

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: P348562

Luminaire Tested: **ARCH-N-PA1-19-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348562
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-PA1-19-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2236 lumens
Efficiency: N/A
Efficacy: 117.7 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

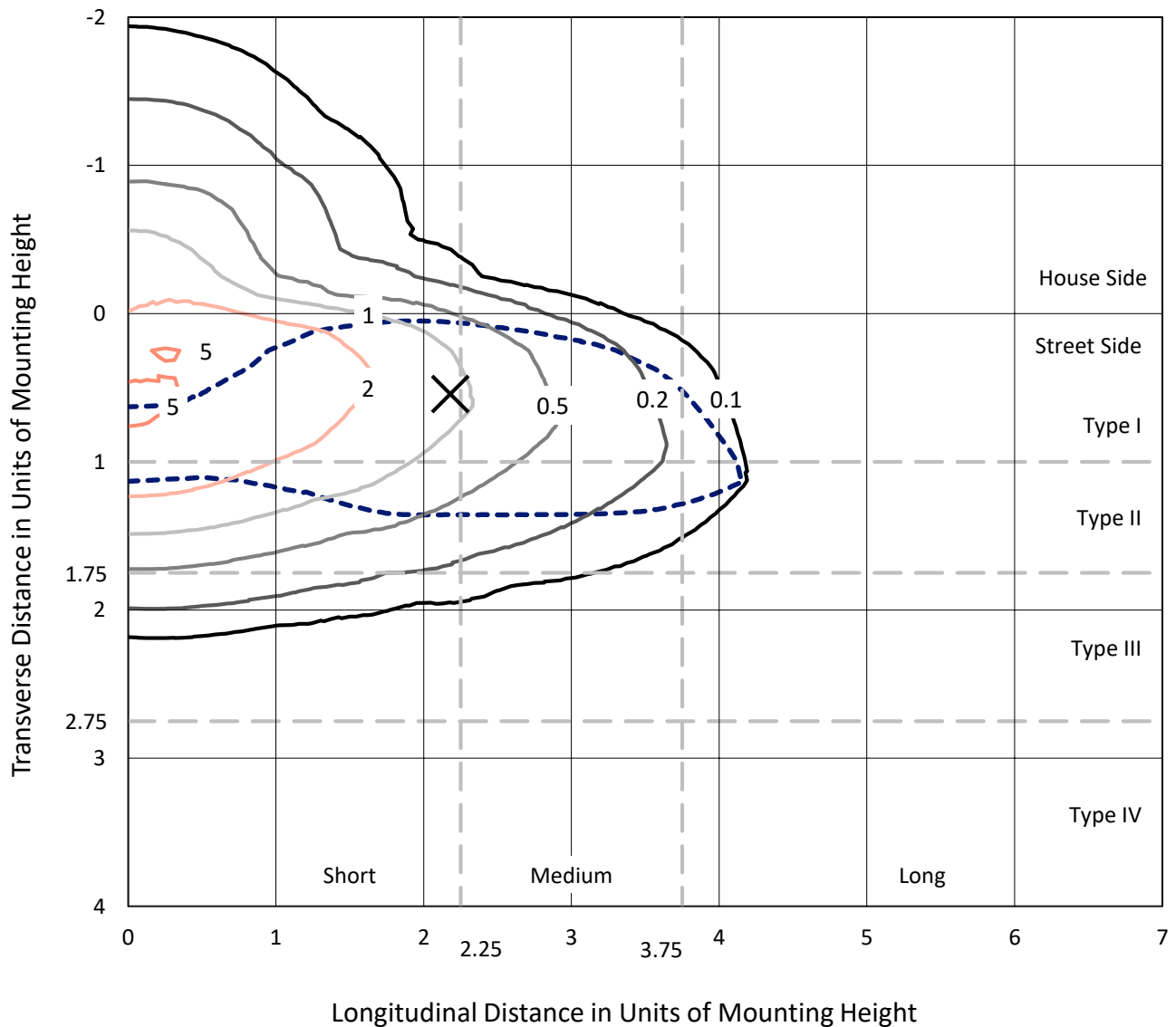
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

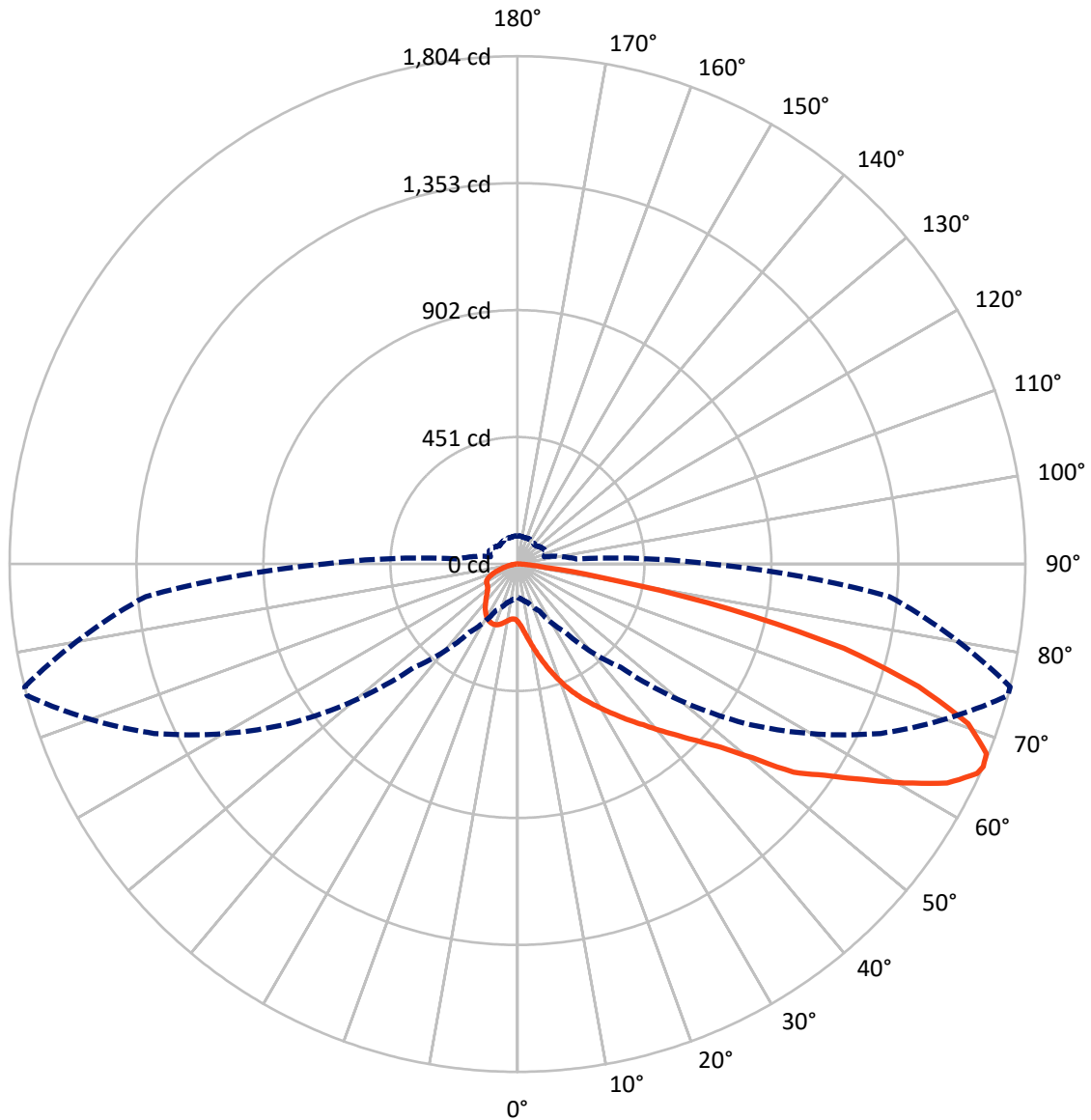


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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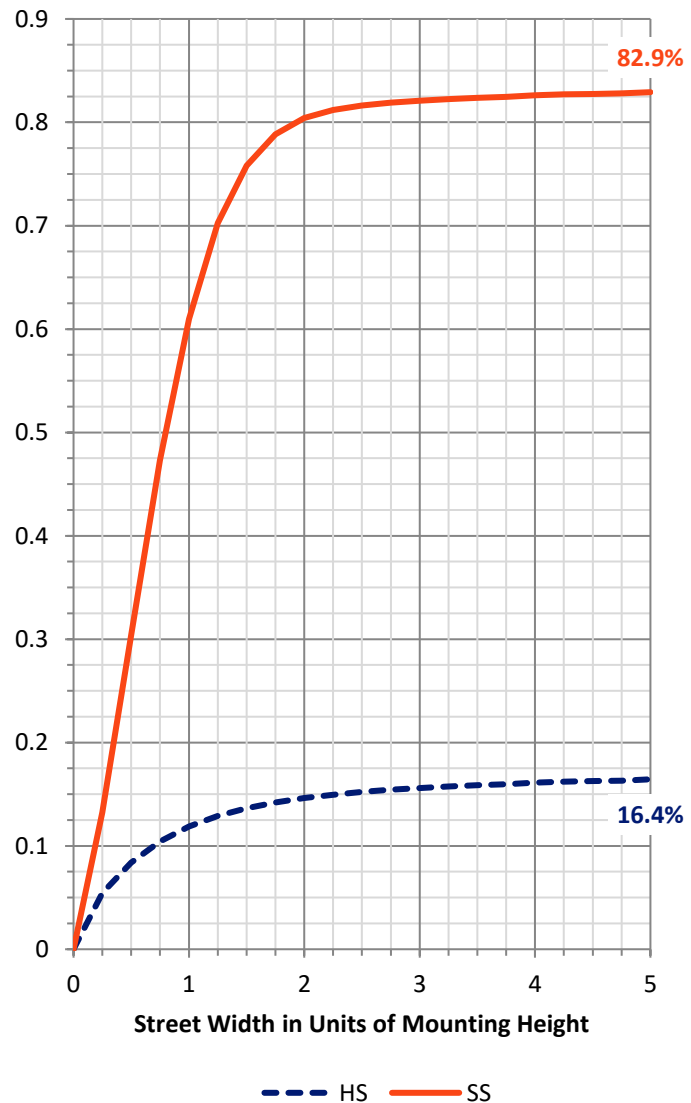
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.2	0.0	376.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	1859.8	0.0	1859.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	2236.0	0.0	2236.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	1.1
10°-20°	97.5	4.4
20°-30°	189.5	8.5
30°-40°	309.3	13.8
40°-50°	422.6	18.9
50°-60°	492.2	22.0
60°-70°	441.3	19.7
70°-80°	223.0	10.0
80°-90°	36.0	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°	2236.0	100.0
0°-180°	2236.0	100.0



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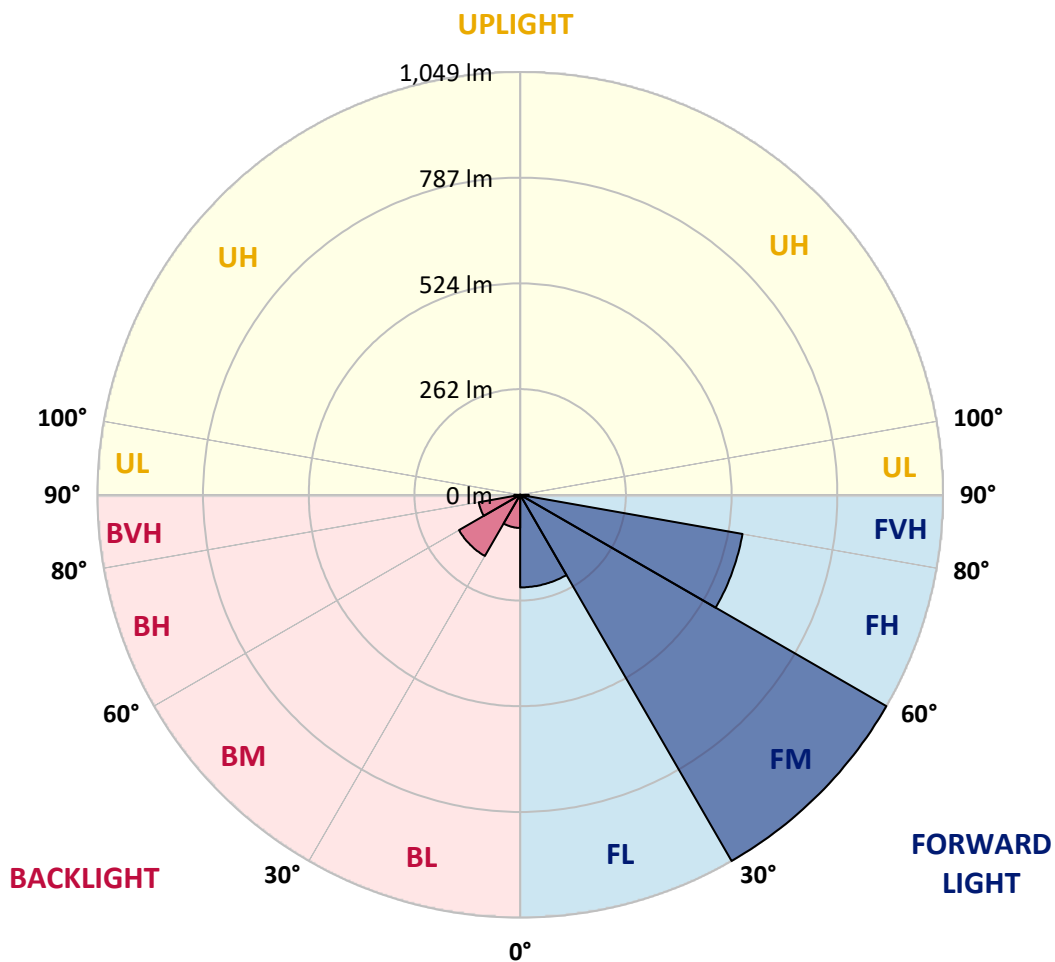
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.6	10.3			
FM (30°-60°)	1048.8	46.9			
FH (60°-80°)	560.0	25.0			G0/660
FVH (80°-90°)	21.3	1.0			G1/100
BL (0°-30°)	82.1	3.7	B0/110		
BM (30°-60°)	175.2	7.8	B0/220		
BH (60°-80°)	104.2	4.7	B0/110		G0/110
BVH (80°-90°)	14.7	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°	204.2	204.2	204.2	204.2	204.2	204.2	204.2	204.2	204.2	204.2	204.2
2.5°	271.1	267.0	266.6	260.6	259.2	247.8	239.3	230.5	220.5	218.5	210.6
5°	348.2	347.8	342.6	332.8	325.1	305.5	286.2	265.7	243.2	239.6	221.8
7.5°	417.6	417.0	412.9	402.4	391.3	367.3	339.6	308.2	271.8	266.4	236.9
10°	470.3	470.0	468.7	460.9	451.5	428.4	397.9	355.0	304.9	297.6	255.8
12.5°	510.9	511.4	512.3	509.6	505.1	485.4	454.2	404.7	340.3	333.0	276.8
15°	538.5	539.9	544.6	548.4	550.8	538.7	508.4	455.5	379.9	371.2	300.1
17.5°	552.4	553.9	562.0	573.7	584.5	583.3	559.2	503.9	418.0	409.5	325.2
20°	564.4	565.5	574.6	588.7	607.7	616.2	602.6	550.5	459.6	449.6	351.8
22.5°	599.2	600.6	603.3	611.3	628.2	643.6	637.1	594.6	497.8	488.5	377.0
25°	666.3	668.0	662.1	655.3	658.5	669.3	670.5	634.8	536.5	526.0	404.1
27.5°	747.1	749.6	739.5	722.1	706.9	702.8	701.3	667.8	573.5	561.3	430.9
30°	826.3	830.6	817.5	794.9	767.1	747.5	733.0	700.0	609.9	598.2	456.1
32.5°	903.6	901.9	882.8	860.8	828.2	803.7	768.6	734.7	650.9	637.5	481.3
35°	956.6	957.2	939.5	913.4	882.3	863.5	816.3	772.0	692.8	680.4	509.8
37.5°	1001.7	998.9	978.9	954.5	927.7	919.6	872.1	813.1	738.1	724.6	540.2
40°	1016.7	1013.5	1000.3	982.8	961.3	960.6	933.6	859.8	789.3	775.9	574.4
42.5°	1007.6	1003.5	998.1	993.3	986.7	989.7	991.5	914.4	845.6	830.7	614.0
45°	974.0	967.7	971.5	981.9	996.2	1013.4	1043.7	974.9	908.7	896.2	660.6
47.5°	922.3	916.6	928.5	950.7	989.7	1033.1	1093.1	1041.7	984.0	971.6	726.8
50°	849.6	851.3	868.2	908.6	967.6	1042.2	1154.0	1130.1	1093.5	1081.9	817.2
52.5°	730.3	730.6	778.2	844.6	928.5	1037.5	1187.8	1243.2	1242.9	1228.9	903.3
55°	619.4	626.2	663.9	752.2	865.0	1018.7	1211.4	1298.1	1341.1	1324.6	983.6
57.5°	511.2	515.1	550.9	639.5	774.4	968.5	1235.6	1364.1	1454.2	1443.8	1083.3
60°	388.1	394.1	431.1	513.0	658.6	879.5	1237.9	1432.9	1589.4	1578.9	1194.7
62.5°	251.9	262.3	297.0	373.7	518.5	751.4	1185.0	1478.0	1717.5	1713.8	1293.5
65°	144.8	152.7	176.7	235.9	357.7	590.7	1059.4	1460.7	1796.4	1794.3	1330.5
66°	118.3	123.2	141.6	184.4	295.1	518.7	986.4	1424.1	1804.2	1804.3	1326.2
67.5°	94.6	96.8	105.1	132.0	217.8	411.1	855.9	1343.6	1794.5	1797.2	1298.8
70°	78.3	79.4	82.0	88.5	118.9	247.9	607.5	1134.3	1697.0	1699.0	1191.9
72.5°	70.2	70.9	71.9	72.8	83.9	138.5	371.0	907.4	1487.8	1490.5	1028.9
75°	63.6	64.0	63.8	63.9	70.4	88.3	191.7	677.5	1203.0	1197.7	788.2
77.5°	55.9	56.2	55.5	55.6	62.2	67.9	95.4	474.3	811.9	774.4	444.1
80°	47.2	47.5	47.2	47.7	54.2	51.2	55.5	266.8	359.0	339.5	157.9
82.5°	35.7	37.0	37.9	40.0	44.6	36.4	37.1	103.9	109.3	104.1	48.4
85°	15.6	19.1	28.5	30.6	33.6	21.9	24.4	42.4	44.5	43.1	17.6
87.5°	4.1	4.5	14.1	17.8	18.6	9.9	12.7	19.3	20.3	19.3	5.8
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°	204.2	204.2	204.2	204.2	204.2	204.2	204.2	204.2	204.2	204.2	204.2
2.5°	206.5	202.8	196.1	190.2	185.7	182.6	179.6	178.1	177.2	176.3	176.4
5°	213.1	205.6	194.1	186.0	181.4	178.5	177.0	176.4	176.0	175.1	175.1
7.5°	223.0	212.4	196.6	188.3	184.7	182.5	181.6	181.3	180.8	179.8	179.9
10°	235.5	220.7	201.8	193.7	190.5	188.0	186.7	186.3	185.4	184.2	184.4
12.5°	250.3	230.9	208.8	200.2	196.3	193.0	190.9	189.6	188.2	186.6	186.7
15°	266.4	242.1	216.2	206.1	200.7	196.2	192.7	190.5	188.3	186.3	186.2
17.5°	282.7	252.9	221.9	209.3	202.0	196.0	191.4	188.0	185.1	182.7	182.5
20°	300.3	262.6	225.1	209.0	199.6	192.4	186.3	182.0	178.9	176.5	176.1
22.5°	318.2	271.7	225.6	205.9	194.2	185.4	179.0	174.3	171.1	168.6	167.7
25°	334.6	278.7	223.4	199.9	186.7	177.2	170.9	166.2	163.6	160.6	159.7
27.5°	349.6	283.7	219.0	192.2	178.2	169.0	163.1	159.0	156.1	153.9	153.1
30°	363.0	286.3	211.8	183.1	169.6	161.2	156.1	153.3	150.9	148.0	147.5
32.5°	375.8	286.3	202.5	173.2	161.0	154.2	151.3	149.5	146.8	144.0	143.2
35°	388.5	284.6	191.6	162.8	153.1	149.3	149.2	147.1	142.9	139.1	138.2
37.5°	401.9	281.0	179.3	153.0	146.7	147.1	148.4	143.8	137.9	132.5	131.1
40°	417.1	276.1	166.5	144.6	141.3	146.1	146.4	139.1	127.6	122.7	121.4
42.5°	435.0	271.1	154.7	137.2	137.0	143.2	142.5	129.0	122.1	119.6	118.9
45°	458.4	268.3	143.5	130.1	133.7	138.4	135.9	123.4	120.5	119.0	118.4
47.5°	495.4	269.8	133.1	124.5	130.3	133.6	123.6	121.1	119.0	117.3	116.7
50°	541.7	268.9	124.8	120.6	126.5	128.6	118.0	118.1	117.1	115.1	114.2
52.5°	576.5	262.4	119.4	118.4	123.2	119.7	114.5	115.2	114.7	111.8	110.8
55°	610.2	256.8	116.7	117.6	120.8	108.6	110.4	112.1	111.6	108.8	108.3
57.5°	652.0	255.7	115.0	117.8	118.7	103.1	106.5	108.7	108.3	107.1	106.9
60°	703.2	256.0	113.5	118.2	116.4	99.0	102.8	105.6	105.8	105.6	105.4
62.5°	731.4	247.8	109.7	117.1	112.4	95.4	98.9	103.0	103.1	103.5	103.5
65°	707.5	223.0	102.6	113.4	105.7	92.5	95.6	100.0	98.9	101.0	101.0
66°	684.3	208.8	99.1	111.0	102.8	91.3	94.5	98.5	97.1	99.9	99.9
67.5°	636.8	184.7	92.8	105.8	98.7	89.7	93.3	96.0	94.1	98.2	97.9
70°	550.1	142.9	80.2	94.1	91.9	87.4	91.6	91.0	88.1	94.5	93.3
72.5°	463.8	108.6	64.4	78.8	81.7	84.4	89.3	84.6	81.0	85.5	82.8
75°	359.9	81.6	50.9	61.3	69.0	79.8	86.5	77.3	72.0	71.6	70.1
77.5°	194.6	56.0	40.3	46.8	54.8	74.0	84.6	69.4	61.5	59.7	58.5
80°	77.0	36.4	29.3	35.4	38.3	65.7	80.0	60.2	50.7	48.9	47.1
82.5°	31.8	21.6	18.9	23.8	25.0	56.2	71.8	49.3	39.2	54.2	57.5
85°	13.7	11.8	11.2	12.3	14.1	39.4	57.2	37.7	42.3	37.7	30.0
87.5°	4.1	5.0	4.8	4.7	5.2	9.4	30.4	21.0	31.0	11.8	8.8
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)