

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: P572969

Luminaire Tested: **ARCH-S-PA2-20-727-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3099 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

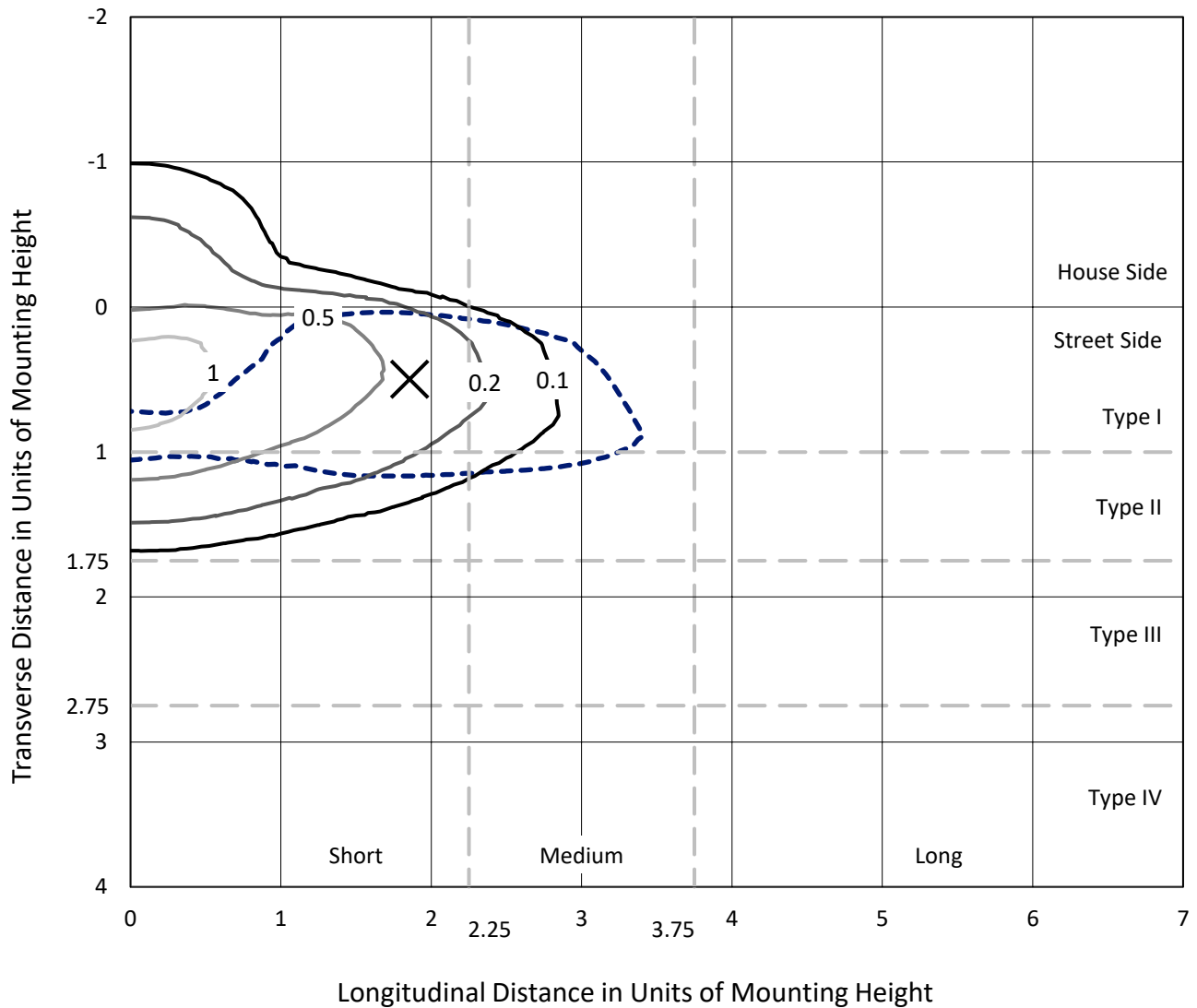
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572969
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

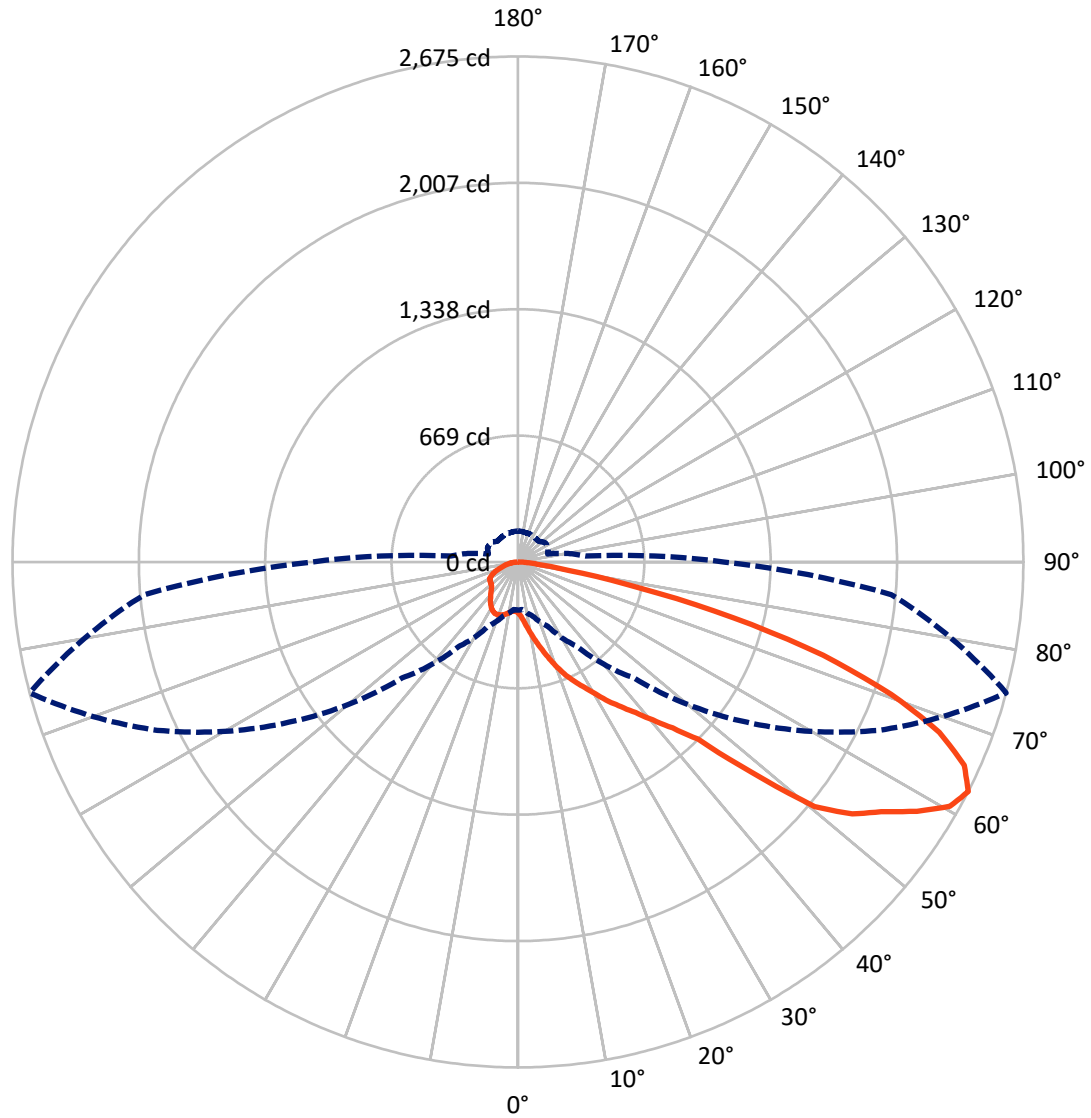
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

REPORT NUMBER: P572969
CATALOG NUMBER: ARCH-S-PA2-20-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P572969
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T2R

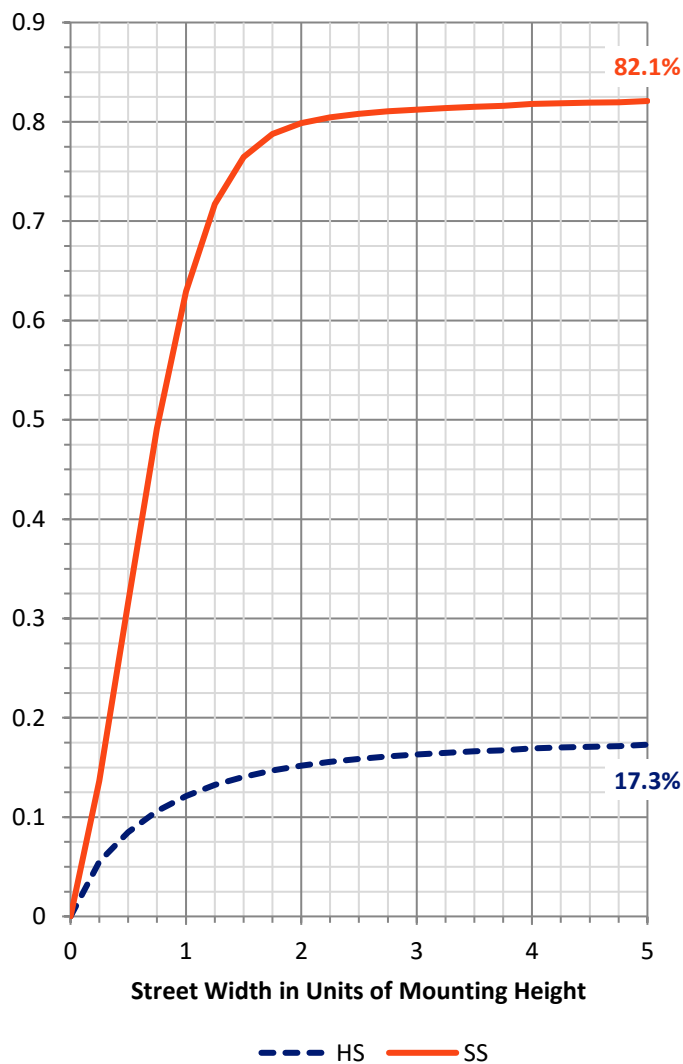
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.6	0.0	546.6
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	2552.4	0.0	2552.4
	% Fixture	82.4	0.0	82.4
Total	Lumens	3099.0	0.0	3099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.0
10°-20°	128.2	4.1
20°-30°	253.7	8.2
30°-40°	422.9	13.6
40°-50°	624.0	20.1
50°-60°	750.1	24.2
60°-70°	583.0	18.8
70°-80°	257.9	8.3
80°-90°	46.7	1.5
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°	3099.0	100.0
0°-180°	3099.0	100.0

Coefficient of Utilization

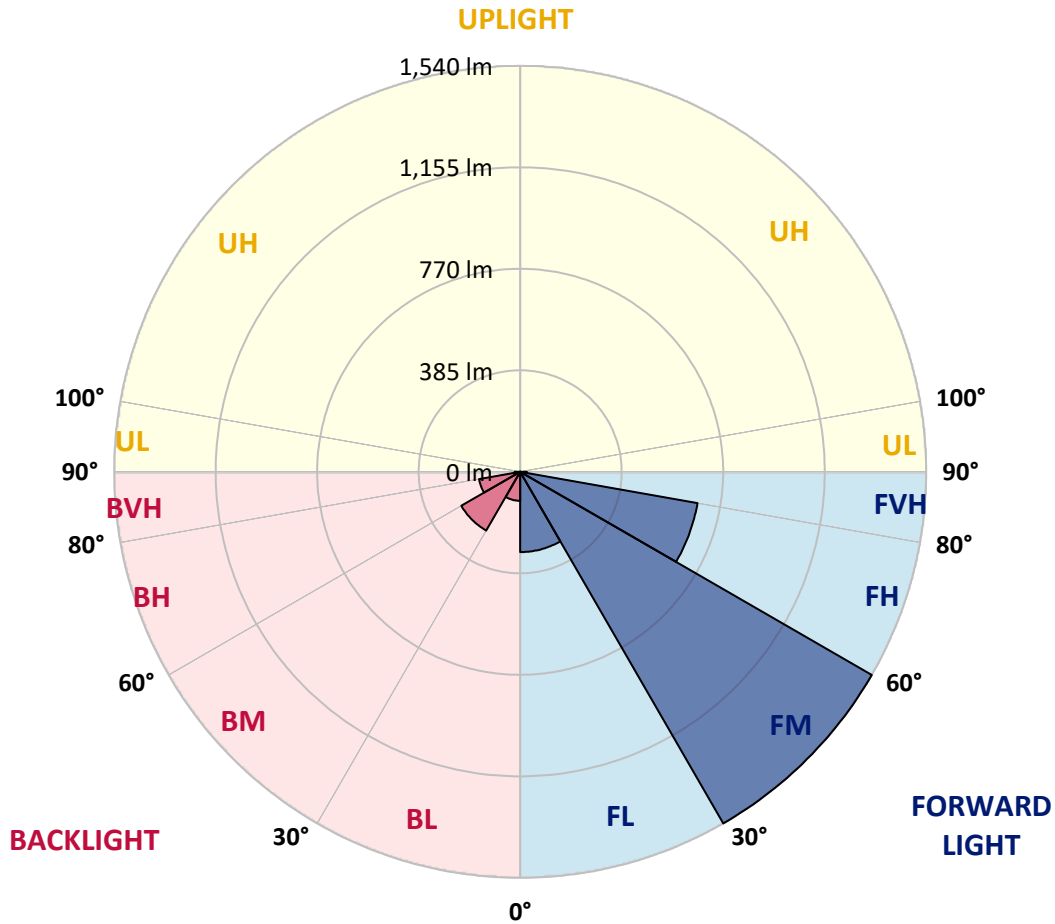


REPORT NUMBER: P572969
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.4	9.8			
FM (30°-60°)	1539.6	49.7			
FH (60°-80°)	682.8	22.0			G1/1800
FVH (80°-90°)	25.7	0.8			G1/100
BL (0°-30°)	110.0	3.5	B0/110		
BM (30°-60°)	257.4	8.3	B1/1000		
BH (60°-80°)	158.1	5.1	B1/500		G1/500
BVH (80°-90°)	21.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P572969

CATALOG NUMBER: ARCH-S-PA2-20-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1
2.5°	345.4	335.4	335.4	324.5	325.3	316.1	306.1	296.1	285.2	276.8	272.6
5°	451.6	444.1	441.6	429.0	409.0	386.4	362.1	337.0	311.1	291.0	281.0
7.5°	551.1	545.3	541.9	527.7	500.1	475.9	437.4	391.4	347.1	309.4	294.4
10°	624.7	620.5	613.9	607.2	587.1	566.2	518.5	453.3	388.1	332.0	309.4
12.5°	678.3	672.4	672.4	671.6	658.2	638.9	594.6	524.4	435.7	357.1	326.2
15°	714.2	713.4	715.9	720.9	717.6	705.0	660.7	589.6	484.2	385.5	345.4
17.5°	741.0	737.6	742.6	756.0	766.1	761.0	724.2	652.3	537.8	416.5	366.3
20°	770.2	763.6	770.2	787.0	799.5	807.0	789.5	712.5	595.5	449.9	386.4
22.5°	826.3	825.4	822.1	827.1	835.5	848.9	838.8	773.6	651.5	483.4	409.8
25°	926.6	917.4	908.2	897.4	888.2	892.3	884.0	830.5	702.5	520.2	429.9
27.5°	1038.7	1028.7	1011.9	985.2	960.1	945.0	927.5	879.8	751.8	553.6	449.1
30°	1141.6	1138.2	1113.1	1083.9	1040.4	1012.8	979.3	936.7	811.2	590.4	469.2
32.5°	1237.7	1231.1	1206.0	1175.0	1124.0	1093.1	1047.1	998.6	879.0	635.6	490.1
35°	1320.5	1313.9	1284.6	1245.3	1200.9	1174.2	1121.5	1053.8	940.9	674.9	507.6
37.5°	1383.3	1375.7	1348.1	1309.7	1270.4	1257.8	1212.7	1124.0	1011.1	724.2	529.4
40°	1418.4	1409.2	1390.8	1364.0	1331.4	1325.6	1306.3	1211.0	1099.8	784.5	561.2
42.5°	1422.6	1414.2	1404.2	1401.7	1399.2	1404.2	1413.4	1309.7	1200.9	864.7	608.0
45°	1385.8	1380.8	1381.6	1410.0	1449.3	1495.3	1550.5	1455.2	1337.3	1017.8	713.4
47.5°	1307.2	1304.7	1323.1	1370.7	1458.5	1563.1	1719.5	1704.4	1660.1	1264.5	848.9
50°	1180.0	1175.9	1215.2	1290.4	1415.9	1585.7	1833.2	1998.0	2034.8	1456.0	937.5
52.5°	997.7	1002.7	1063.8	1166.7	1318.0	1561.4	1880.0	2118.4	2215.4	1597.4	1005.3
55°	811.2	803.7	858.9	986.0	1173.3	1472.8	1889.2	2187.8	2332.5	1727.8	1071.3
57.5°	591.3	609.7	668.2	783.6	986.9	1312.2	1835.7	2235.5	2489.7	1858.3	1132.4
60°	400.6	400.6	452.4	567.9	762.7	1117.3	1692.7	2217.9	2626.9	1960.3	1145.8
62.5°	255.1	252.6	294.4	376.3	546.1	868.1	1478.6	2107.5	2675.4	1984.6	1089.7
65°	161.4	164.8	179.8	230.0	349.6	616.4	1186.7	1887.6	2595.9	1928.5	991.9
67.5°	129.6	130.5	138.0	158.9	214.9	395.6	879.8	1584.0	2406.1	1787.2	877.3
70°	114.6	116.2	117.9	125.4	147.2	250.1	577.9	1275.4	2095.0	1541.3	754.4
72.5°	104.5	106.2	107.9	109.6	121.3	163.1	341.2	966.8	1690.2	1184.2	575.4
75°	96.2	97.8	97.8	98.7	105.4	121.3	187.3	666.5	1176.7	736.8	358.8
77.5°	86.1	87.0	87.0	88.6	95.3	95.3	116.2	412.3	653.2	333.7	181.5
80°	72.8	74.4	74.4	76.9	83.6	73.6	77.8	210.8	271.0	137.2	81.1
82.5°	53.5	56.9	58.5	62.7	66.9	56.0	56.0	106.2	114.6	61.1	43.5
85°	29.3	30.1	43.5	46.8	49.3	33.5	37.6	52.7	56.9	26.8	21.7
87.5°	8.4	9.2	20.9	25.9	23.4	14.2	15.9	20.1	20.1	7.5	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



REPORT NUMBER: P572969
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T2R

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1
2.5°	269.3	262.6	256.7	252.6	248.4	245.9	245.0	243.4	243.4	244.2
5°	272.6	260.9	251.7	246.7	243.4	241.7	240.9	240.9	241.7	241.7
7.5°	281.0	263.4	255.1	250.9	247.5	245.9	245.9	245.0	245.9	245.9
10°	292.7	271.0	261.8	256.7	254.2	251.7	250.9	250.1	250.1	250.1
12.5°	305.3	279.3	269.3	263.4	259.3	255.9	254.2	252.6	251.7	251.7
15°	317.0	287.7	274.3	267.6	261.8	256.7	253.4	250.9	250.1	250.1
17.5°	329.5	293.5	277.7	268.5	260.9	254.2	250.1	246.7	245.0	245.0
20°	342.9	297.7	277.7	265.9	255.9	249.2	244.2	240.9	237.5	237.5
22.5°	353.8	299.4	274.3	260.1	250.1	241.7	236.7	232.5	230.0	230.0
25°	363.0	297.7	266.8	250.9	239.2	231.7	226.6	223.3	220.8	220.8
27.5°	368.8	291.0	257.6	240.9	230.0	222.5	219.1	215.8	214.1	214.1
30°	372.2	282.7	245.9	230.0	219.1	214.9	213.3	209.9	207.4	206.6
32.5°	373.8	270.1	234.2	219.1	211.6	209.9	209.9	205.7	202.4	201.6
35°	372.2	256.7	222.5	209.9	207.4	208.2	206.6	201.6	197.4	195.7
37.5°	369.7	240.9	209.9	203.2	205.7	207.4	202.4	195.7	189.0	187.3
40°	368.0	226.6	199.9	196.5	204.1	204.9	195.7	183.2	178.1	176.5
42.5°	376.3	212.4	190.7	191.5	199.9	200.7	184.0	178.1	174.8	174.0
45°	404.8	199.9	183.2	188.2	194.9	191.5	178.1	177.3	174.8	174.0
47.5°	426.5	190.7	179.8	185.7	190.7	179.0	177.3	176.5	174.0	173.1
50°	434.0	184.8	179.0	184.0	184.8	173.1	175.6	175.6	173.1	172.3
52.5°	434.9	181.5	180.6	183.2	175.6	170.6	174.0	174.0	171.4	170.6
55°	438.2	179.8	181.5	183.2	165.6	167.3	170.6	171.4	168.9	168.1
57.5°	431.5	177.3	183.2	184.0	161.4	163.9	167.3	167.3	167.3	167.3
60°	405.6	172.3	182.3	182.3	158.1	159.7	163.1	164.8	165.6	165.6
62.5°	357.9	162.2	177.3	177.3	154.7	156.4	160.6	160.6	163.1	163.1
65°	297.7	148.0	167.3	166.4	151.4	153.0	158.1	156.4	160.6	161.4
67.5°	248.4	130.5	152.2	153.9	148.0	152.2	155.6	149.7	158.1	158.1
70°	198.2	109.6	132.1	139.7	142.2	153.0	150.5	141.3	152.2	149.7
72.5°	153.9	92.8	108.7	122.1	135.5	152.2	139.7	129.6	136.3	132.1
75°	112.1	76.9	89.5	101.2	126.3	149.7	128.8	113.7	113.7	112.1
77.5°	78.6	62.7	71.9	80.3	117.1	143.0	115.4	97.8	93.7	92.8
80°	53.5	49.3	56.9	61.9	103.7	129.6	99.5	81.1	73.6	71.9
82.5°	35.1	35.1	38.5	41.8	80.3	107.9	77.8	60.2	77.8	74.4
85°	20.1	20.9	20.9	24.3	44.3	76.1	55.2	60.2	36.0	33.5
87.5°	6.7	6.7	6.7	6.7	9.2	30.9	23.4	21.7	8.4	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)