

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: P573056

Luminaire Tested: **ARCH-S-PA2-30-727-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4372 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

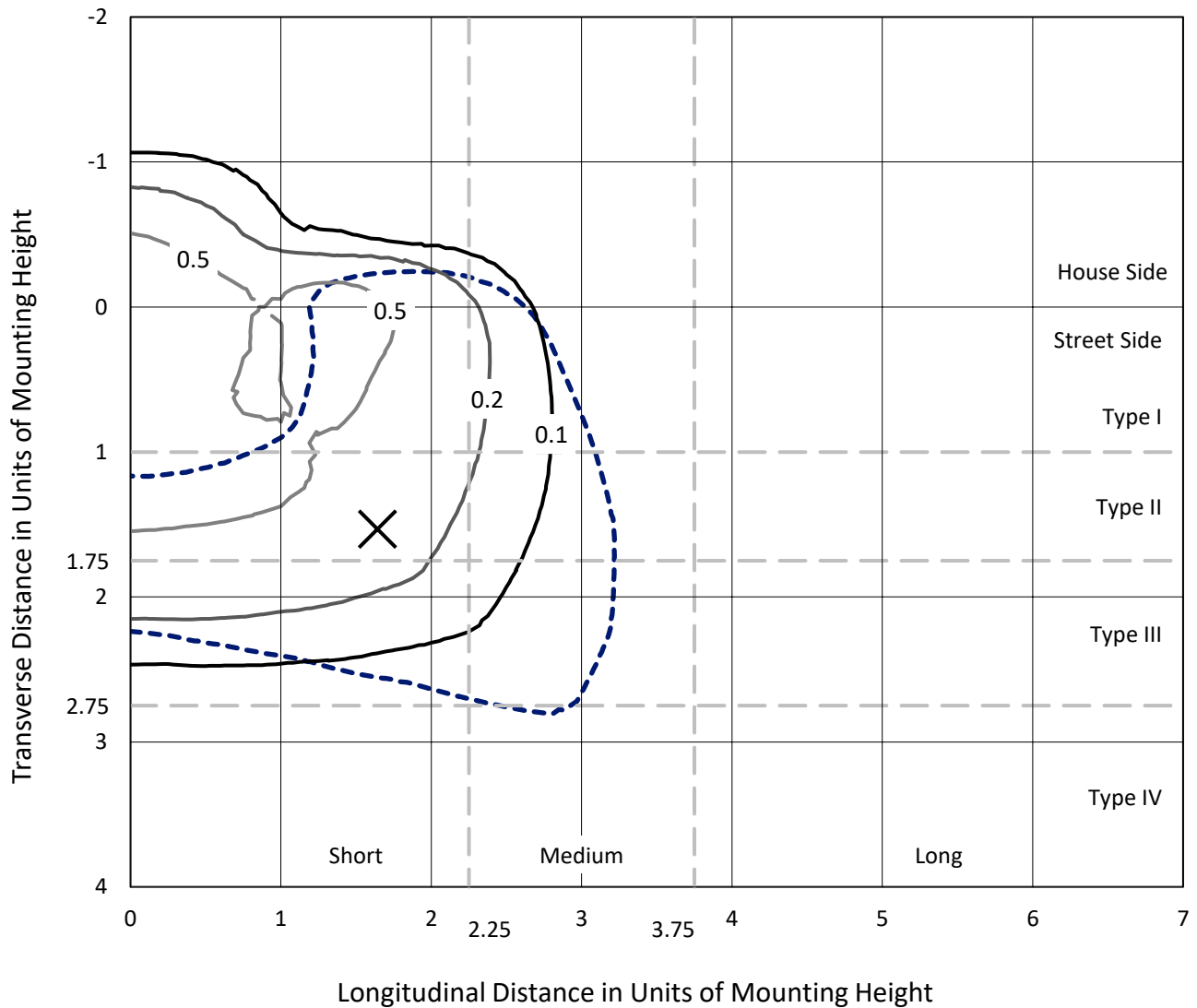
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573056
 CATALOG NUMBER: ARCH-S-PA2-30-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

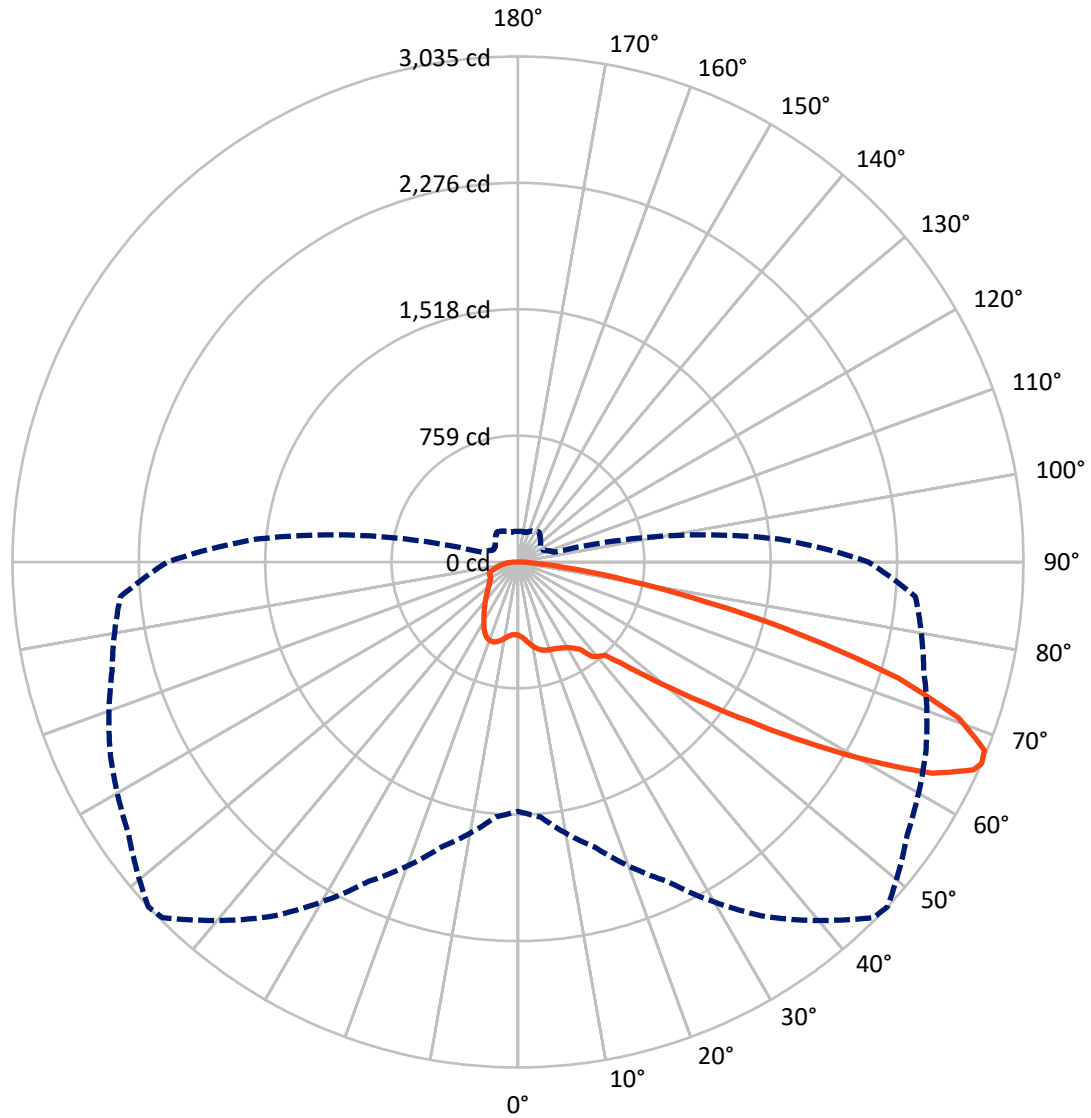
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

REPORT NUMBER: P573056
CATALOG NUMBER: ARCH-S-PA2-30-727-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P573056
 CATALOG NUMBER: ARCH-S-PA2-30-727-U-T4W

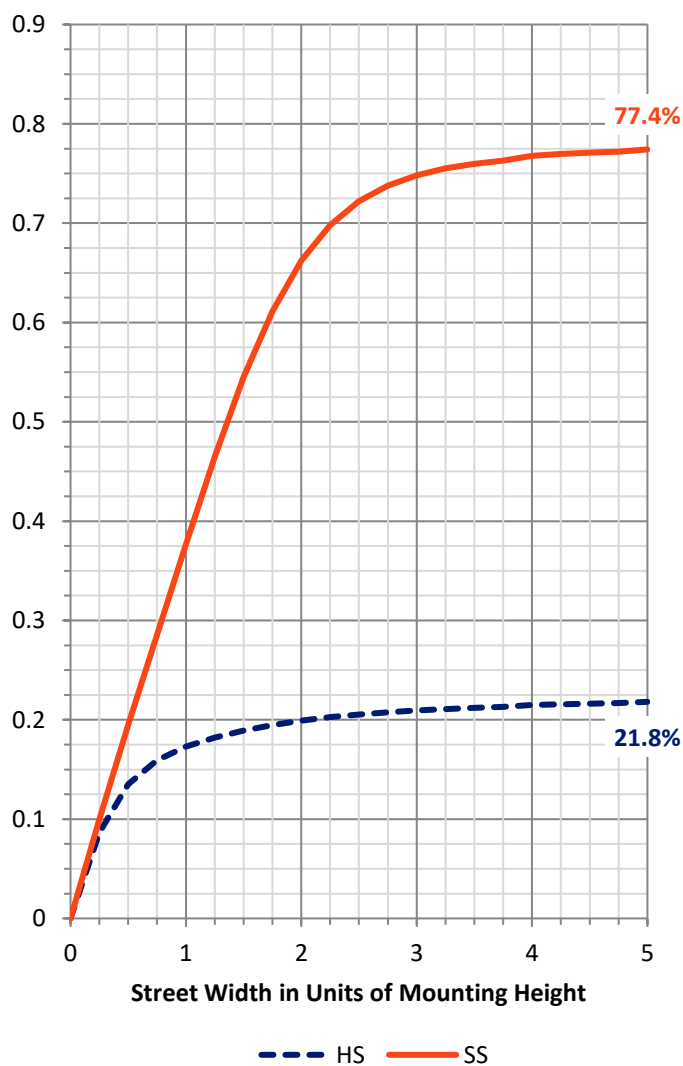
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	972.0	0.0	972.0
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	3400.0	0.0	3400.0
	% Fixture	77.8	0.0	77.8
Total	Lumens	4372.0	0.0	4372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.0
10°-20°	146.7	3.4
20°-30°	244.7	5.6
30°-40°	355.4	8.1
40°-50°	543.5	12.4
50°-60°	1027.4	23.5
60°-70°	1327.6	30.4
70°-80°	596.7	13.6
80°-90°	85.1	1.9
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°	4372.0	100.0
0°-180°	4372.0	100.0

Coefficient of Utilization

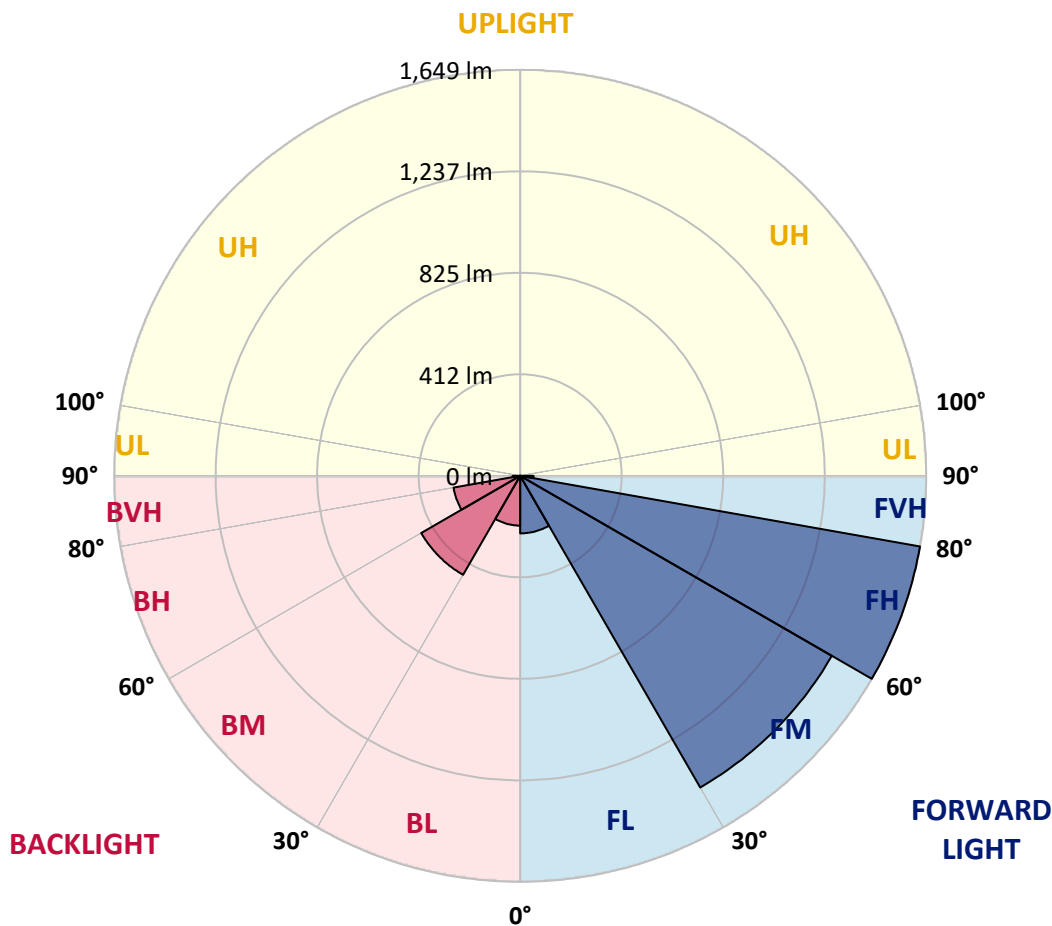


REPORT NUMBER: P573056
 CATALOG NUMBER: ARCH-S-PA2-30-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	233.9	5.4			
FM (30°-60°)	1462.1	33.4			
FH (60°-80°)	1649.3	37.7			G1/1800
FVH (80°-90°)	54.7	1.3			G1/100
BL (0°-30°)	202.3	4.6	B1/500		
BM (30°-60°)	464.3	10.6	B1/1000		
BH (60°-80°)	275.0	6.3	B1/500		G1/500
BVH (80°-90°)	30.4	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 III Short





REPORT NUMBER: P573056

CATALOG NUMBER: ARCH-S-PA2-30-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5
2.5°	464.5	460.9	458.5	457.3	455.0	450.2	450.2	449.0	444.3	441.9	440.7
5°	501.3	498.9	493.0	488.2	481.1	471.6	470.4	463.3	453.8	446.6	441.9
7.5°	536.9	534.6	528.6	521.5	509.6	497.7	494.2	484.7	469.2	458.5	450.2
10°	567.8	564.2	557.1	547.6	534.6	521.5	517.9	507.2	491.8	476.3	462.1
12.5°	588.0	585.6	577.3	565.4	551.2	538.1	535.7	526.2	510.8	494.2	476.3
15°	597.5	596.3	586.8	574.9	560.7	550.0	548.8	540.5	527.4	510.8	490.6
17.5°	595.1	593.9	585.6	573.8	563.1	557.1	557.1	551.2	540.5	526.2	504.9
20°	583.3	583.3	576.1	567.8	561.9	560.7	560.7	559.5	552.4	540.5	519.1
22.5°	571.4	571.4	566.6	560.7	559.5	564.2	565.4	567.8	565.4	555.9	536.9
25°	573.8	572.6	566.6	559.5	560.7	571.4	573.8	579.7	578.5	571.4	554.7
27.5°	599.9	598.7	583.3	569.0	567.8	580.9	583.3	591.6	591.6	585.6	574.9
30°	665.2	667.6	639.1	603.4	585.6	593.9	596.3	605.8	610.6	613.0	604.6
32.5°	765.0	761.4	718.7	660.5	621.3	613.0	616.5	624.8	641.5	646.2	626.0
35°	866.0	868.3	826.8	753.1	678.3	647.4	645.0	656.9	681.8	660.5	624.8
37.5°	959.8	956.3	907.5	828.0	753.1	717.5	718.7	713.9	692.5	649.8	633.1
40°	1062.0	1052.5	1012.1	909.9	814.9	755.5	744.8	704.4	686.6	668.8	666.4
42.5°	1162.9	1164.1	1130.9	1029.9	888.5	782.8	766.2	724.6	736.5	732.9	730.6
45°	1290.0	1290.0	1256.8	1162.9	1005.0	885.0	862.4	812.5	831.5	845.8	874.3
47.5°	1406.5	1399.3	1389.8	1310.2	1157.0	1018.0	1008.5	951.5	1001.4	1045.3	1103.5
50°	1530.0	1520.5	1514.6	1465.9	1356.6	1220.0	1191.5	1132.1	1241.3	1323.3	1431.4
52.5°	1722.4	1705.8	1674.9	1647.6	1604.8	1446.8	1411.2	1367.3	1508.6	1612.0	1832.9
55°	1895.9	1881.6	1851.9	1872.1	1866.2	1722.4	1691.6	1650.0	1803.2	1929.1	2182.2
57.5°	1960.0	1961.2	2001.6	2109.7	2166.7	2083.6	2039.6	1998.0	2127.5	2185.7	2413.8
60°	1989.7	1986.2	2090.7	2266.5	2451.8	2476.7	2420.9	2335.4	2384.1	2387.7	2609.8
62.5°	1925.6	1935.1	2078.8	2331.8	2622.9	2802.2	2793.9	2644.2	2599.1	2549.2	2662.1
65°	1682.1	1695.1	1906.6	2215.4	2650.2	2999.4	3007.7	2833.1	2707.2	2568.2	2513.6
66°	1496.7	1535.9	1771.1	2114.4	2600.3	3019.6	3035.1	2853.3	2702.4	2523.1	2396.0
67.5°	1255.6	1253.2	1515.7	1892.3	2461.3	3001.8	3022.0	2824.8	2638.3	2390.0	2160.8
70°	768.6	792.3	1018.0	1412.4	2037.2	2779.7	2807.0	2624.0	2361.5	2024.2	1597.7
72.5°	394.4	433.6	582.1	918.2	1478.9	2297.4	2390.0	2203.5	1930.3	1464.7	975.3
75°	209.1	206.7	274.4	497.7	944.4	1723.6	1772.3	1652.4	1334.0	873.1	496.5
77.5°	111.7	117.6	143.7	255.4	519.1	1101.2	1162.9	1065.5	760.2	446.6	237.6
80°	76.0	79.6	97.4	143.7	281.5	597.5	654.5	567.8	397.9	211.4	111.7
82.5°	48.7	51.1	66.5	89.1	168.7	289.8	305.3	291.0	194.8	120.0	67.7
85°	29.7	30.9	40.4	57.0	105.7	117.6	122.4	123.5	109.3	78.4	36.8
87.5°	14.3	15.4	22.6	28.5	49.9	42.8	39.2	40.4	60.6	46.3	16.6
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: P573056

CATALOG NUMBER: ARCH-S-PA2-30-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5
2.5°	439.5	438.3	436.0	434.8	436.0	436.0	436.0	437.1	439.5	439.5	440.7
5°	439.5	437.1	434.8	434.8	437.1	439.5	441.9	446.6	449.0	450.2	450.2
7.5°	445.5	443.1	440.7	440.7	444.3	449.0	453.8	459.7	465.7	470.4	470.4
10°	457.3	453.8	451.4	452.6	458.5	464.5	470.4	477.5	483.5	489.4	489.4
12.5°	470.4	466.8	463.3	465.7	474.0	481.1	487.0	490.6	496.5	501.3	501.3
15°	483.5	477.5	476.3	481.1	489.4	494.2	496.5	496.5	498.9	503.7	503.7
17.5°	497.7	491.8	490.6	495.3	502.5	502.5	497.7	494.2	493.0	496.5	497.7
20°	512.0	506.0	506.0	509.6	508.4	500.1	491.8	485.8	481.1	484.7	485.8
22.5°	529.8	523.9	521.5	516.7	506.0	489.4	476.3	469.2	465.7	468.0	470.4
25°	547.6	542.9	536.9	520.3	495.3	469.2	452.6	446.6	447.8	452.6	455.0
27.5°	570.2	567.8	553.6	517.9	476.3	440.7	424.1	422.9	427.6	434.8	438.3
30°	597.5	593.9	569.0	510.8	450.2	407.4	395.6	397.9	405.1	411.0	414.6
32.5°	616.5	614.1	576.1	494.2	418.1	377.7	368.2	368.2	371.8	380.1	383.7
35°	622.5	632.0	580.9	469.2	380.1	351.6	342.1	336.2	336.2	343.3	345.7
37.5°	642.6	664.0	583.3	436.0	349.2	327.9	316.0	305.3	301.7	300.5	300.5
40°	689.0	713.9	582.1	393.2	319.5	304.1	289.8	278.0	268.5	255.4	256.6
42.5°	769.8	788.8	578.5	348.1	293.4	282.7	268.5	254.2	238.8	224.5	223.3
45°	925.4	896.9	569.0	308.9	269.7	263.7	250.6	234.0	215.0	201.9	201.9
47.5°	1171.3	1092.9	563.1	272.0	248.3	247.1	235.2	217.4	198.4	188.9	187.7
50°	1508.6	1363.7	572.6	245.9	229.3	232.8	223.3	206.7	191.3	182.9	181.7
52.5°	1895.9	1654.7	583.3	229.3	215.0	222.1	217.4	201.9	186.5	179.4	178.2
55°	2195.2	1891.1	567.8	213.8	200.8	211.4	211.4	197.2	184.1	177.0	177.0
57.5°	2405.5	1986.2	514.4	199.6	188.9	201.9	205.5	194.8	182.9	180.6	180.6
60°	2495.8	1981.4	420.5	186.5	180.6	192.4	201.9	192.4	185.3	191.3	192.4
62.5°	2447.1	1878.1	326.7	177.0	174.6	190.1	205.5	201.9	193.6	198.4	200.8
65°	2227.3	1696.3	245.9	168.7	167.5	191.3	215.0	207.9	187.7	188.9	190.1
66°	2103.8	1574.0	225.7	166.3	165.1	192.4	219.8	205.5	182.9	185.3	184.1
67.5°	1840.0	1381.5	198.4	161.6	160.4	192.4	225.7	200.8	177.0	180.6	177.0
70°	1349.4	977.6	169.9	155.6	153.2	188.9	224.5	191.3	163.9	161.6	155.6
72.5°	782.8	591.6	150.9	148.5	142.5	166.3	210.3	175.8	149.7	142.5	136.6
75°	384.9	300.5	134.2	140.2	124.7	146.1	190.1	162.7	137.8	128.3	124.7
77.5°	177.0	152.0	121.2	128.3	110.5	125.9	173.4	148.5	122.4	108.1	104.5
80°	96.2	95.0	102.2	106.9	92.7	110.5	153.2	129.5	103.3	87.9	83.2
82.5°	59.4	60.6	74.8	82.0	72.5	96.2	135.4	108.1	78.4	61.8	63.0
85°	30.9	34.4	49.9	54.6	47.5	71.3	102.2	72.5	44.0	32.1	32.1
87.5°	10.7	14.3	24.9	29.7	26.1	42.8	64.1	34.4	9.5	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)