

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: P572781

Luminaire Tested: **ARCH-S-PA2-110-827-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572781
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-PA2-110-827-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1105mA 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: 7594 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

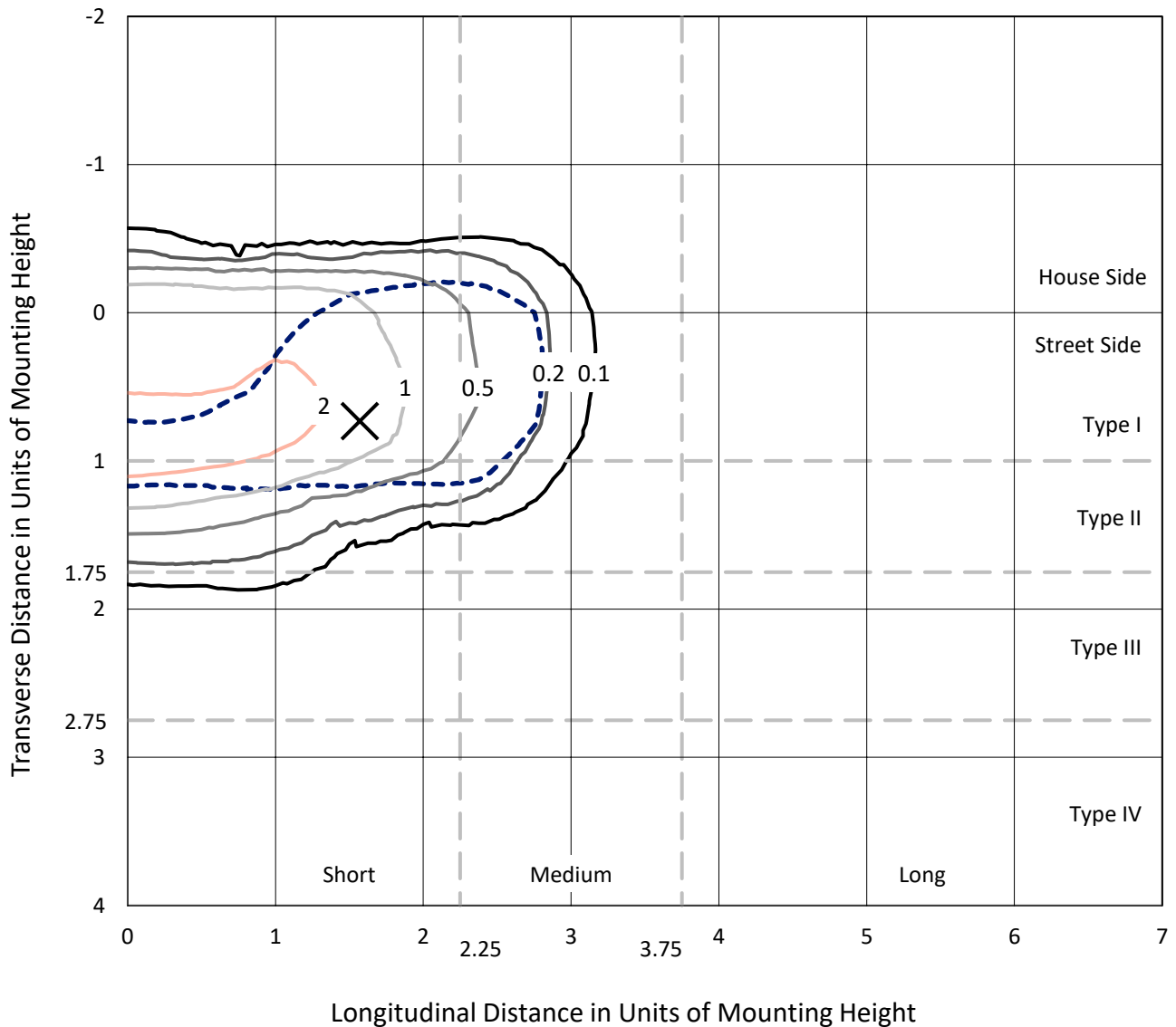
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

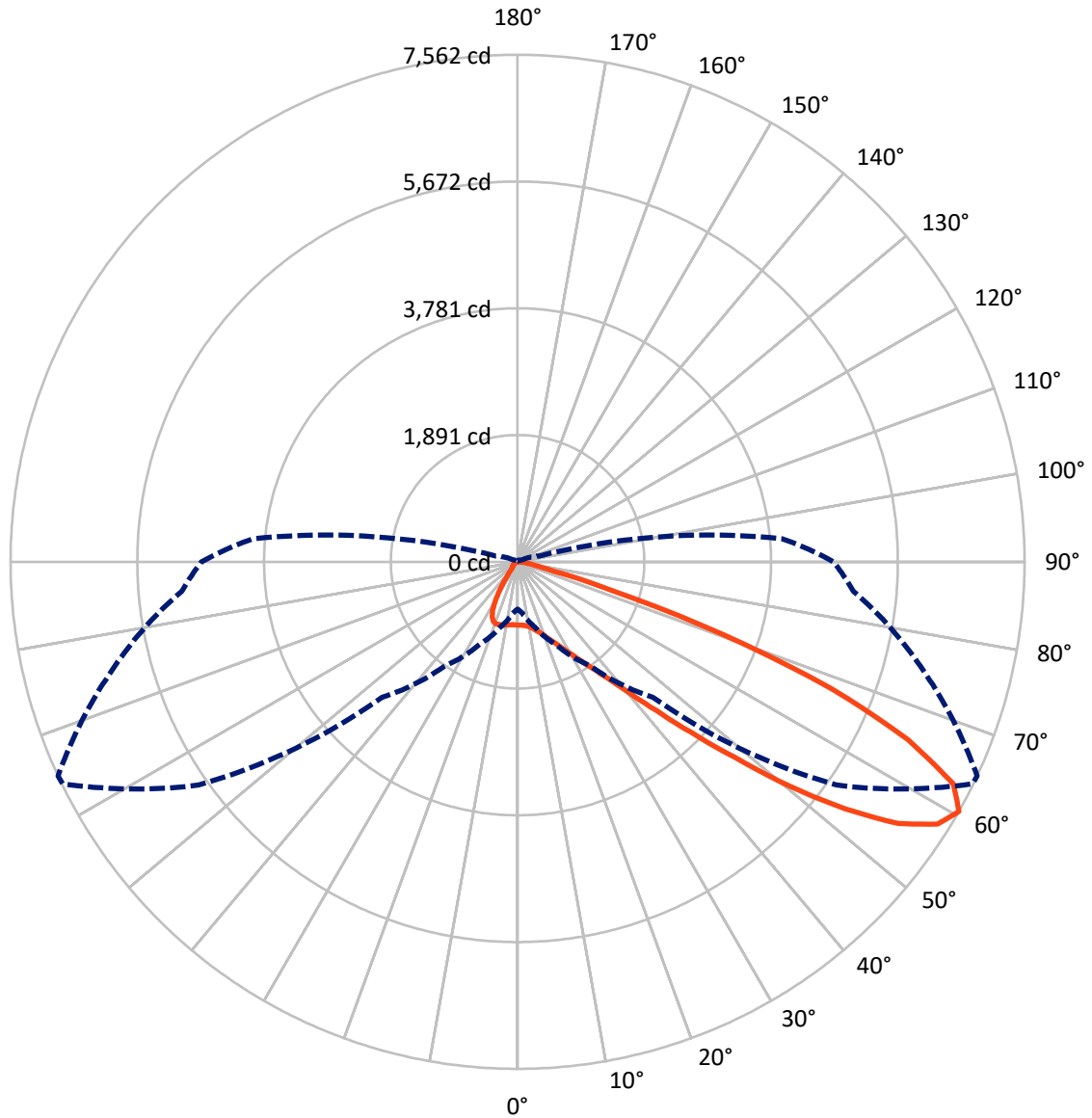
✕ Max cd
 - - - 1/2 Max cd



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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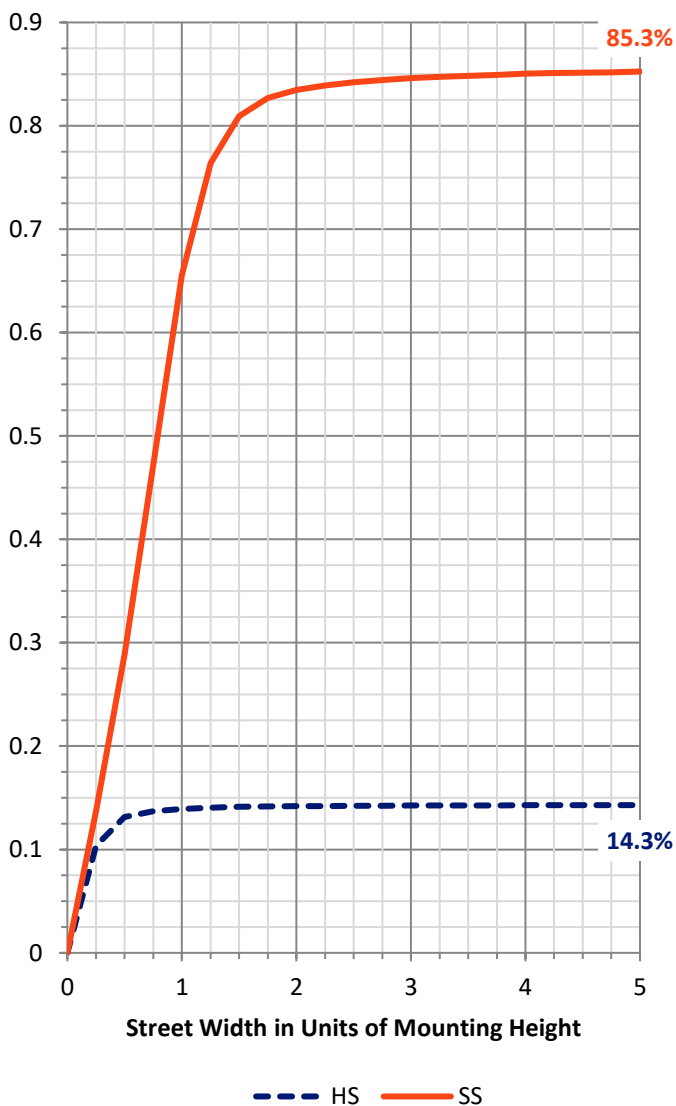
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.4	0.0	1099.4
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	6494.6	0.0	6494.6
	% Fixture	85.5	0.0	85.5
Total	Lumens	7594.0	0.0	7594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	1.2
10°-20°	253.7	3.3
20°-30°	430.9	5.7
30°-40°	889.1	11.7
40°-50°	1788.1	23.5
50°-60°	2188.1	28.8
60°-70°	1548.0	20.4
70°-80°	373.0	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°	7594.0	100.0
0°-180°	7594.0	100.0

Coefficient of Utilization



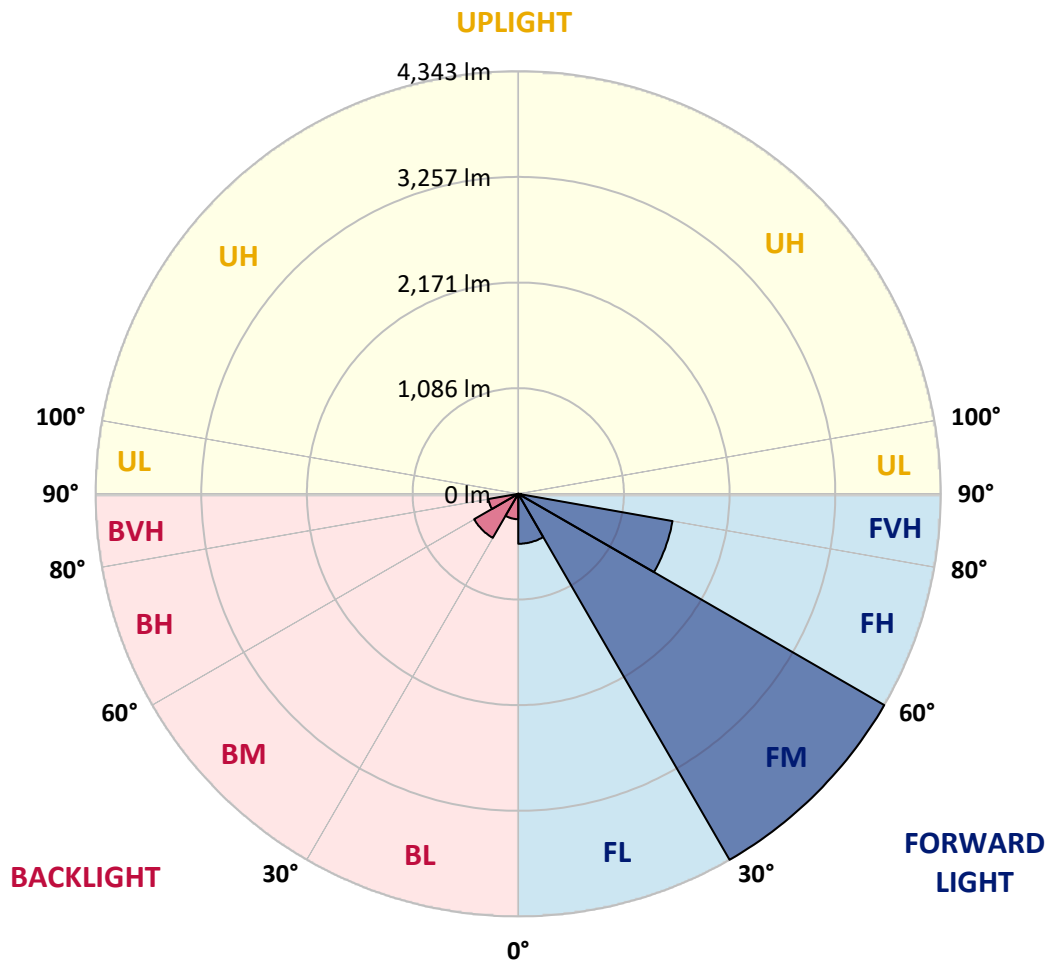
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.3	6.8			
FM (30°-60°)	4342.6	57.2			
FH (60°-80°)	1609.4	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°)	522.7	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°	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0
2.5°	949.0	946.0	946.0	946.0	949.0	949.0	952.0	946.0	946.0	946.0	946.0
5°	943.0	940.0	940.0	943.0	946.0	946.0	952.0	952.0	952.0	955.0	955.0
7.5°	955.0	949.0	949.0	952.0	955.0	955.0	961.0	964.0	964.0	970.0	973.0
10°	970.0	967.0	967.0	973.0	979.0	979.0	987.9	987.9	987.9	993.9	996.9
12.5°	990.9	987.9	987.9	996.9	1005.9	1011.9	1017.9	1020.9	1023.9	1023.9	1023.9
15°	1020.9	1017.9	1017.9	1026.9	1038.8	1053.8	1062.8	1062.8	1068.8	1065.8	1053.8
17.5°	1062.8	1059.8	1062.8	1068.8	1083.7	1098.7	1116.7	1119.7	1116.7	1110.7	1092.7
20°	1131.6	1122.7	1128.6	1143.6	1143.6	1152.6	1176.5	1185.5	1188.5	1170.6	1137.6
22.5°	1203.5	1203.5	1209.5	1227.4	1215.5	1227.4	1248.4	1263.4	1269.3	1254.4	1200.5
25°	1338.2	1344.2	1335.2	1329.2	1299.3	1305.3	1332.2	1362.2	1362.2	1350.2	1272.3
27.5°	1634.6	1628.6	1565.7	1478.9	1401.1	1407.1	1434.0	1472.9	1475.9	1449.0	1344.2
30°	2059.7	2065.7	1942.9	1745.4	1574.7	1529.8	1559.7	1604.6	1610.6	1565.7	1437.0
32.5°	2724.3	2673.4	2445.9	2182.4	1862.1	1700.4	1712.4	1760.3	1778.3	1739.4	1583.7
35°	3583.5	3463.8	3122.5	2796.2	2332.1	2005.8	1913.0	1963.9	1972.9	1951.9	1766.3
37.5°	4095.4	3999.6	3778.1	3481.7	2936.9	2413.0	2176.5	2227.3	2218.4	2176.5	1948.9
40°	4412.8	4358.9	4239.1	4101.4	3754.2	3053.6	2610.5	2568.6	2571.6	2511.8	2245.3
42.5°	4592.4	4544.5	4499.6	4535.5	4433.7	4215.2	3239.2	3047.6	3029.7	2915.9	2589.6
45°	4601.4	4529.5	4583.4	4793.0	4954.6	5245.0	4059.5	3616.4	3625.4	3436.8	3017.7
47.5°	4257.1	4200.2	4355.9	4766.0	5301.9	5918.6	5014.5	4394.8	4352.9	3981.7	3451.8
50°	3577.5	3574.5	3781.1	4361.9	5301.9	6265.9	6038.4	5307.9	5263.0	4550.5	3847.0
52.5°	2832.1	2889.0	3029.7	3580.5	4813.9	6233.0	6792.8	6250.9	6125.2	5056.4	4176.3
55°	2203.4	2182.4	2353.1	2733.3	3817.0	5664.2	7038.3	6993.4	6888.6	5505.5	4466.7
57.5°	1353.2	1431.0	1661.5	1999.8	2778.2	4454.7	6685.0	7445.4	7382.6	5924.6	4769.0
60°	703.5	763.4	1011.9	1365.1	1898.0	2856.0	5801.9	7550.2	7562.2	6262.9	5026.5
62.5°	443.1	440.1	553.8	958.0	1221.4	1604.6	4505.6	7179.0	7292.8	6523.4	5272.0
65°	332.3	335.3	380.2	634.7	829.3	838.2	2673.4	6209.0	6397.6	6592.2	5355.8
67.5°	308.4	311.3	332.3	416.1	622.7	559.8	1176.5	4787.0	5050.4	5957.5	5032.5
70°	275.4	278.4	311.3	344.3	470.0	410.1	529.9	2883.0	3248.2	4323.0	4026.6
72.5°	215.5	221.5	260.5	326.3	350.3	311.3	368.2	1275.3	1487.9	2377.0	2305.2
75°	158.7	161.7	197.6	251.5	308.4	221.5	284.4	505.9	553.8	892.1	760.4
77.5°	110.8	110.8	137.7	188.6	257.5	155.7	203.6	272.4	278.4	332.3	218.5
80°	68.9	71.8	86.8	128.7	158.7	149.7	125.7	182.6	182.6	173.6	89.8
82.5°	38.9	41.9	59.9	86.8	107.8	101.8	80.8	104.8	107.8	110.8	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°	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0
2.5°	943.0	943.0	943.0	940.0	940.0	937.0	931.1	931.1	931.1	931.1	934.0
5°	955.0	952.0	949.0	940.0	934.0	922.1	910.1	907.1	898.1	898.1	901.1
7.5°	970.0	970.0	961.0	946.0	931.1	910.1	889.1	874.2	859.2	856.2	853.2
10°	996.9	990.9	981.9	955.0	931.1	898.1	865.2	826.3	796.3	781.4	775.4
12.5°	1017.9	1014.9	996.9	967.0	928.1	877.2	802.3	712.5	640.7	601.7	601.7
15°	1047.8	1041.8	1014.9	973.0	919.1	799.3	646.6	508.9	431.1	389.2	383.2
17.5°	1077.7	1065.8	1032.8	976.0	880.2	658.6	452.1	326.3	272.4	251.5	245.5
20°	1113.7	1092.7	1044.8	979.0	784.4	479.0	293.4	218.5	197.6	188.6	191.6
22.5°	1161.6	1125.6	1056.8	961.0	640.7	311.3	206.6	176.6	164.7	155.7	155.7
25°	1221.4	1170.6	1077.7	910.1	464.0	209.6	164.7	146.7	134.7	128.7	125.7
27.5°	1275.3	1212.5	1098.7	820.3	296.4	164.7	137.7	122.7	110.8	107.8	104.8
30°	1347.2	1260.4	1119.7	676.6	194.6	134.7	116.8	101.8	92.8	89.8	89.8
32.5°	1469.9	1353.2	1158.6	514.9	146.7	116.8	98.8	86.8	80.8	77.8	77.8
35°	1613.6	1466.9	1191.5	359.2	125.7	98.8	83.8	74.8	71.8	68.9	68.9
37.5°	1763.3	1601.7	1197.5	227.5	110.8	86.8	74.8	68.9	62.9	62.9	62.9
40°	2032.8	1838.2	1170.6	152.7	95.8	77.8	65.9	62.9	56.9	56.9	56.9
42.5°	2347.1	2125.6	1101.7	122.7	86.8	68.9	62.9	56.9	50.9	50.9	47.9
45°	2754.2	2451.9	984.9	107.8	77.8	62.9	56.9	50.9	47.9	44.9	44.9
47.5°	3137.4	2823.1	874.2	95.8	71.8	59.9	50.9	44.9	41.9	41.9	41.9
50°	3502.7	3107.5	745.4	89.8	65.9	56.9	47.9	41.9	38.9	35.9	35.9
52.5°	3766.1	3332.0	625.7	80.8	59.9	50.9	44.9	38.9	32.9	29.9	29.9
55°	4059.5	3559.6	517.9	71.8	56.9	47.9	38.9	32.9	26.9	23.9	23.9
57.5°	4388.8	3781.1	419.1	65.9	53.9	41.9	32.9	26.9	21.0	18.0	18.0
60°	4715.1	3957.7	335.3	59.9	47.9	38.9	29.9	21.0	15.0	12.0	12.0
62.5°	5041.5	4077.5	257.5	53.9	44.9	32.9	23.9	15.0	9.0	6.0	6.0
65°	5176.2	4044.5	191.6	47.9	38.9	26.9	21.0	15.0	9.0	6.0	6.0
67.5°	4802.0	3637.4	134.7	47.9	35.9	26.9	18.0	12.0	6.0	3.0	3.0
70°	3748.2	2808.1	98.8	47.9	35.9	26.9	18.0	12.0	6.0	3.0	3.0
72.5°	2125.6	1562.7	74.8	41.9	32.9	23.9	18.0	12.0	6.0	3.0	3.0
75°	757.4	502.9	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)