

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: P572709

Luminaire Tested: **ARCH-S-PA2-100-830-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-100-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7592 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

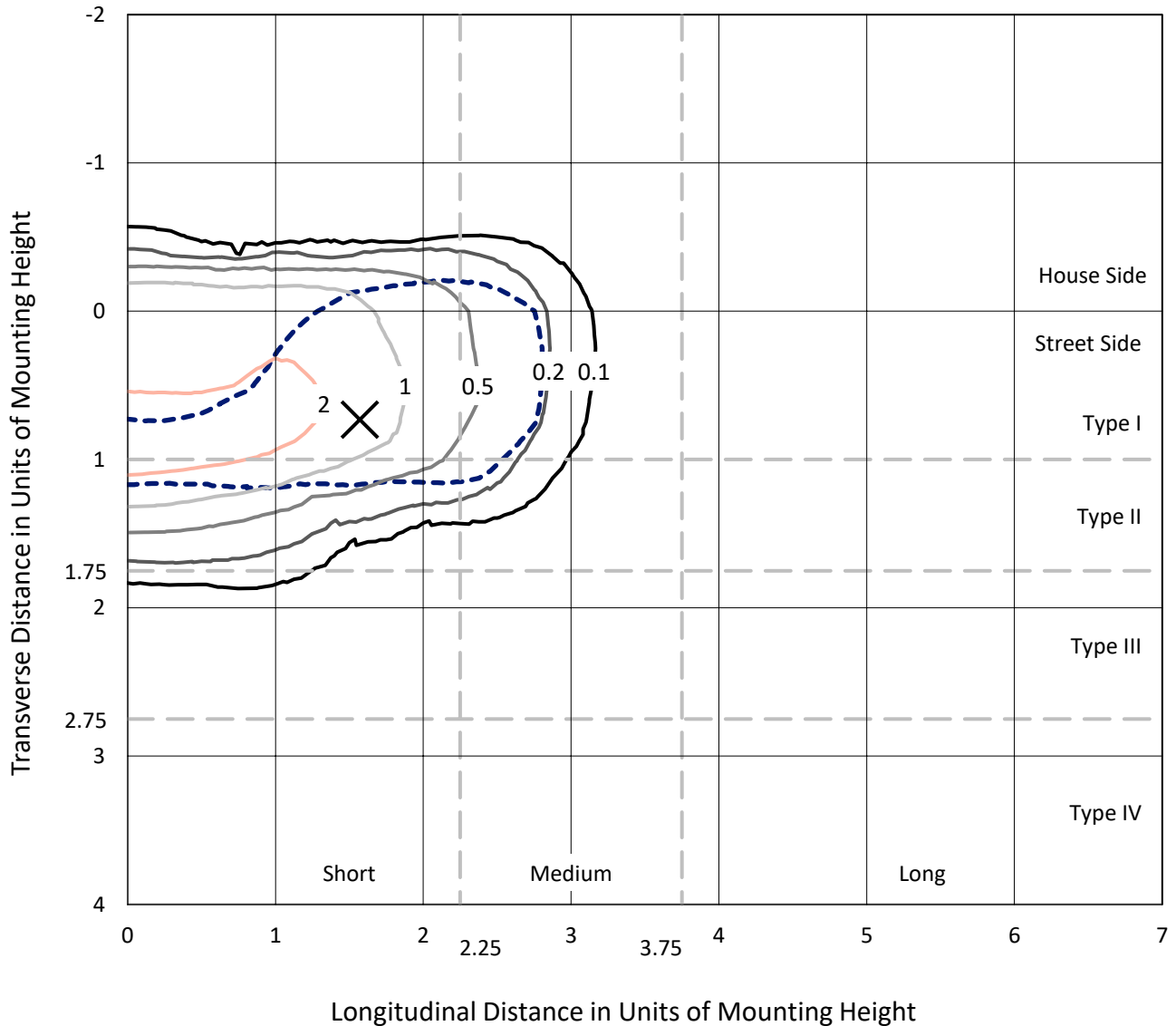
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

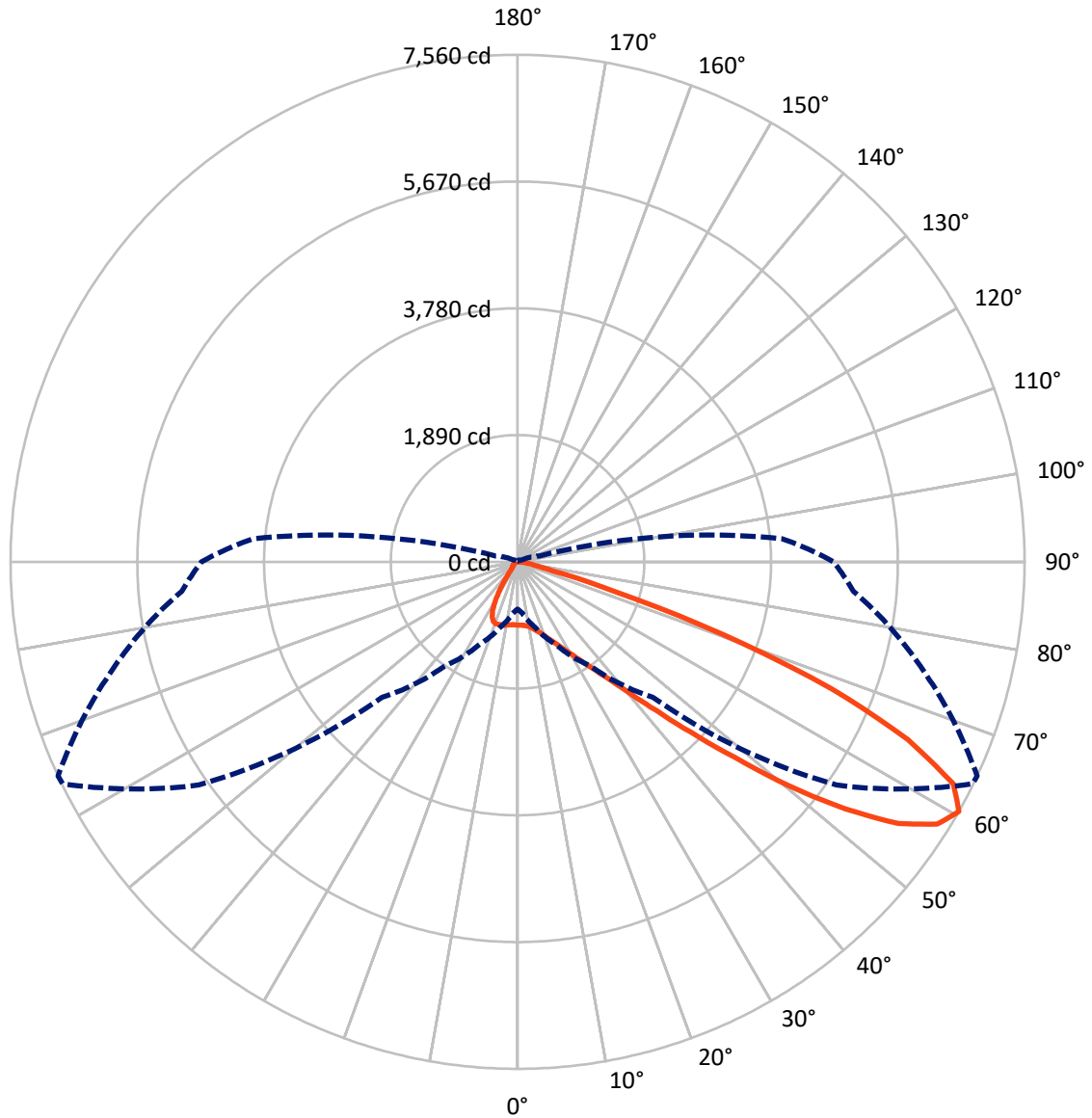
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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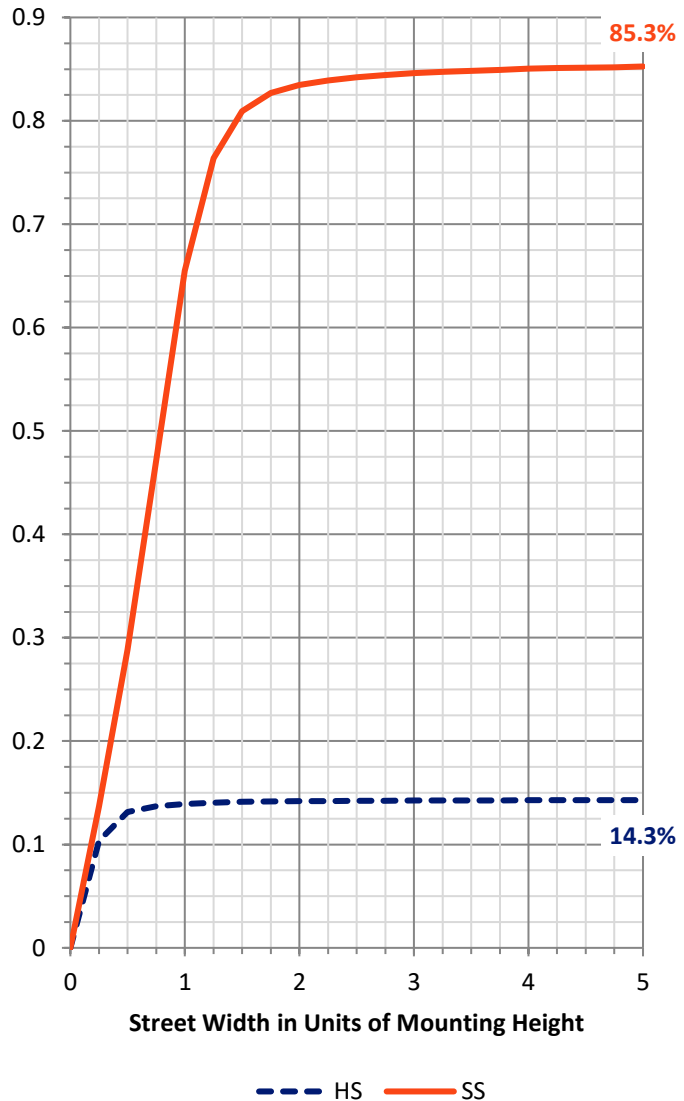
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.1	0.0	1099.1
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	6492.9	0.0	6492.9
	% Fixture	85.5	0.0	85.5
Total	Lumens	7592.0	0.0	7592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	1.2
10°-20°	253.6	3.3
20°-30°	430.8	5.7
30°-40°	888.9	11.7
40°-50°	1787.6	23.5
50°-60°	2187.5	28.8
60°-70°	1547.6	20.4
70°-80°	372.9	4.9
80°-90°	33.7	0.4
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°	7592.0	100.0
0°-180°	7592.0	100.0

Coefficient of Utilization



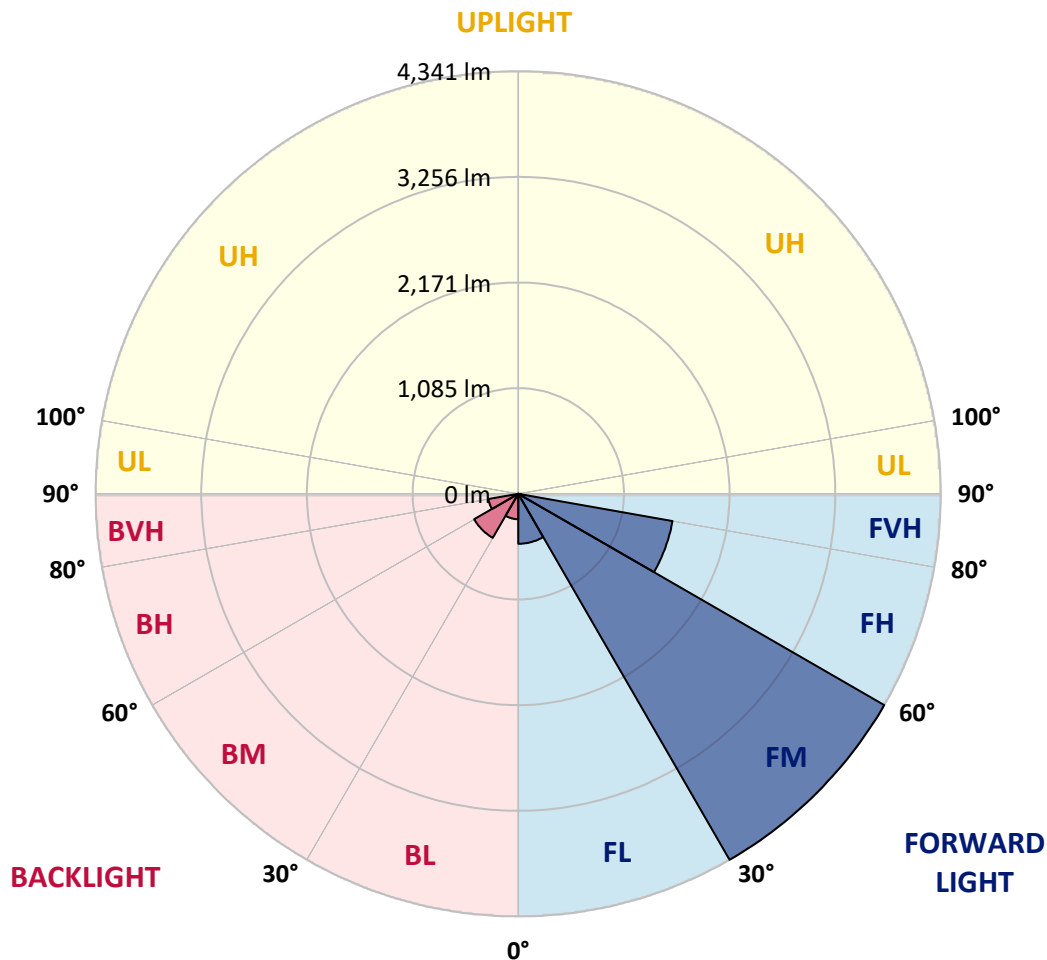
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.2	6.8			
FM (30°-60°)	4341.4	57.2			
FH (60°-80°)	1608.9	21.2			G1/1800
FVH (80°-90°)	29.3	0.4			G1/100
BL (0°-30°)	260.6	3.4	B1/500		
BM (30°-60°)	522.6	6.9	B1/1000		
BH (60°-80°)	311.6	4.1	B1/500		G1/500
BVH (80°-90°)	4.4	0.1			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	945.8	945.8	945.8	945.8	945.8	945.8	945.8	945.8	945.8	945.8	945.8
2.5°	948.8	945.8	945.8	945.8	948.8	948.8	951.8	945.8	945.8	945.8	945.8
5°	942.8	939.8	939.8	942.8	945.8	945.8	951.8	951.8	951.8	954.8	954.8
7.5°	954.8	948.8	948.8	951.8	954.8	954.8	960.7	963.7	963.7	969.7	972.7
10°	969.7	966.7	966.7	972.7	978.7	978.7	987.7	987.7	987.7	993.7	996.7
12.5°	990.7	987.7	987.7	996.7	1005.6	1011.6	1017.6	1020.6	1023.6	1023.6	1023.6
15°	1020.6	1017.6	1017.6	1026.6	1038.6	1053.5	1062.5	1062.5	1068.5	1065.5	1053.5
17.5°	1062.5	1059.5	1062.5	1068.5	1083.4	1098.4	1116.4	1119.4	1116.4	1110.4	1092.4
20°	1131.3	1122.4	1128.3	1143.3	1143.3	1152.3	1176.2	1185.2	1188.2	1170.2	1137.3
22.5°	1203.2	1203.2	1209.2	1227.1	1215.1	1227.1	1248.1	1263.0	1269.0	1254.0	1200.2
25°	1337.9	1343.8	1334.9	1328.9	1298.9	1304.9	1331.9	1361.8	1361.8	1349.8	1272.0
27.5°	1634.2	1628.2	1565.3	1478.5	1400.7	1406.7	1433.6	1472.5	1475.5	1448.6	1343.8
30°	2059.2	2065.1	1942.4	1744.9	1574.3	1529.4	1559.3	1604.2	1610.2	1565.3	1436.6
32.5°	2723.6	2672.7	2445.2	2181.9	1861.6	1700.0	1712.0	1759.9	1777.8	1738.9	1583.3
35°	3582.6	3462.8	3121.7	2795.4	2331.5	2005.3	1912.5	1963.4	1972.4	1951.4	1765.8
37.5°	4094.4	3998.6	3777.1	3480.8	2936.1	2412.3	2175.9	2226.8	2217.8	2175.9	1948.4
40°	4411.6	4357.7	4238.0	4100.3	3753.2	3052.8	2609.9	2568.0	2570.9	2511.1	2244.7
42.5°	4591.2	4543.3	4498.4	4534.3	4432.6	4214.1	3238.4	3046.8	3028.9	2915.1	2588.9
45°	4600.2	4528.3	4582.2	4791.7	4953.3	5243.7	4058.4	3615.5	3624.5	3435.9	3016.9
47.5°	4256.0	4199.1	4354.7	4764.8	5300.5	5917.1	5013.2	4393.7	4351.8	3980.6	3450.9
50°	3576.6	3573.6	3780.1	4360.7	5300.5	6264.3	6036.8	5306.5	5261.6	4549.3	3845.9
52.5°	2831.3	2888.2	3028.9	3579.6	4812.7	6231.3	6791.0	6249.3	6123.6	5055.1	4175.2
55°	2202.8	2181.9	2352.5	2732.6	3816.0	5662.7	7036.4	6991.5	6886.8	5504.0	4465.5
57.5°	1352.8	1430.6	1661.1	1999.3	2777.5	4453.5	6683.3	7443.5	7380.6	5923.1	4767.8
60°	703.3	763.2	1011.6	1364.8	1897.5	2855.3	5800.3	7548.2	7560.2	6261.3	5025.2
62.5°	443.0	440.0	553.7	957.7	1221.1	1604.2	4504.4	7177.1	7290.8	6521.6	5270.6
65°	332.2	335.2	380.1	634.5	829.0	838.0	2672.7	6207.4	6395.9	6590.5	5354.4
67.5°	308.3	311.3	332.2	416.0	622.5	559.7	1176.2	4785.7	5049.1	5956.0	5031.2
70°	275.4	278.3	311.3	344.2	469.9	410.0	529.8	2882.2	3247.4	4321.8	4025.5
72.5°	215.5	221.5	260.4	326.2	350.2	311.3	368.1	1275.0	1487.5	2376.4	2304.6
75°	158.6	161.6	197.5	251.4	308.3	221.5	284.3	505.8	553.7	891.9	760.2
77.5°	110.7	110.7	137.7	188.6	257.4	155.6	203.5	272.4	278.3	332.2	218.5
80°	68.8	71.8	86.8	128.7	158.6	149.6	125.7	182.6	182.6	173.6	89.8
82.5°	38.9	41.9	59.9	86.8	107.7	101.8	80.8	104.8	107.7	110.7	50.9
85°	18.0	21.0	35.9	53.9	62.9	47.9	47.9	53.9	53.9	71.8	29.9
87.5°	3.0	3.0	18.0	23.9	21.0	23.9	23.9	29.9	29.9	35.9	15.0
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°	945.8	945.8	945.8	945.8	945.8	945.8	945.8	945.8	945.8	945.8	945.8
2.5°	942.8	942.8	942.8	939.8	939.8	936.8	930.8	930.8	930.8	930.8	933.8
5°	954.8	951.8	948.8	939.8	933.8	921.8	909.9	906.9	897.9	897.9	900.9
7.5°	969.7	969.7	960.7	945.8	930.8	909.9	888.9	873.9	859.0	856.0	853.0
10°	996.7	990.7	981.7	954.8	930.8	897.9	865.0	826.1	796.1	781.2	775.2
12.5°	1017.6	1014.6	996.7	966.7	927.8	876.9	802.1	712.3	640.5	601.6	601.6
15°	1047.5	1041.5	1014.6	972.7	918.8	799.1	646.5	508.8	431.0	389.1	383.1
17.5°	1077.5	1065.5	1032.6	975.7	879.9	658.4	451.9	326.2	272.4	251.4	245.4
20°	1113.4	1092.4	1044.5	978.7	784.2	478.9	293.3	218.5	197.5	188.6	191.5
22.5°	1161.3	1125.4	1056.5	960.7	640.5	311.3	206.5	176.6	164.6	155.6	155.6
25°	1221.1	1170.2	1077.5	909.9	463.9	209.5	164.6	146.7	134.7	128.7	125.7
27.5°	1275.0	1212.1	1098.4	820.1	296.3	164.6	137.7	122.7	110.7	107.7	104.8
30°	1346.8	1260.0	1119.4	676.4	194.5	134.7	116.7	101.8	92.8	89.8	89.8
32.5°	1469.5	1352.8	1158.3	514.8	146.7	116.7	98.8	86.8	80.8	77.8	77.8
35°	1613.2	1466.5	1191.2	359.2	125.7	98.8	83.8	74.8	71.8	68.8	68.8
37.5°	1762.8	1601.2	1197.2	227.5	110.7	86.8	74.8	68.8	62.9	62.9	62.9
40°	2032.2	1837.7	1170.2	152.6	95.8	77.8	65.8	62.9	56.9	56.9	56.9
42.5°	2346.5	2125.0	1101.4	122.7	86.8	68.8	62.9	56.9	50.9	50.9	47.9
45°	2753.5	2451.2	984.7	107.7	77.8	62.9	56.9	50.9	47.9	44.9	44.9
47.5°	3136.6	2822.4	873.9	95.8	71.8	59.9	50.9	44.9	41.9	41.9	41.9
50°	3501.8	3106.7	745.2	89.8	65.8	56.9	47.9	41.9	38.9	35.9	35.9
52.5°	3765.1	3331.2	625.5	80.8	59.9	50.9	44.9	38.9	32.9	29.9	29.9
55°	4058.4	3558.6	517.8	71.8	56.9	47.9	38.9	32.9	26.9	23.9	23.9
57.5°	4387.7	3780.1	419.0	65.8	53.9	41.9	32.9	26.9	21.0	18.0	18.0
60°	4713.9	3956.7	335.2	59.9	47.9	38.9	29.9	21.0	15.0	12.0	12.0
62.5°	5040.1	4076.4	257.4	53.9	44.9	32.9	23.9	15.0	9.0	6.0	6.0
65°	5174.8	4043.5	191.5	47.9	38.9	26.9	21.0	15.0	9.0	6.0	6.0
67.5°	4800.7	3636.4	134.7	47.9	35.9	26.9	18.0	12.0	6.0	3.0	3.0
70°	3747.2	2807.4	98.8	47.9	35.9	26.9	18.0	12.0	6.0	3.0	3.0
72.5°	2125.0	1562.3	74.8	41.9	32.9	23.9	18.0	12.0	6.0	3.0	3.0
75°	757.2	502.8	56.9	38.9	29.9	21.0	18.0	12.0	6.0	3.0	3.0
77.5°	182.6	128.7	44.9	32.9	26.9	21.0	15.0	12.0	9.0	3.0	3.0
80°	74.8	53.9	35.9	26.9	21.0	18.0	15.0	12.0	6.0	3.0	3.0
82.5°	32.9	26.9	15.0	15.0	12.0	12.0	12.0	12.0	6.0	3.0	3.0
85°	15.0	12.0	6.0	6.0	3.0	3.0	3.0	6.0	6.0	3.0	3.0
87.5°	9.0	6.0	6.0	6.0	3.0	3.0	3.0	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)