

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: P573034

Luminaire Tested: **ARCH-S-PA2-20-830-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)  
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-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2899 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

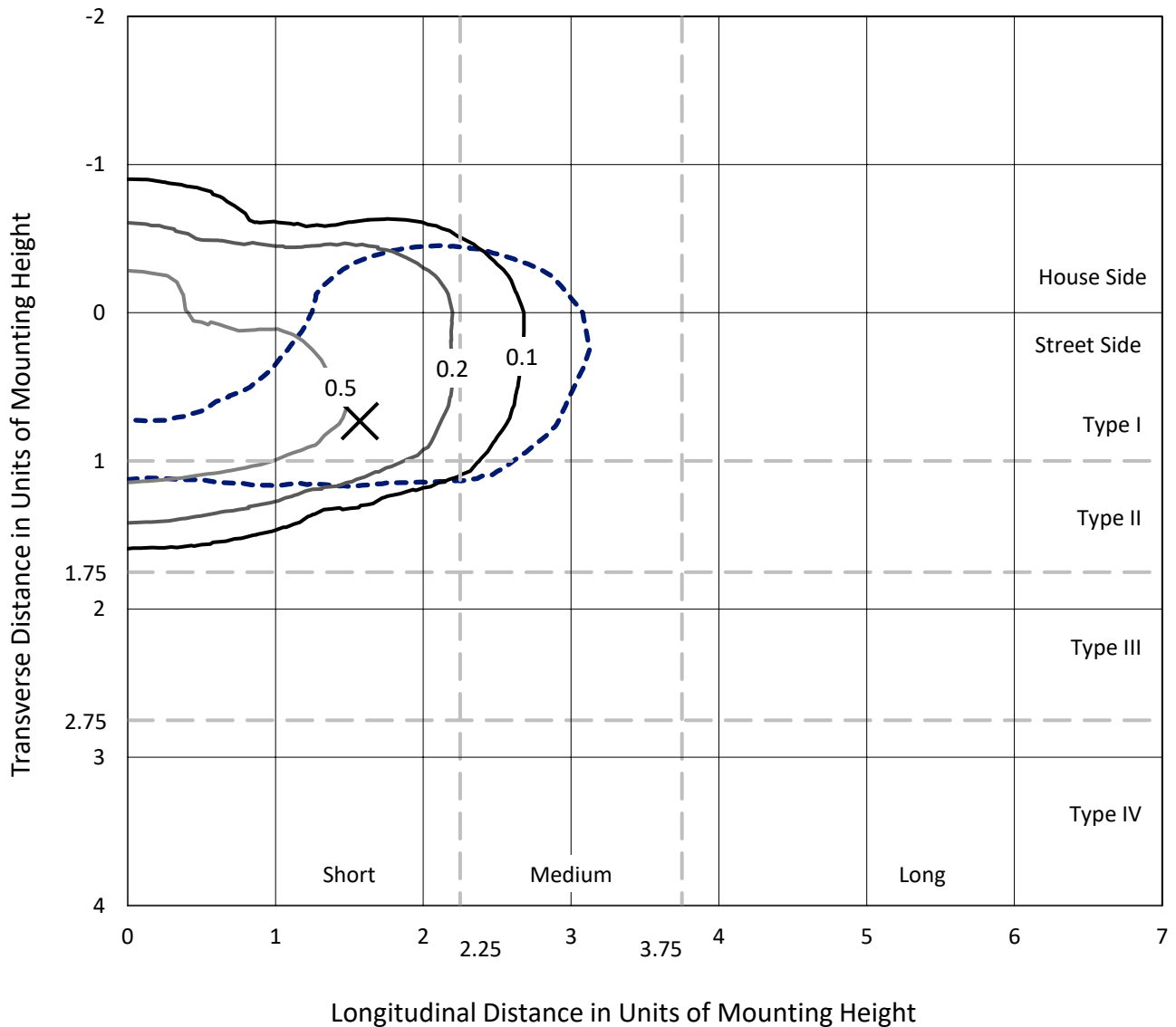
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P573034  
 CATALOG NUMBER: ARCH-S-PA2-20-830-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

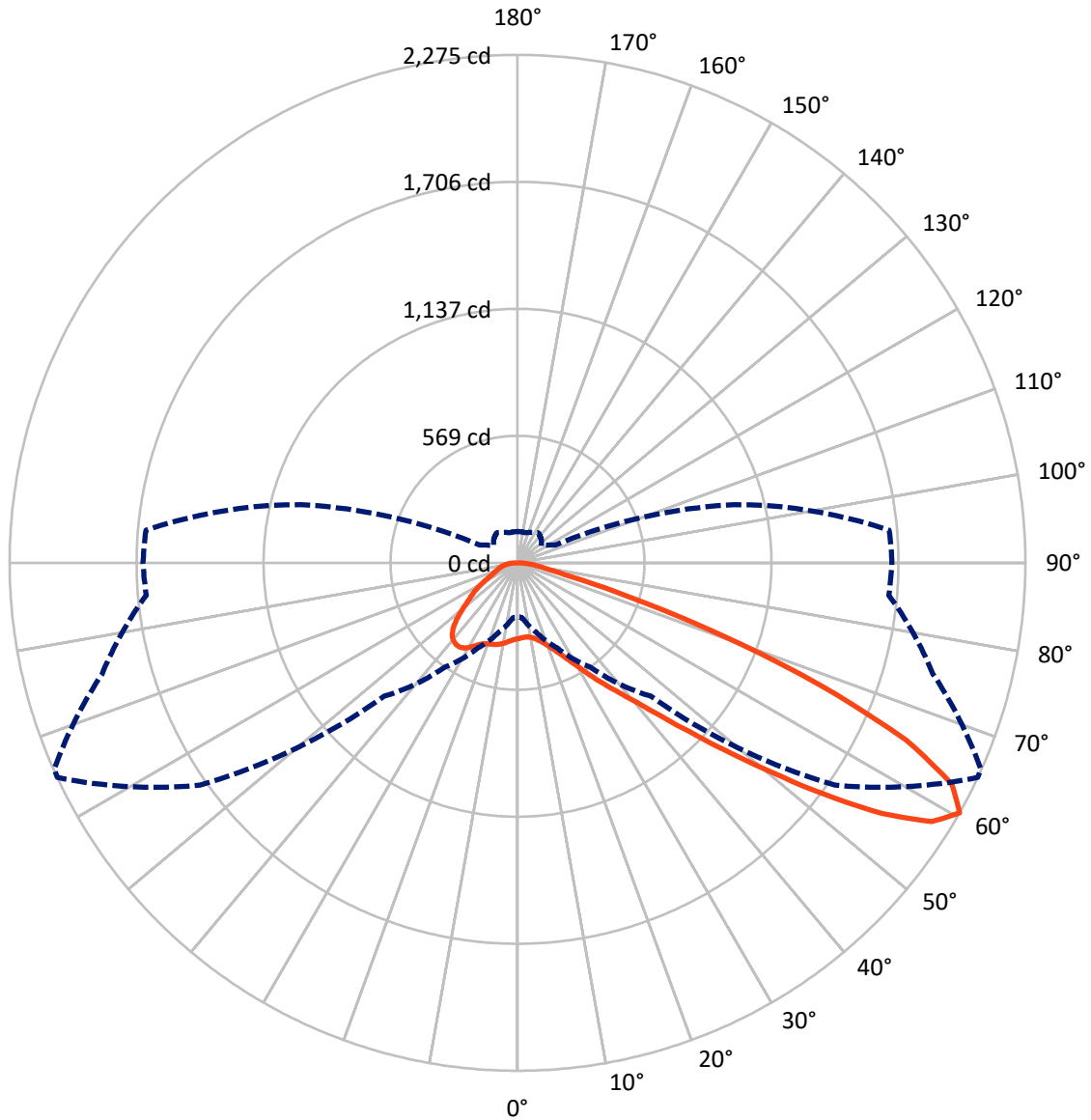
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Short - N/A

REPORT NUMBER: P573034  
CATALOG NUMBER: ARCH-S-PA2-20-830-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P573034  
 CATALOG NUMBER: ARCH-S-PA2-20-830-U-T2U

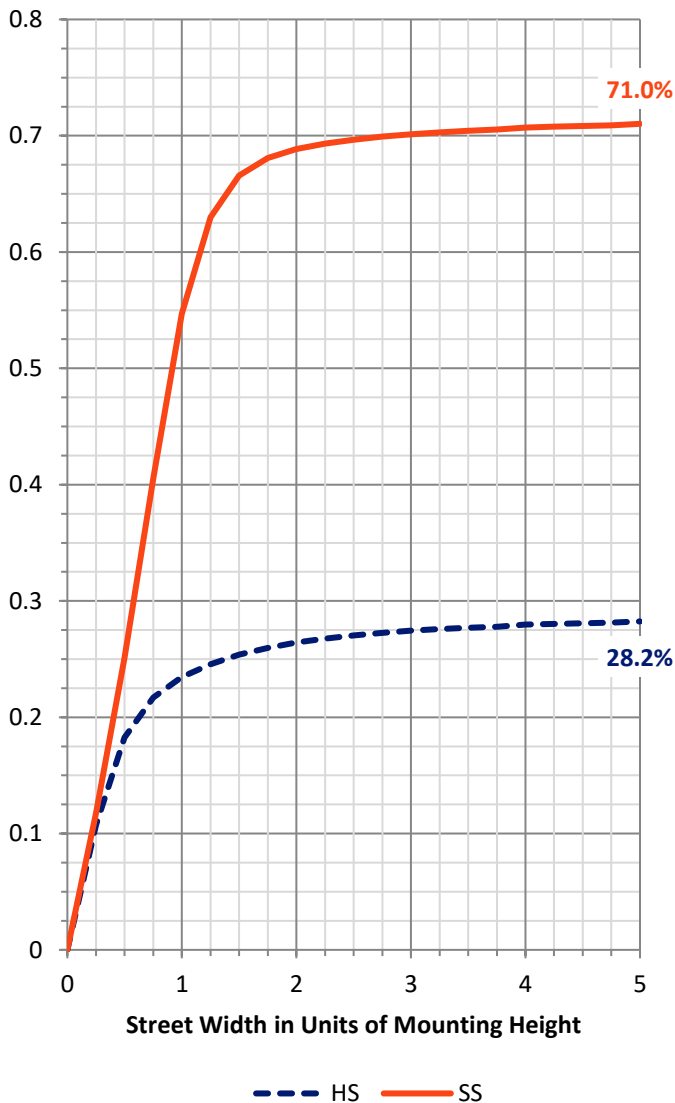
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	829.9	0.0	829.9
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	2069.1	0.0	2069.1
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	2899.0	0.0	2899.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.9	1.1
10°-20°	105.8	3.6
20°-30°	202.7	7.0
30°-40°	352.1	12.1
40°-50°	597.2	20.6
50°-60°	743.6	25.7
60°-70°	599.2	20.7
70°-80°	226.9	7.8
80°-90°	38.5	1.3
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°	2899.0	100.0
0°-180°	2899.0	100.0

**Coefficient of Utilization**



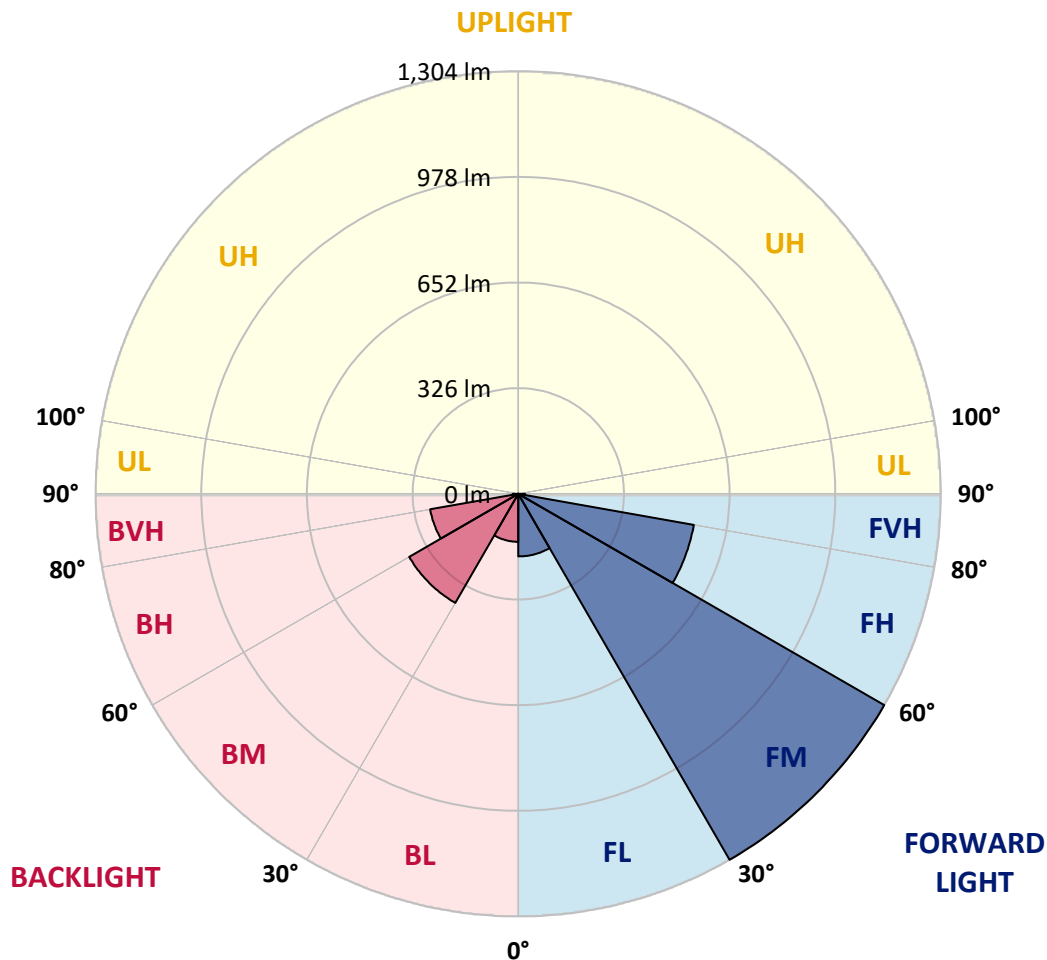
REPORT NUMBER: P573034  
 CATALOG NUMBER: ARCH-S-PA2-20-830-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.3	6.7			
FM (30°-60°)	1304.3	45.0			
FH (60°-80°)	550.2	19.0			G0/660
FVH (80°-90°)	21.3	0.7			G1/100
BL (0°-30°)	148.1	5.1	B1/500		
BM (30°-60°)	388.7	13.4	B1/1000		
BH (60°-80°)	275.9	9.5	B1/500		G1/500
BVH (80°-90°)	17.1	0.6			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: P573034

CATALOG NUMBER: ARCH-S-PA2-20-830-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1
2.5°	332.2	332.2	332.2	333.0	333.8	334.6	336.2	336.2	336.2	337.0	338.6
5°	325.8	325.0	325.8	326.6	328.2	329.8	333.0	334.6	334.6	337.8	340.9
7.5°	326.6	325.0	325.0	325.8	327.4	329.0	332.2	334.6	335.4	339.3	344.9
10°	334.6	332.2	332.2	333.0	333.0	334.6	337.0	340.1	340.9	344.9	350.5
12.5°	351.3	348.9	348.1	345.7	343.3	344.9	347.3	348.1	348.9	351.3	356.8
15°	386.2	382.3	375.9	371.1	364.8	360.8	360.0	360.8	360.8	361.6	364.8
17.5°	436.3	431.5	422.0	411.7	396.6	383.8	379.9	376.7	376.7	374.3	374.3
20°	497.5	490.3	479.2	464.1	441.9	418.8	405.3	398.2	395.8	391.8	386.2
22.5°	568.2	563.5	549.2	526.1	492.7	461.7	439.5	423.6	423.6	414.0	402.1
25°	651.7	642.9	626.2	599.2	553.9	509.4	479.2	456.2	453.8	438.7	419.6
27.5°	732.7	727.2	706.5	670.7	616.7	565.0	522.9	495.9	491.9	468.1	438.7
30°	831.3	824.9	793.9	743.9	685.8	627.0	577.8	542.8	538.8	506.2	464.9
32.5°	953.7	932.2	894.1	836.8	762.1	696.2	639.7	602.4	597.6	560.3	511.0
35°	1102.3	1084.0	1018.0	957.6	868.6	782.0	714.5	665.2	658.8	614.3	552.3
37.5°	1207.2	1198.4	1153.1	1105.5	1003.7	886.9	804.3	735.9	729.6	670.7	590.5
40°	1273.1	1264.4	1251.7	1238.2	1181.7	1049.8	912.3	819.4	809.0	753.4	666.8
42.5°	1307.3	1300.2	1302.5	1329.6	1345.5	1324.8	1066.5	930.6	923.5	855.9	759.8
45°	1287.4	1282.7	1305.7	1377.2	1455.1	1607.7	1264.4	1076.8	1057.8	977.5	872.6
47.5°	1192.1	1177.8	1231.8	1353.4	1520.3	1742.8	1502.8	1257.2	1236.6	1121.3	987.0
50°	995.8	991.8	1065.7	1219.9	1494.9	1796.1	1757.9	1470.2	1455.1	1276.3	1114.2
52.5°	813.0	811.4	868.6	1010.1	1332.7	1758.7	1943.1	1723.7	1678.4	1432.1	1252.5
55°	631.0	630.2	681.1	786.8	1063.3	1583.1	2030.5	1982.0	1948.7	1602.2	1394.7
57.5°	431.5	426.0	491.9	572.2	798.7	1254.1	1973.3	2186.3	2165.6	1782.6	1545.7
60°	240.0	248.0	321.1	420.4	571.4	844.8	1734.9	2274.5	2271.3	1926.4	1668.9
62.5°	170.1	173.2	204.2	298.8	375.9	484.0	1338.3	2183.1	2208.5	2005.9	1738.8
65°	141.5	143.0	158.1	220.9	275.0	279.7	834.5	1912.1	1945.5	1981.2	1753.9
67.5°	133.5	134.3	142.3	162.9	215.4	202.7	372.7	1459.9	1530.6	1782.6	1655.4
70°	121.6	122.4	134.3	143.8	174.0	159.7	191.5	969.6	1064.9	1409.0	1427.3
72.5°	104.1	106.5	116.0	135.1	141.5	132.7	147.8	518.2	612.7	942.5	1102.3
75°	89.8	91.4	98.5	114.4	132.7	105.7	125.6	236.0	276.6	553.1	697.8
77.5°	72.3	73.1	83.4	93.8	111.3	85.8	97.8	141.5	148.6	270.2	315.5
80°	54.8	54.8	62.0	74.7	82.7	82.7	71.5	98.5	102.5	128.7	124.8
82.5°	42.1	41.3	46.9	52.5	59.6	69.1	54.0	65.2	66.8	77.9	66.8
85°	27.8	27.8	31.0	35.8	39.7	38.1	42.1	38.1	39.7	48.5	36.6
87.5°	11.9	11.9	16.7	15.9	17.5	18.3	20.7	18.3	18.3	22.3	16.7
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: P573034

CATALOG NUMBER: ARCH-S-PA2-20-830-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1
2.5°	339.3	340.1	341.7	342.5	344.9	345.7	345.7	347.3	347.3	348.9	348.9
5°	341.7	344.1	346.5	348.9	351.3	352.1	353.7	354.4	354.4	356.0	355.2
7.5°	346.5	348.9	353.7	356.0	359.2	360.8	360.0	360.8	360.0	360.8	360.8
10°	352.9	356.0	361.6	364.8	367.2	368.0	365.6	363.2	360.0	360.0	360.0
12.5°	360.0	362.4	369.5	371.9	373.5	371.1	364.8	360.0	357.6	358.4	357.6
15°	367.2	369.5	375.1	377.5	377.5	370.3	364.8	363.2	362.4	363.2	363.2
17.5°	374.3	376.7	381.5	381.5	379.1	373.5	368.0	362.4	358.4	356.0	356.0
20°	383.8	383.8	385.4	385.4	384.6	375.9	362.4	348.9	340.9	336.2	335.4
22.5°	396.6	393.4	390.2	390.2	393.4	370.3	344.1	323.5	310.7	309.1	306.0
25°	410.1	402.9	395.0	400.5	395.0	356.0	318.7	290.9	275.8	270.2	271.8
27.5°	424.4	413.3	401.3	417.2	387.0	328.2	282.9	251.9	237.6	233.6	233.6
30°	444.2	427.6	410.1	434.7	371.9	296.4	240.8	218.5	210.6	207.4	206.6
32.5°	482.4	457.0	431.5	450.6	355.2	255.1	212.2	198.7	189.1	186.0	188.3
35°	516.6	480.8	464.1	457.8	329.0	221.7	194.7	182.8	174.8	170.9	170.9
37.5°	547.6	513.4	500.7	457.8	294.8	201.1	183.6	174.0	163.7	160.5	160.5
40°	615.1	569.8	547.6	451.4	252.7	190.7	178.0	166.9	158.1	155.0	154.2
42.5°	708.1	646.9	596.0	437.1	217.0	186.0	174.8	162.1	155.0	152.6	151.8
45°	806.6	752.6	642.1	411.7	193.9	181.2	174.0	160.5	151.8	149.4	148.6
47.5°	925.8	870.2	695.4	372.7	178.0	178.0	173.2	158.1	150.2	147.8	147.8
50°	1057.8	1011.7	762.9	328.2	166.1	175.6	171.7	158.1	149.4	147.0	146.2
52.5°	1192.9	1171.4	833.7	284.5	154.2	172.5	170.9	158.1	147.8	145.4	145.4
55°	1364.5	1347.0	915.5	251.9	144.6	166.1	170.9	156.6	145.4	143.8	143.8
57.5°	1533.0	1526.7	979.1	223.3	137.5	158.1	168.5	154.2	143.0	142.3	142.3
60°	1676.9	1670.5	1006.1	187.6	130.3	150.2	163.7	150.2	139.1	139.9	139.9
62.5°	1765.9	1729.3	986.2	155.0	123.2	143.0	158.1	145.4	135.1	137.5	136.7
65°	1781.8	1696.7	909.2	129.5	115.2	135.1	151.8	139.9	129.5	135.1	134.3
67.5°	1664.9	1523.5	764.5	112.9	107.3	126.4	144.6	131.9	123.2	131.1	128.7
70°	1412.2	1237.4	565.8	100.1	99.3	116.0	135.1	122.4	114.4	118.4	115.2
72.5°	1051.4	893.3	366.4	90.6	90.6	104.1	121.6	110.5	102.5	103.3	100.1
75°	655.6	549.2	208.2	81.9	81.9	92.2	108.1	97.0	91.4	88.2	92.2
77.5°	298.0	241.6	109.7	73.1	73.9	78.7	93.0	82.7	76.3	71.5	73.9
80°	110.5	98.5	71.5	62.8	64.4	65.2	74.7	66.0	60.4	57.2	55.6
82.5°	57.2	53.2	48.5	50.1	52.5	50.1	58.0	49.3	42.9	40.5	34.2
85°	28.6	27.8	29.4	33.4	36.6	31.0	35.0	31.8	26.2	19.1	19.1
87.5°	11.1	11.9	11.1	15.1	16.7	14.3	15.9	11.1	7.9	4.0	3.2
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)