

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: P573037

Luminaire Tested: **ARCH-S-PA2-20-830-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-830-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2151 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

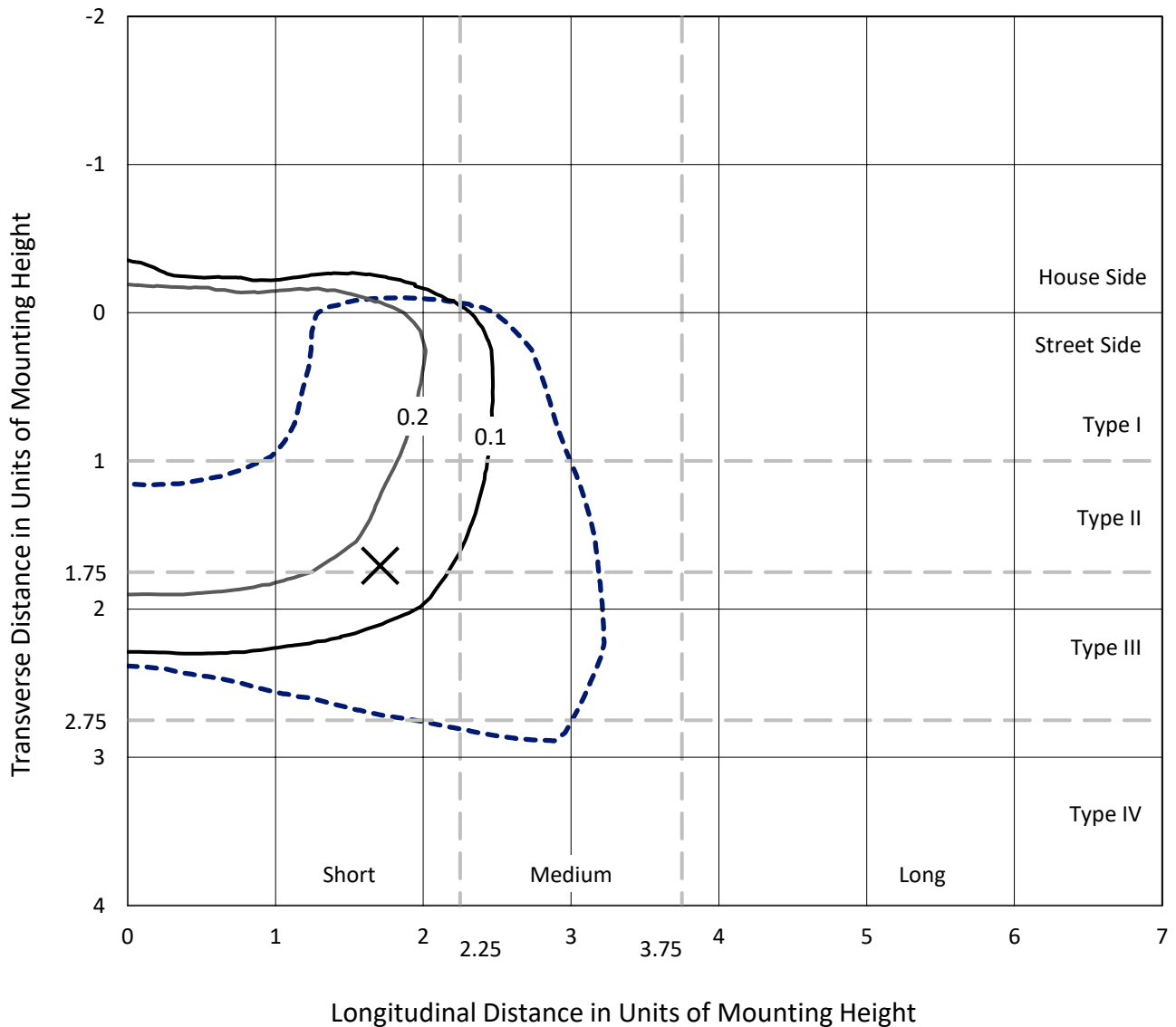
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

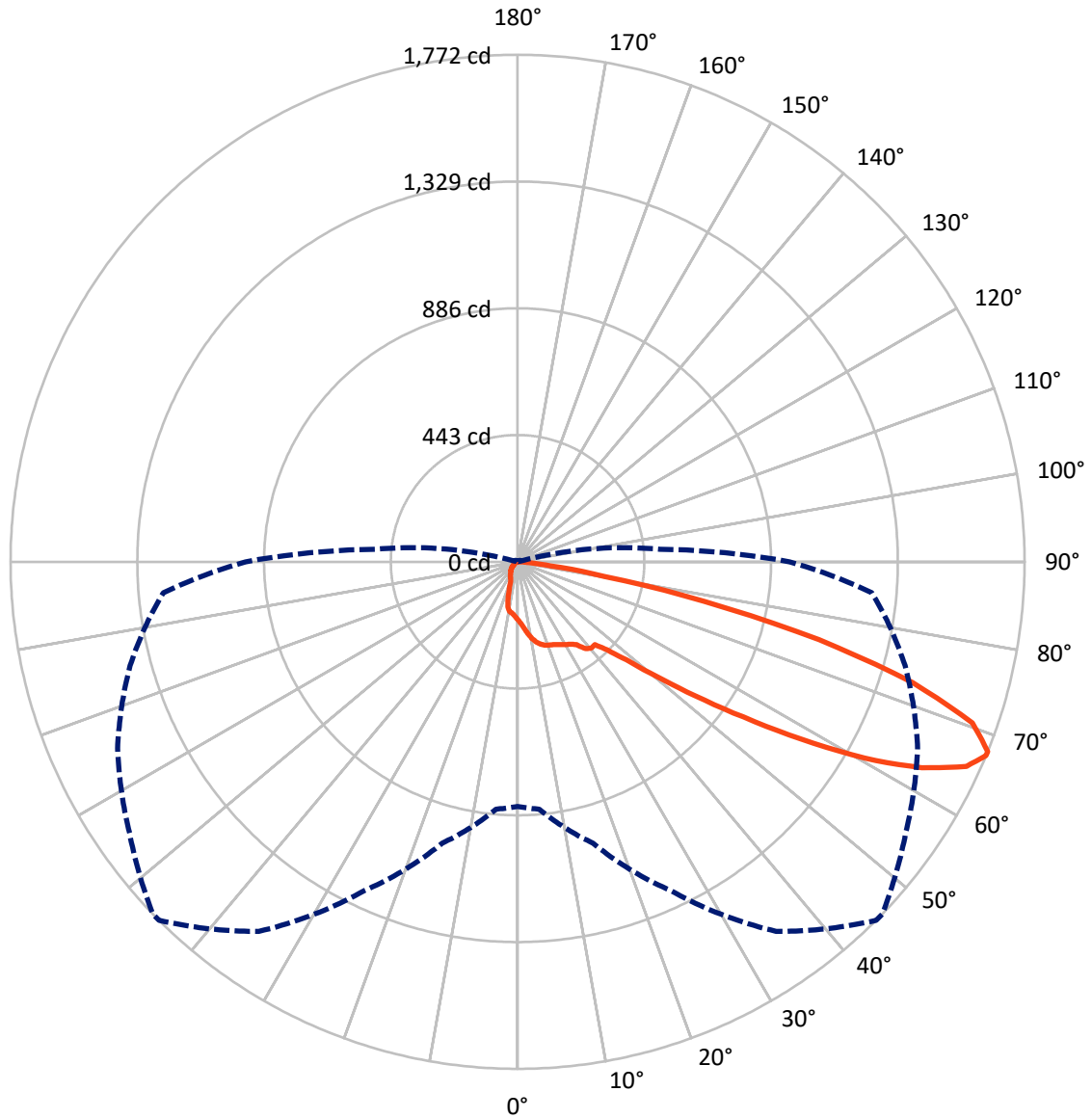
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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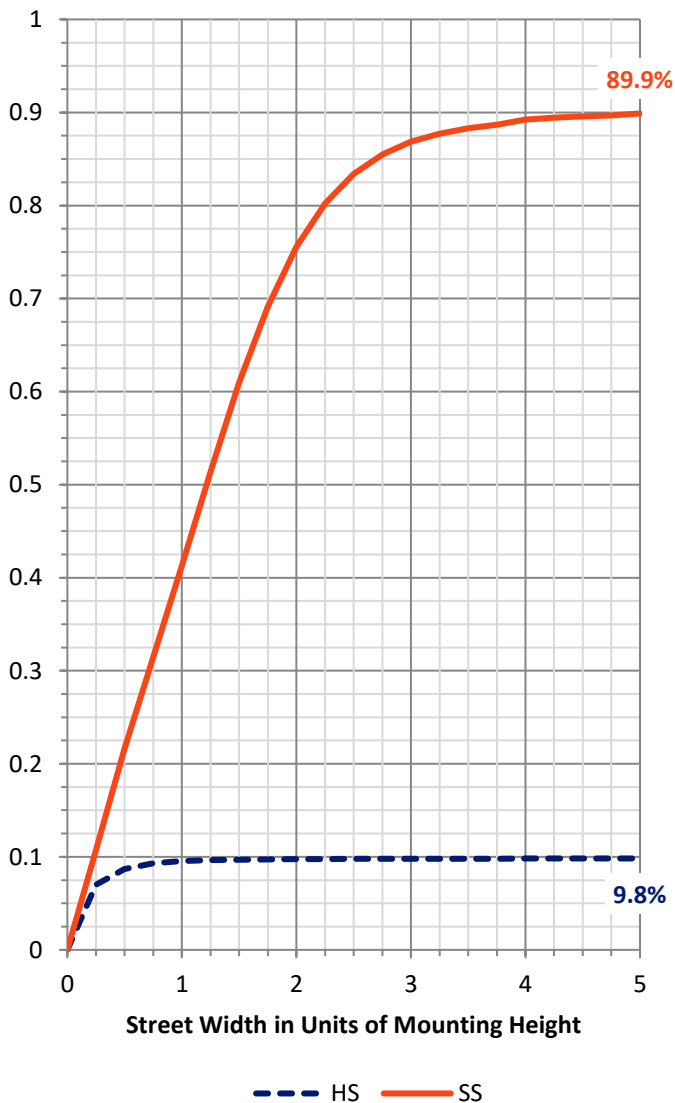
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	213.1	0.0	213.1
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	1937.9	0.0	1937.9
	% Fixture	90.1	0.0	90.1
Total	Lumens	2151.0	0.0	2151.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	0.9
10°-20°	61.7	2.9
20°-30°	98.7	4.6
30°-40°	142.1	6.6
40°-50°	249.3	11.6
50°-60°	525.3	24.4
60°-70°	726.4	33.8
70°-80°	304.1	14.1
80°-90°	23.0	1.1
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°	2151.0	100.0
0°-180°	2151.0	100.0

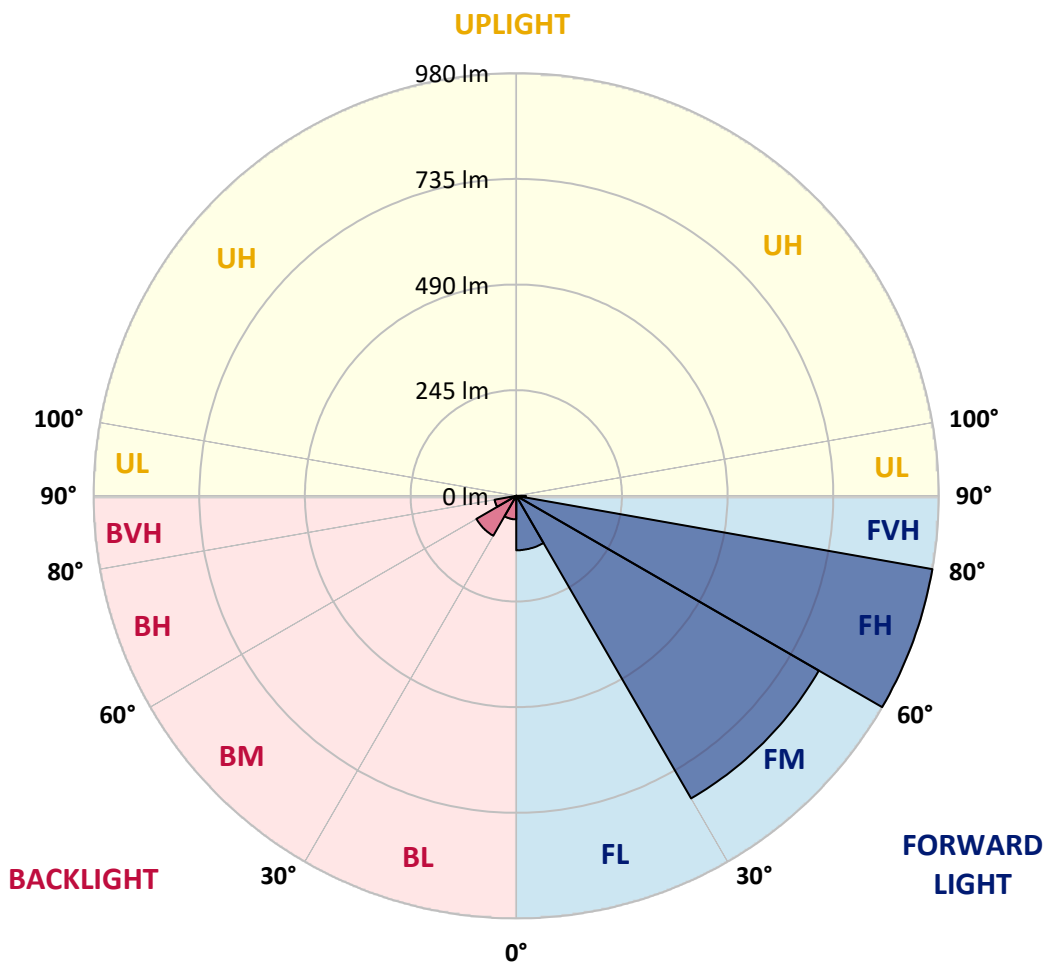


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	126.3	5.9			
FM (30°-60°)	809.9	37.7			
FH (60°-80°)	979.5	45.5			G1/1800
FVH (80°-90°)	22.2	1.0			G1/100
BL (0°-30°)	54.6	2.5	B0/110		
BM (30°-60°)	106.8	5.0	B0/220		
BH (60°-80°)	50.9	2.4	B0/110		G0/110
BVH (80°-90°)	0.8	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4
2.5°	226.5	222.5	221.7	220.9	218.5	215.3	216.1	213.8	209.8	207.4	205.0
5°	254.3	250.3	248.7	244.0	239.2	232.0	232.0	225.7	218.5	212.2	205.8
7.5°	282.9	279.7	276.5	269.4	262.2	252.7	251.9	242.4	231.2	221.7	211.4
10°	306.7	304.3	300.4	291.6	282.1	271.8	269.4	260.6	246.3	233.6	220.1
12.5°	325.8	323.4	317.9	309.1	297.2	286.9	286.1	274.9	260.6	247.1	230.4
15°	340.1	336.1	329.8	320.2	308.3	298.8	297.2	287.7	274.1	259.1	239.2
17.5°	342.5	340.1	334.5	324.2	313.9	305.9	305.1	298.0	286.1	270.2	249.5
20°	336.1	335.3	330.6	322.6	314.7	310.7	309.9	305.1	295.6	281.3	260.6
22.5°	326.6	325.8	322.6	318.6	315.5	314.7	314.7	313.1	307.5	294.0	274.9
25°	320.2	319.4	317.9	315.5	315.5	320.2	321.0	322.6	317.9	307.5	286.9
27.5°	321.0	319.4	317.9	315.5	318.6	327.4	328.2	332.2	328.2	318.6	300.4
30°	332.2	329.8	325.0	319.4	323.4	335.3	336.1	340.9	337.7	333.0	315.5
32.5°	349.6	348.1	338.5	329.0	331.4	343.3	344.9	353.6	357.6	350.4	329.0
35°	375.1	369.5	357.6	348.1	346.5	355.2	357.6	371.9	382.2	364.7	336.9
37.5°	395.7	391.0	371.9	356.8	365.5	385.4	386.2	403.7	394.9	366.3	349.6
40°	465.7	464.9	431.5	383.8	374.3	396.5	399.7	402.9	398.9	384.6	377.5
42.5°	578.5	569.0	531.6	458.5	393.3	395.7	397.3	414.0	434.7	428.3	430.7
45°	700.9	692.9	650.8	558.6	458.5	438.6	440.2	467.2	507.0	514.9	527.6
47.5°	813.7	801.0	777.2	684.2	569.8	511.7	514.9	547.5	613.5	630.9	650.8
50°	909.1	900.3	878.1	816.9	706.4	627.0	630.1	657.2	743.0	770.8	796.2
52.5°	1047.3	1035.4	992.5	963.9	880.5	777.2	770.0	798.6	897.1	915.4	949.6
55°	1174.5	1149.8	1124.4	1112.5	1077.5	956.7	954.4	959.9	1041.8	1051.3	1112.5
57.5°	1228.5	1223.7	1245.2	1284.9	1292.9	1168.1	1157.8	1136.3	1200.7	1199.9	1271.4
60°	1262.7	1262.7	1319.9	1418.4	1482.0	1393.8	1379.5	1312.7	1335.8	1336.6	1402.5
62.5°	1241.2	1246.8	1335.8	1484.4	1612.3	1585.3	1575.8	1463.7	1462.1	1443.9	1466.9
65°	1108.5	1118.1	1261.1	1447.8	1660.0	1723.6	1719.6	1592.4	1546.4	1479.6	1428.0
67°	904.3	921.8	1095.0	1315.9	1606.0	1771.2	1772.0	1648.1	1547.2	1420.0	1290.5
67.5°	855.0	867.7	1017.9	1268.2	1576.6	1772.0	1772.0	1655.2	1542.4	1401.7	1242.8
70°	545.1	548.3	712.0	981.4	1346.9	1686.2	1692.6	1601.2	1404.9	1134.7	872.5
72.5°	269.4	262.2	375.9	631.7	1010.8	1443.1	1459.7	1367.6	1111.7	741.4	460.9
75°	105.7	112.8	163.7	336.1	633.3	1087.9	1100.6	994.9	715.2	382.2	182.0
77.5°	46.9	46.9	69.9	151.0	333.0	667.5	673.9	607.1	377.5	157.3	55.6
80°	25.4	27.0	36.6	66.0	167.7	306.7	334.5	301.2	170.8	69.1	19.1
82.5°	12.7	13.5	22.2	37.3	84.2	116.0	122.4	127.9	78.7	42.9	7.9
85°	4.8	5.6	11.9	21.5	38.1	38.9	38.9	50.1	42.9	32.6	4.0
87.5°	0.8	1.6	5.6	8.7	15.1	13.5	11.9	15.9	23.8	20.7	2.4
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°	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4
2.5°	203.4	201.8	198.7	196.3	194.7	193.1	191.5	191.5	190.7	190.7	191.5
5°	203.4	200.2	193.9	189.9	186.7	184.4	182.8	182.8	182.0	182.8	183.6
7.5°	207.4	202.6	193.9	186.7	182.8	178.8	177.2	176.4	176.4	177.2	176.4
10°	213.8	207.4	196.3	186.7	181.2	175.6	166.9	158.9	151.8	148.6	147.8
12.5°	221.7	213.8	200.2	189.1	180.4	161.3	137.5	122.4	112.8	108.1	106.5
15°	230.4	220.9	205.0	192.3	168.5	132.7	101.7	85.0	79.5	80.3	81.1
17.5°	240.0	229.6	212.2	190.7	144.6	98.5	74.7	70.7	73.1	75.5	75.5
20°	249.5	238.4	219.3	178.8	113.6	73.1	66.7	67.5	69.9	72.3	72.3
22.5°	262.2	250.3	226.5	158.1	84.2	63.6	63.6	65.2	66.7	69.1	69.1
25°	275.7	263.8	231.2	132.7	62.8	59.6	60.4	62.0	63.6	66.0	66.0
27.5°	290.0	278.1	230.4	102.5	54.8	54.8	55.6	58.0	59.6	62.0	62.0
30°	305.9	295.6	221.7	74.7	50.9	50.1	50.1	52.4	54.8	56.4	57.2
32.5°	319.4	310.7	206.6	56.4	47.7	46.1	45.3	46.1	48.5	50.1	50.9
35°	330.6	327.4	184.4	48.5	44.5	42.1	40.5	39.7	40.5	40.5	41.3
37.5°	351.2	352.0	158.1	45.3	42.1	38.9	35.8	33.4	31.8	31.0	30.2
40°	390.2	389.4	130.3	42.9	39.7	35.8	31.0	27.8	23.8	22.2	22.2
42.5°	445.0	433.1	99.3	40.5	37.3	32.6	26.2	21.5	17.5	16.7	16.7
45°	543.5	494.3	74.7	38.9	35.0	28.6	21.5	15.9	13.5	12.7	12.7
47.5°	652.4	565.0	59.6	36.6	32.6	25.4	16.7	12.7	10.3	10.3	10.3
50°	772.4	632.5	50.1	34.2	28.6	21.5	13.5	10.3	9.5	8.7	9.5
52.5°	903.5	685.8	43.7	31.0	24.6	17.5	11.1	9.5	7.9	7.9	7.9
55°	1021.1	721.5	36.6	27.0	20.7	14.3	10.3	7.9	7.2	6.4	5.6
57.5°	1127.6	740.6	29.4	23.0	15.9	11.9	8.7	6.4	5.6	4.0	4.0
60°	1182.4	723.1	23.0	18.3	12.7	9.5	7.2	5.6	4.0	2.4	2.4
62.5°	1191.2	677.8	18.3	14.3	11.1	7.9	5.6	4.0	2.4	1.6	1.6
65°	1114.9	598.4	15.1	11.9	8.7	6.4	4.8	3.2	1.6	0.8	0.8
67°	978.2	514.9	13.5	10.3	7.9	5.6	4.0	2.4	1.6	0.8	0.0
67.5°	951.2	499.8	12.7	10.3	7.9	5.6	4.0	2.4	1.6	0.8	0.0
70°	624.6	345.7	11.9	9.5	7.2	4.8	3.2	2.4	0.8	0.0	0.0
72.5°	340.9	174.0	11.1	8.7	6.4	4.8	3.2	1.6	0.8	0.0	0.0
75°	124.8	66.0	9.5	7.9	5.6	4.8	3.2	1.6	0.8	0.0	0.0
77.5°	42.1	23.0	8.7	7.9	6.4	4.8	3.2	1.6	0.8	0.0	0.0
80°	14.3	10.3	7.2	6.4	4.8	4.0	3.2	1.6	0.8	0.0	0.0
82.5°	5.6	3.2	2.4	2.4	2.4	3.2	3.2	2.4	0.8	0.0	0.0
85°	2.4	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	2.4	1.6	0.8	0.8	0.8	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)