

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: P572738

Luminaire Tested: **ARCH-S-PA2-110-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10191 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

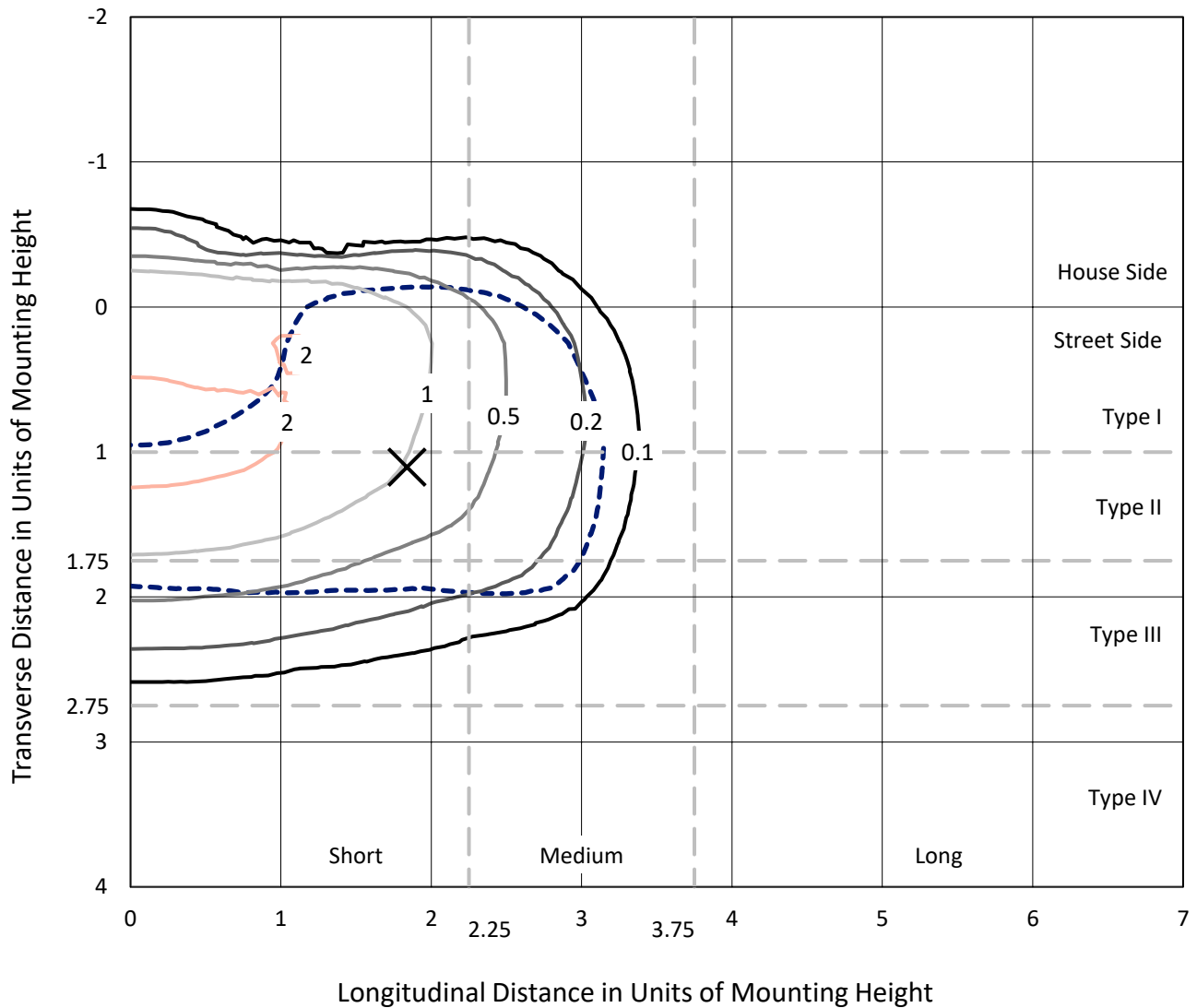
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572738
 CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

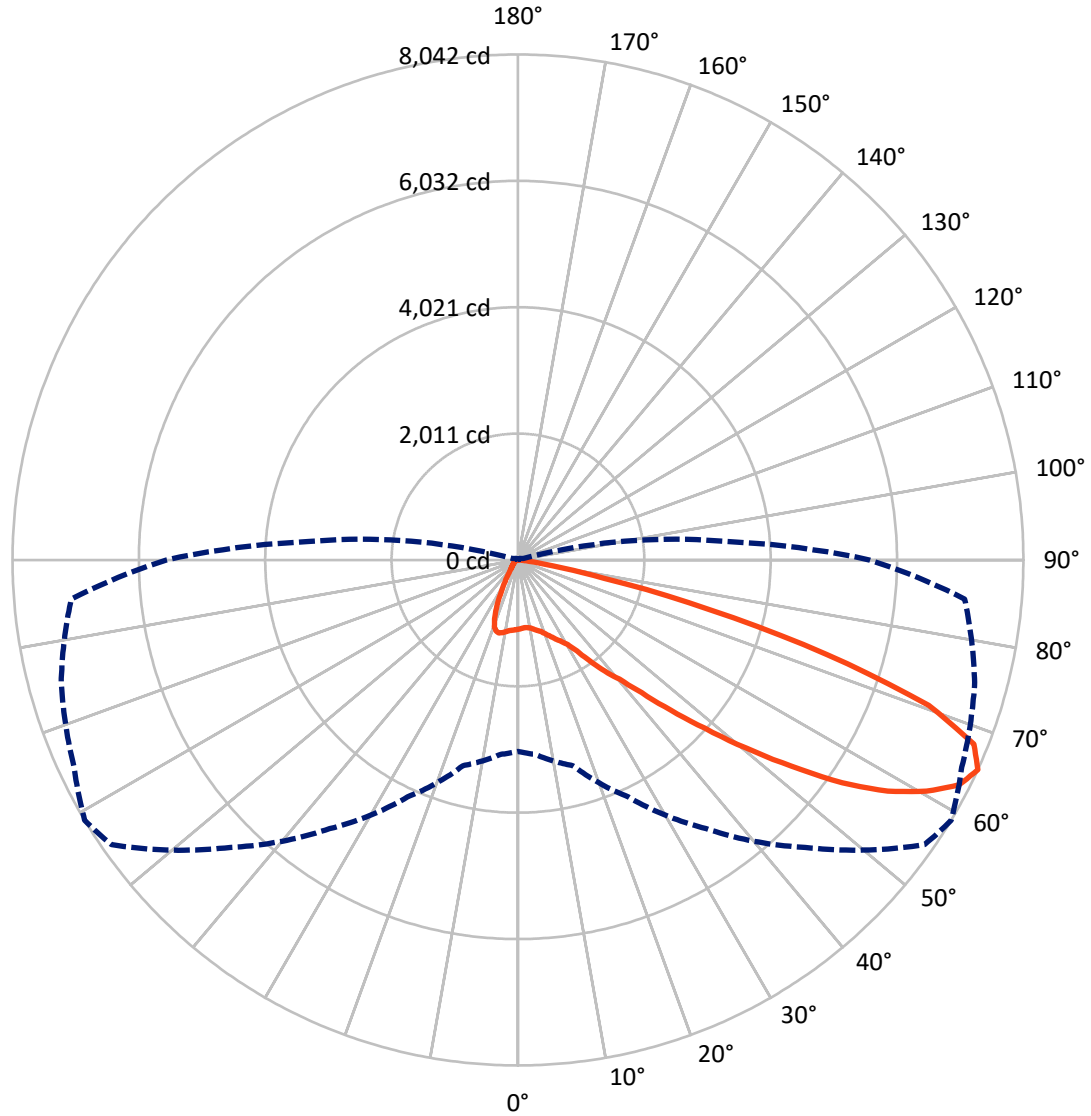
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

REPORT NUMBER: P572738
CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P572738
 CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3-HSS

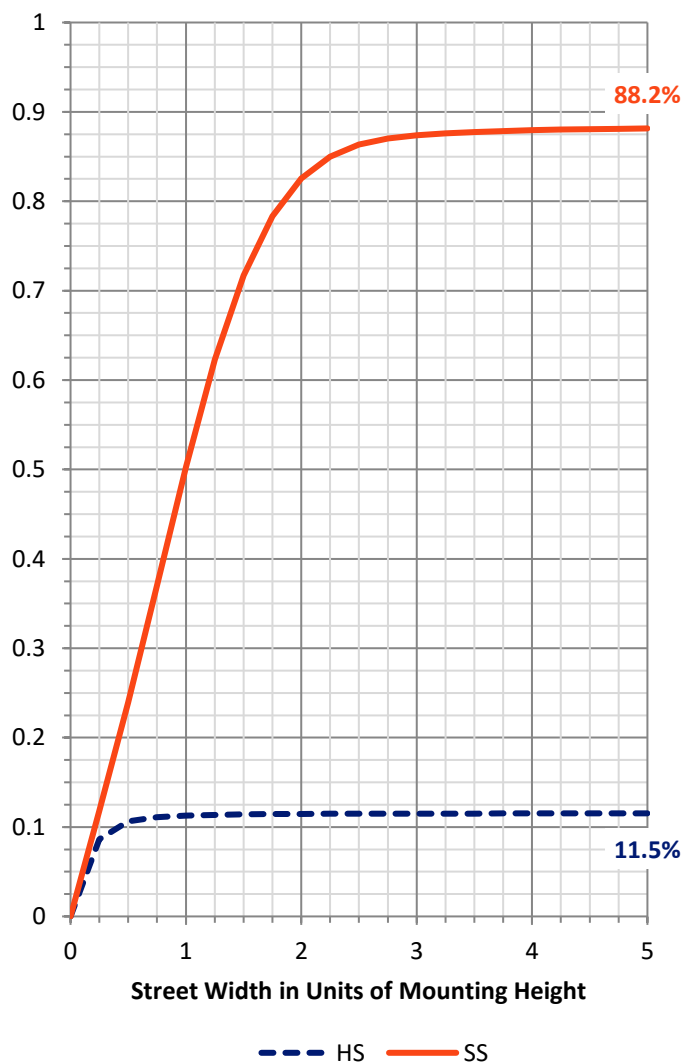
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1188.9	0.0	1188.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	9002.1	0.0	9002.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	10191.0	0.0	10191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	1.0
10°-20°	295.6	2.9
20°-30°	502.1	4.9
30°-40°	889.5	8.7
40°-50°	1677.8	16.5
50°-60°	2838.9	27.9
60°-70°	2951.5	29.0
70°-80°	885.1	8.7
80°-90°	46.4	0.5
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°	10191.0	100.0
0°-180°	10191.0	100.0

Coefficient of Utilization



REPORT NUMBER: P572738

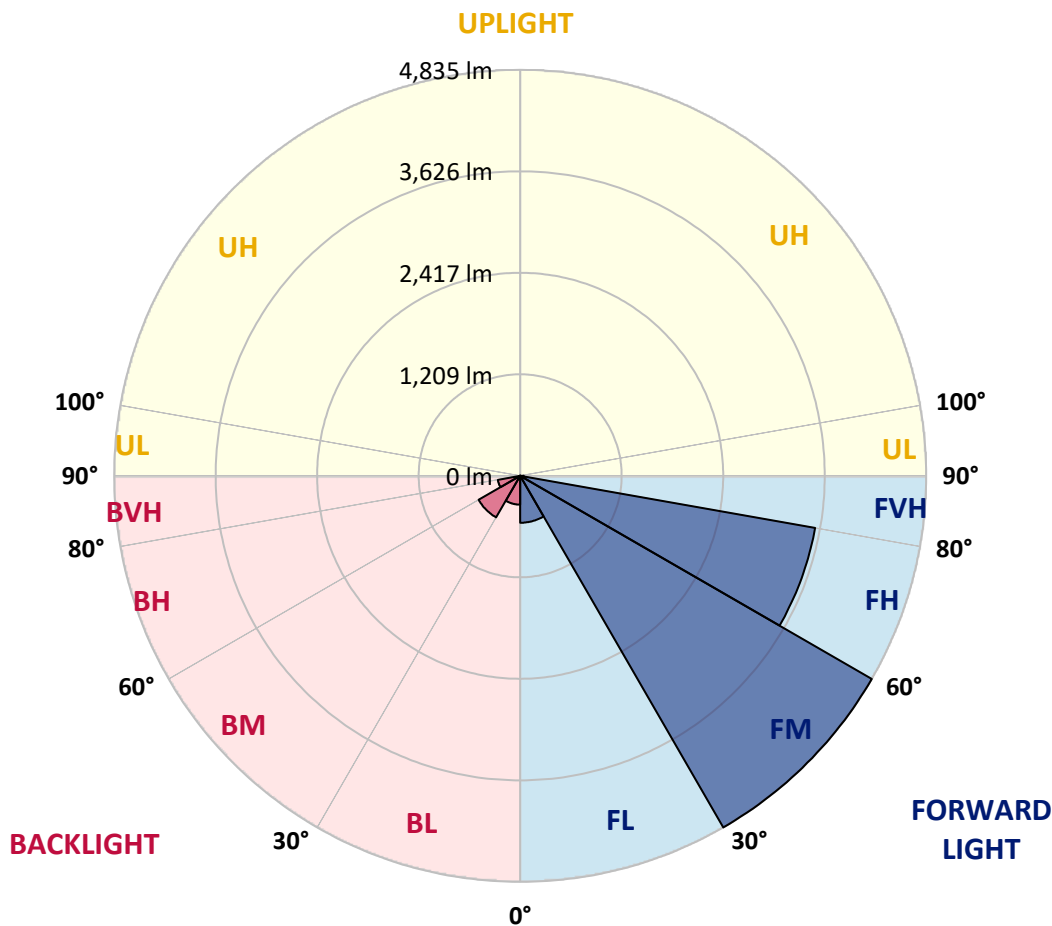
CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.9	5.5			
FM (30°-60°)	4834.6	47.4			
FH (60°-80°)	3566.1	35.0			G2/5000
FVH (80°-90°)	42.5	0.4			G1/100
BL (0°-30°)	342.9	3.4	B1/500		
BM (30°-60°)	571.5	5.6	B1/1000		
BH (60°-80°)	270.5	2.7	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P572738

CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2
2.5°	1071.6	1067.9	1067.9	1075.3	1079.0	1082.7	1090.1	1090.1	1090.1	1097.5	1101.2
5°	1019.7	1019.7	1023.4	1030.8	1045.6	1056.7	1079.0	1082.7	1086.4	1104.9	1112.4
7.5°	986.3	986.3	990.0	1004.8	1023.4	1049.3	1079.0	1086.4	1097.5	1123.5	1142.0
10°	982.6	978.9	986.3	1001.1	1023.4	1056.7	1090.1	1101.2	1123.5	1156.9	1182.8
12.5°	993.7	990.0	997.4	1012.2	1034.5	1067.9	1112.4	1130.9	1156.9	1201.4	1238.4
15°	1001.1	997.4	1004.8	1023.4	1049.3	1090.1	1142.0	1164.3	1197.6	1260.7	1297.8
17.5°	1023.4	1019.7	1023.4	1038.2	1064.2	1108.7	1175.4	1197.6	1253.3	1323.7	1364.5
20°	1123.5	1119.8	1097.5	1090.1	1093.8	1134.6	1219.9	1257.0	1323.7	1412.7	1442.4
22.5°	1331.1	1316.3	1275.5	1208.8	1164.3	1179.1	1275.5	1316.3	1405.3	1505.4	1527.6
25°	1609.2	1598.1	1538.8	1423.8	1297.8	1260.7	1338.5	1394.2	1501.7	1612.9	1605.5
27.5°	1924.4	1902.1	1846.5	1687.1	1516.5	1394.2	1416.4	1464.6	1583.3	1701.9	1664.8
30°	2198.8	2191.4	2128.3	1994.8	1794.6	1612.9	1535.1	1561.0	1668.5	1794.6	1750.1
32.5°	2450.9	2428.7	2376.7	2250.7	2065.3	1879.9	1724.2	1724.2	1813.2	1961.5	1894.7
35°	2729.0	2714.2	2651.1	2525.1	2347.1	2128.3	1987.4	1972.6	2046.7	2213.6	2069.0
37.5°	3014.5	2977.4	2947.8	2818.0	2640.0	2450.9	2280.3	2247.0	2284.1	2406.4	2228.4
40°	3370.5	3370.5	3303.7	3185.1	3018.2	2818.0	2580.7	2495.4	2484.3	2643.7	2506.5
42.5°	3785.7	3774.6	3719.0	3607.8	3448.3	3262.9	2962.6	2884.7	2877.3	3070.1	2907.0
45°	4264.1	4256.6	4189.9	4097.2	3986.0	3782.0	3485.4	3407.5	3363.0	3585.5	3392.7
47.5°	4701.6	4675.6	4653.4	4664.5	4601.5	4371.6	4093.5	4000.8	3997.1	4171.4	3922.9
50°	5001.9	4987.1	5065.0	5139.1	5257.8	5113.2	4783.2	4701.6	4638.6	4868.4	4475.4
52.5°	5198.4	5191.0	5346.8	5558.1	5802.8	5791.7	5498.8	5450.6	5398.7	5461.7	4968.6
55°	5276.3	5276.3	5461.7	5851.0	6281.1	6466.5	6329.3	6262.6	6080.9	5951.1	5509.9
57.5°	5183.6	5172.5	5413.5	5921.5	6577.8	6959.7	7019.0	6941.1	6655.6	6511.0	6110.6
60°	4790.6	4798.0	5083.5	5725.0	6555.5	7159.9	7541.8	7471.4	7185.9	6970.8	6614.8
62.5°	4056.4	4119.4	4419.8	5116.9	6080.9	7000.5	7842.2	7879.2	7571.5	7304.5	7063.5
65°	3047.9	3103.5	3389.0	4160.2	5217.0	6466.5	7897.8	8042.4	7794.0	7523.3	7134.0
67.5°	1853.9	1872.5	2221.0	2803.2	3841.4	5387.5	7508.4	7823.6	7645.6	7200.7	6436.9
70°	863.9	912.1	1082.7	1531.4	2432.4	3967.4	6488.8	6933.7	6733.5	6181.0	4894.4
72.5°	337.4	352.2	459.8	708.2	1290.3	2495.4	4842.5	5139.1	5001.9	4390.1	2918.1
75°	166.9	178.0	222.5	337.4	589.6	1030.8	2958.9	3151.7	2925.5	2206.2	1234.7
77.5°	122.4	122.4	148.3	207.6	322.6	381.9	1245.8	1397.9	1320.0	852.8	337.4
80°	81.6	89.0	103.8	140.9	203.9	185.4	470.9	559.9	467.2	263.3	118.7
82.5°	48.2	51.9	77.9	100.1	137.2	107.5	159.4	178.0	192.8	129.8	55.6
85°	26.0	26.0	51.9	74.2	74.2	48.2	55.6	63.0	74.2	77.9	29.7
87.5°	7.4	7.4	33.4	44.5	29.7	26.0	29.7	29.7	33.4	40.8	14.8
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: P572738

CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2	1101.2
2.5°	1104.9	1104.9	1108.7	1108.7	1112.4	1112.4	1112.4	1112.4	1116.1	1119.8	1119.8
5°	1116.1	1119.8	1119.8	1119.8	1119.8	1112.4	1108.7	1104.9	1104.9	1108.7	1108.7
7.5°	1145.7	1149.4	1145.7	1138.3	1127.2	1112.4	1097.5	1097.5	1093.8	1097.5	1093.8
10°	1190.2	1190.2	1186.5	1168.0	1149.4	1119.8	1090.1	1067.9	1053.0	1049.3	1041.9
12.5°	1245.8	1245.8	1234.7	1201.4	1168.0	1112.4	1034.5	960.3	901.0	875.1	867.6
15°	1301.5	1301.5	1286.6	1238.4	1171.7	1038.2	875.1	719.3	630.3	593.3	571.0
17.5°	1368.2	1360.8	1334.8	1268.1	1130.9	889.9	626.6	467.2	396.7	363.4	363.4
20°	1438.7	1431.2	1383.0	1271.8	1027.1	637.8	407.9	322.6	304.0	296.6	296.6
22.5°	1516.5	1498.0	1423.8	1242.1	808.3	433.8	307.8	285.5	278.1	274.4	274.4
25°	1579.6	1549.9	1453.5	1160.6	578.4	304.0	270.7	263.3	248.4	244.7	237.3
27.5°	1627.8	1583.3	1464.6	986.3	381.9	252.1	241.0	226.2	211.3	196.5	196.5
30°	1690.8	1635.2	1472.0	767.5	259.6	218.8	207.6	189.1	170.6	155.7	155.7
32.5°	1816.9	1735.3	1475.7	537.6	215.1	192.8	170.6	148.3	129.8	122.4	118.7
35°	1954.1	1842.8	1434.9	348.5	189.1	163.1	137.2	118.7	100.1	96.4	96.4
37.5°	2106.1	2002.3	1346.0	237.3	166.9	137.2	111.2	92.7	81.6	77.9	77.9
40°	2361.9	2239.6	1197.6	189.1	144.6	114.9	92.7	77.9	70.4	66.7	66.7
42.5°	2729.0	2517.6	1012.2	163.1	126.1	96.4	74.2	63.0	59.3	55.6	55.6
45°	3151.7	2829.1	797.2	148.3	111.2	81.6	63.0	55.6	51.9	48.2	48.2
47.5°	3637.4	3151.7	630.3	129.8	96.4	70.4	55.6	48.2	44.5	40.8	40.8
50°	4097.2	3403.8	474.6	114.9	85.3	59.3	48.2	44.5	40.8	37.1	37.1
52.5°	4475.4	3574.4	359.7	100.1	74.2	51.9	44.5	40.8	33.4	33.4	33.4
55°	4931.5	3707.9	274.4	89.0	66.7	48.2	40.8	33.4	29.7	26.0	26.0
57.5°	5328.2	3756.1	200.2	77.9	59.3	44.5	37.1	29.7	22.2	18.5	18.5
60°	5595.2	3715.3	144.6	66.7	51.9	37.1	29.7	22.2	14.8	11.1	11.1
62.5°	5784.3	3626.3	111.2	59.3	44.5	33.4	26.0	18.5	11.1	7.4	7.4
65°	5595.2	3351.9	89.0	51.9	37.1	29.7	18.5	14.8	7.4	3.7	3.7
67.5°	4838.8	2810.6	70.4	44.5	33.4	26.0	18.5	11.1	3.7	0.0	0.0
70°	3478.0	2006.0	59.3	40.8	29.7	22.2	14.8	7.4	3.7	0.0	0.0
72.5°	1939.2	1034.5	55.6	37.1	29.7	22.2	14.8	7.4	3.7	0.0	0.0
75°	786.1	356.0	51.9	37.1	29.7	18.5	14.8	7.4	3.7	0.0	0.0
77.5°	229.9	122.4	44.5	33.4	29.7	22.2	14.8	7.4	3.7	0.0	0.0
80°	81.6	55.6	33.4	29.7	22.2	18.5	14.8	11.1	3.7	0.0	0.0
82.5°	37.1	22.2	14.8	11.1	11.1	11.1	11.1	7.4	3.7	0.0	0.0
85°	14.8	11.1	7.4	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0
87.5°	11.1	7.4	3.7	3.7	3.7	3.7	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)