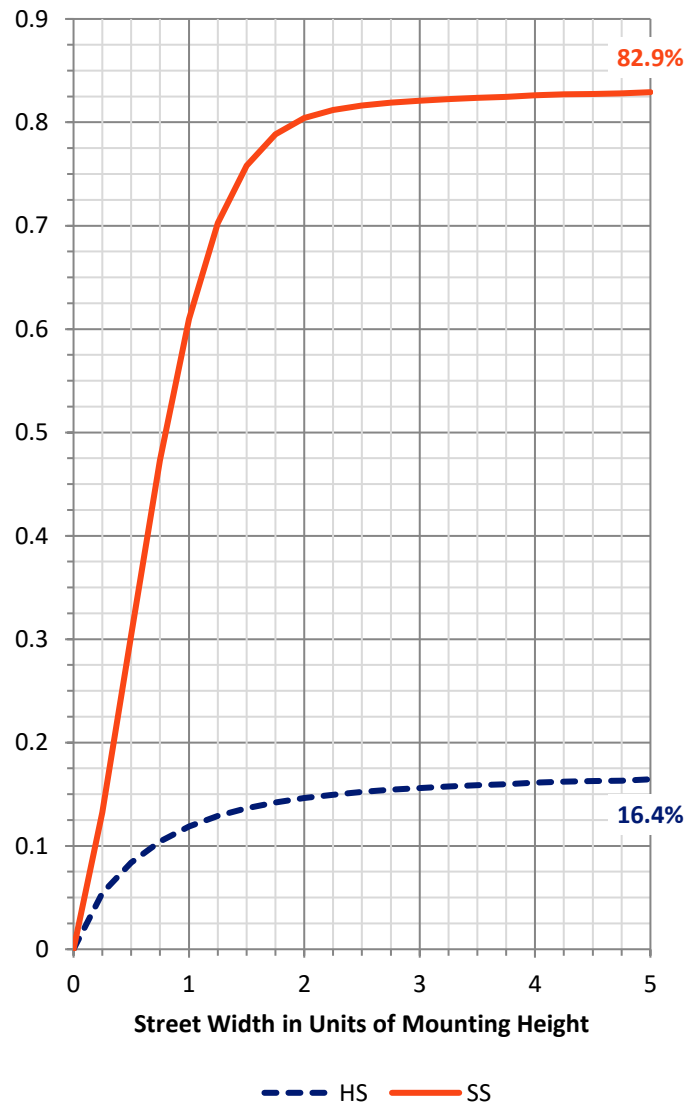
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	319.0	0.0	319.0
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	1577.0	0.0	1577.0
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	1896.0	0.0	1896.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.9	1.1
10°-20°	82.7	4.4
20°-30°	160.7	8.5
30°-40°	262.3	13.8
40°-50°	358.3	18.9
50°-60°	417.4	22.0
60°-70°	374.2	19.7
70°-80°	189.1	10.0
80°-90°	30.5	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°	1896.0	100.0
0°-180°	1896.0	100.0



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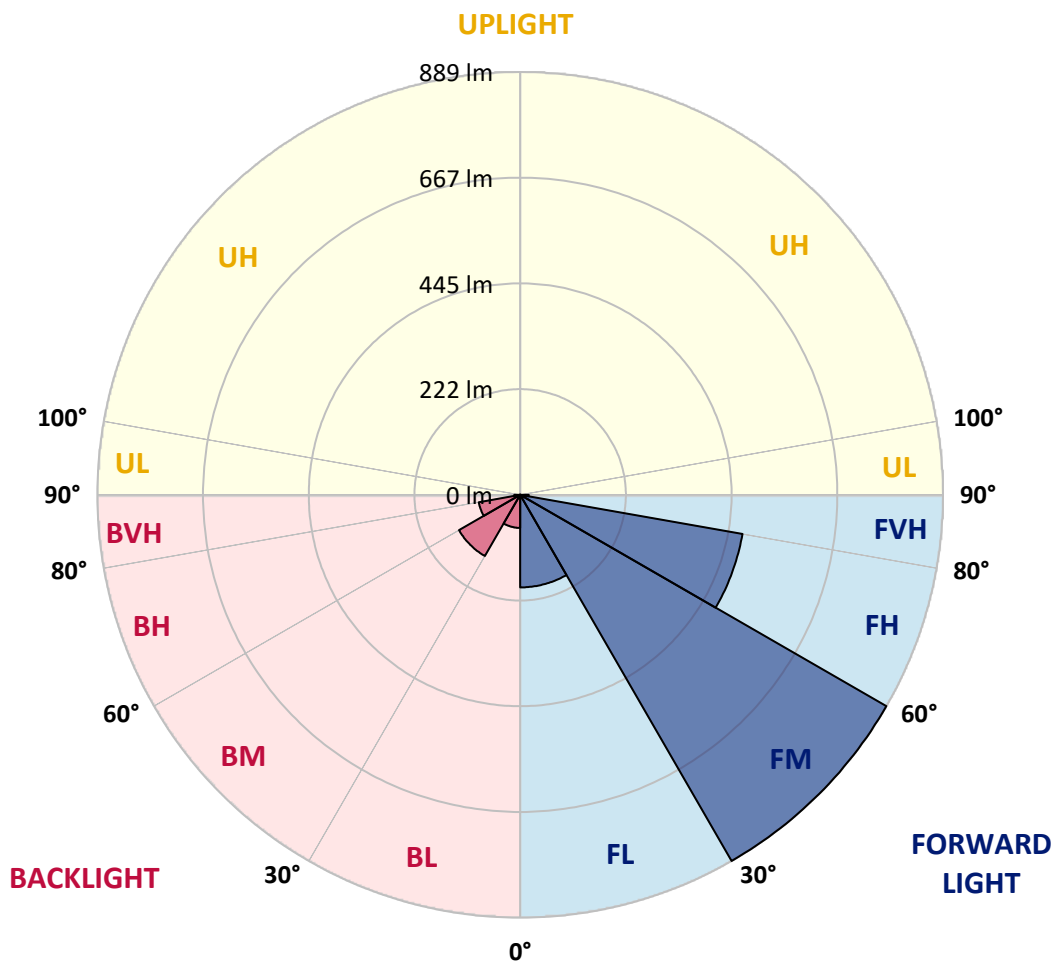
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.7	10.3			
FM (30°-60°)	889.4	46.9			
FH (60°-80°)	474.9	25.0			G0/660
FVH (80°-90°)	18.0	1.0			G1/100
BL (0°-30°)	69.6	3.7	B0/110		
BM (30°-60°)	148.6	7.8	B0/220		
BH (60°-80°)	88.4	4.7	B0/110		G0/110
BVH (80°-90°)	12.5	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°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1
2.5°	229.9	226.4	226.1	221.0	219.8	210.1	202.9	195.5	187.0	185.3	178.6
5°	295.3	294.9	290.5	282.2	275.7	259.1	242.7	225.3	206.2	203.1	188.1
7.5°	354.1	353.6	350.2	341.2	331.8	311.4	288.0	261.3	230.4	225.9	200.9
10°	398.8	398.6	397.4	390.8	382.9	363.3	337.4	301.0	258.6	252.3	216.9
12.5°	433.3	433.6	434.4	432.1	428.3	411.6	385.1	343.1	288.6	282.4	234.7
15°	456.6	457.8	461.8	465.1	467.0	456.8	431.1	386.2	322.2	314.8	254.5
17.5°	468.4	469.7	476.6	486.5	495.6	494.6	474.2	427.3	354.4	347.3	275.7
20°	478.6	479.5	487.3	499.2	515.3	522.5	511.0	466.8	389.7	381.2	298.3
22.5°	508.0	509.3	511.6	518.3	532.6	545.8	540.2	504.2	422.1	414.2	319.6
25°	565.0	566.4	561.4	555.7	558.4	567.5	568.6	538.3	454.9	446.0	342.6
27.5°	633.5	635.6	627.1	612.3	599.5	595.9	594.7	566.2	486.3	475.9	365.3
30°	700.6	704.3	693.2	674.1	650.4	633.8	621.5	593.6	517.2	507.3	386.8
32.5°	766.2	764.7	748.6	729.9	702.2	681.5	651.7	622.9	551.9	540.6	408.1
35°	811.2	811.7	796.7	774.5	748.1	732.2	692.1	654.6	587.4	576.9	432.3
37.5°	849.4	847.0	830.0	809.4	786.6	779.8	739.4	689.5	625.8	614.4	458.0
40°	862.1	859.4	848.2	833.4	815.1	814.6	791.7	729.0	669.3	658.0	487.1
42.5°	854.4	850.9	846.3	842.2	836.6	839.2	840.7	775.4	717.0	704.4	520.7
45°	825.9	820.6	823.8	832.6	844.8	859.3	885.0	826.7	770.5	759.9	560.1
47.5°	782.1	777.2	787.3	806.1	839.2	876.0	926.9	883.3	834.4	823.8	616.3
50°	720.4	721.8	736.2	770.5	820.5	883.8	978.5	958.3	927.2	917.4	693.0
52.5°	619.2	619.5	659.9	716.2	787.3	879.8	1007.2	1054.1	1053.9	1042.0	766.0
55°	525.2	531.0	563.0	637.8	733.5	863.8	1027.2	1100.7	1137.2	1123.2	834.0
57.5°	433.4	436.8	467.1	542.3	656.7	821.3	1047.7	1156.7	1233.1	1224.3	918.6
60°	329.0	334.2	365.5	435.0	558.4	745.8	1049.6	1215.1	1347.7	1338.8	1013.0
62.5°	213.6	222.5	251.8	316.9	439.6	637.2	1004.8	1253.2	1456.4	1453.2	1096.8
65°	122.7	129.4	149.8	200.1	303.3	500.8	898.3	1238.6	1523.2	1521.4	1128.2
66°	100.3	104.5	120.1	156.3	250.3	439.8	836.4	1207.6	1529.9	1529.9	1124.6
67.5°	80.2	82.1	89.1	111.9	184.7	348.6	725.7	1139.3	1521.6	1523.9	1101.3
70°	66.4	67.3	69.5	75.1	100.8	210.2	515.1	961.8	1438.9	1440.7	1010.6
72.5°	59.5	60.1	61.0	61.7	71.1	117.5	314.6	769.4	1261.6	1263.8	872.4
75°	53.9	54.3	54.1	54.2	59.7	74.9	162.6	574.5	1020.1	1015.6	668.3
77.5°	47.4	47.7	47.1	47.2	52.8	57.5	80.9	402.2	688.4	656.6	376.5
80°	40.0	40.3	40.0	40.5	46.0	43.4	47.1	226.3	304.4	287.9	133.9
82.5°	30.3	31.3	32.1	33.9	37.8	30.9	31.5	88.1	92.7	88.2	41.1
85°	13.3	16.2	24.2	25.9	28.5	18.5	20.7	35.9	37.7	36.6	14.9
87.5°	3.5	3.8	12.0	15.1	15.8	8.4	10.7	16.3	17.3	16.3	5.0
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°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1
2.5°	175.1	171.9	166.3	161.2	157.4	154.9	152.3	151.0	150.2	149.5	149.6
5°	180.7	174.3	164.6	157.7	153.8	151.4	150.1	149.6	149.3	148.5	148.5
7.5°	189.1	180.1	166.7	159.6	156.6	154.7	154.0	153.7	153.3	152.4	152.6
10°	199.7	187.1	171.2	164.3	161.5	159.4	158.3	158.0	157.2	156.2	156.3
12.5°	212.2	195.8	177.0	169.8	166.5	163.7	161.9	160.8	159.6	158.2	158.3
15°	225.9	205.3	183.3	174.8	170.2	166.3	163.4	161.6	159.6	158.0	157.9
17.5°	239.7	214.4	188.1	177.5	171.3	166.2	162.3	159.4	157.0	154.9	154.7
20°	254.6	222.6	190.8	177.2	169.2	163.2	158.0	154.4	151.7	149.7	149.3
22.5°	269.8	230.4	191.3	174.6	164.7	157.2	151.8	147.8	145.1	143.0	142.2
25°	283.7	236.4	189.4	169.5	158.3	150.3	145.0	140.9	138.7	136.2	135.4
27.5°	296.4	240.5	185.7	163.0	151.1	143.3	138.3	134.8	132.4	130.5	129.8
30°	307.8	242.8	179.6	155.3	143.8	136.7	132.4	130.0	128.0	125.5	125.1
32.5°	318.6	242.8	171.7	146.8	136.5	130.8	128.3	126.8	124.5	122.1	121.5
35°	329.4	241.3	162.5	138.0	129.8	126.6	126.5	124.7	121.2	118.0	117.1
37.5°	340.8	238.3	152.0	129.8	124.4	124.7	125.8	122.0	117.0	112.4	111.2
40°	353.7	234.1	141.2	122.6	119.8	123.9	124.1	118.0	108.2	104.0	102.9
42.5°	368.8	229.9	131.2	116.3	116.2	121.4	120.8	109.4	103.5	101.4	100.8
45°	388.7	227.5	121.7	110.3	113.4	117.3	115.2	104.6	102.2	100.9	100.4
47.5°	420.1	228.8	112.9	105.6	110.5	113.3	104.8	102.7	100.9	99.4	98.9
50°	459.3	228.1	105.8	102.3	107.3	109.0	100.1	100.2	99.3	97.6	96.8
52.5°	488.9	222.5	101.2	100.4	104.5	101.5	97.1	97.7	97.3	94.8	94.0
55°	517.4	217.8	98.9	99.7	102.4	92.1	93.7	95.1	94.6	92.2	91.9
57.5°	552.8	216.9	97.5	99.9	100.7	87.4	90.3	92.2	91.9	90.8	90.6
60°	596.3	217.1	96.2	100.2	98.7	83.9	87.2	89.5	89.7	89.5	89.4
62.5°	620.2	210.1	93.0	99.3	95.3	80.9	83.9	87.3	87.4	87.8	87.7
65°	599.9	189.1	87.0	96.2	89.6	78.4	81.0	84.8	83.9	85.6	85.6
66°	580.2	177.0	84.1	94.1	87.2	77.4	80.1	83.5	82.3	84.7	84.7
67.5°	540.0	156.6	78.7	89.7	83.7	76.1	79.1	81.4	79.8	83.3	83.0
70°	466.5	121.1	68.0	79.8	77.9	74.1	77.7	77.2	74.7	80.1	79.1
72.5°	393.3	92.0	54.6	66.8	69.3	71.6	75.7	71.8	68.7	72.5	70.2
75°	305.2	69.2	43.1	51.9	58.5	67.6	73.3	65.5	61.1	60.7	59.5
77.5°	165.0	47.5	34.2	39.7	46.5	62.8	71.7	58.8	52.1	50.6	49.6
80°	65.3	30.9	24.8	30.1	32.5	55.7	67.8	51.0	43.0	41.5	40.0
82.5°	27.0	18.3	16.0	20.1	21.2	47.6	60.9	41.8	33.2	46.0	48.8
85°	11.6	10.0	9.5	10.4	12.0	33.4	48.5	31.9	35.9	32.0	25.4
87.5°	3.5	4.2	4.1	4.0	4.4	8.0	25.8	17.8	26.3	10.0	7.5
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)