

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: P572682

Luminaire Tested: **ARCH-S-PA2-100-750-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572682
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-PA2-100-750-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 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: 9554 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

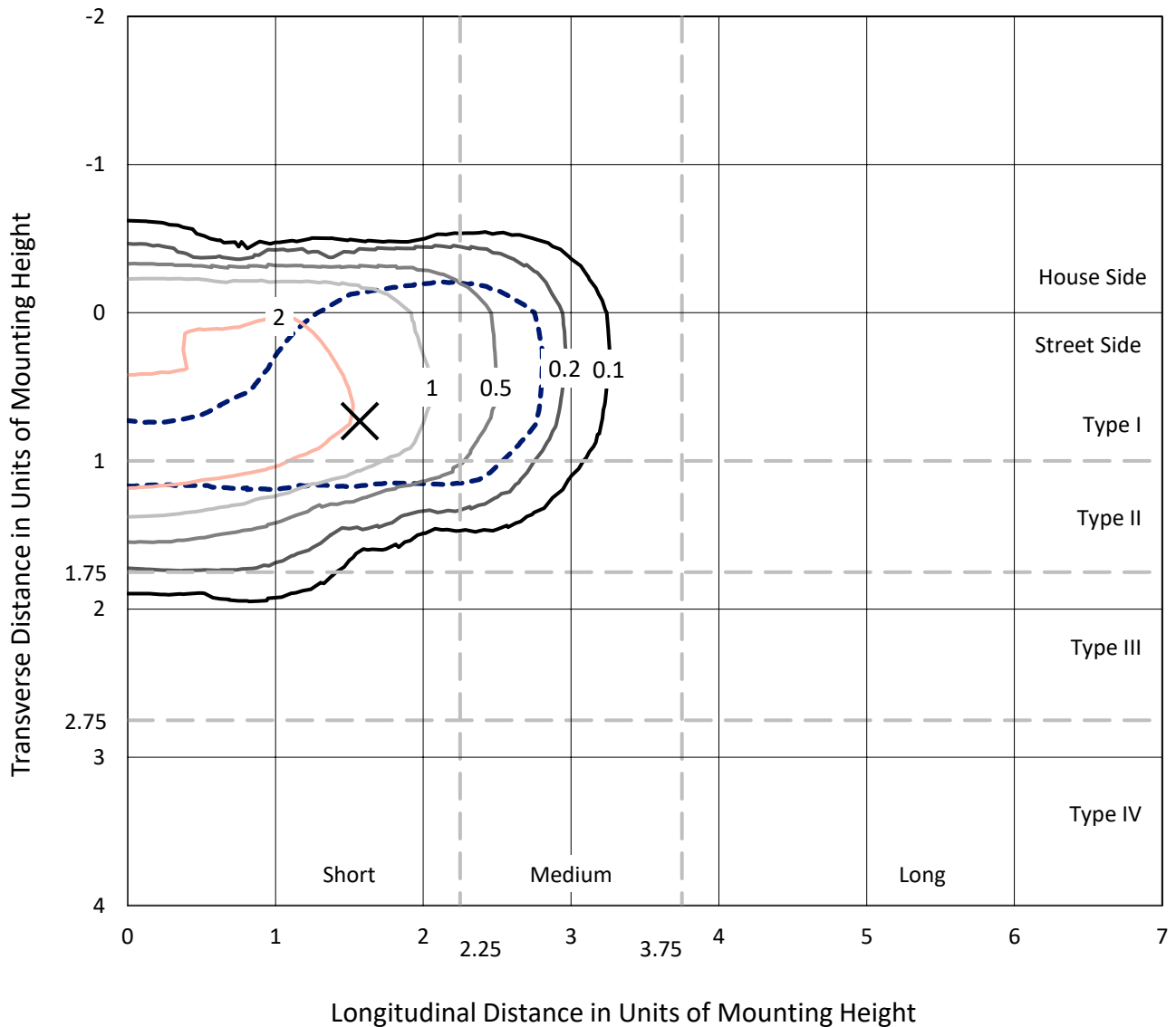
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

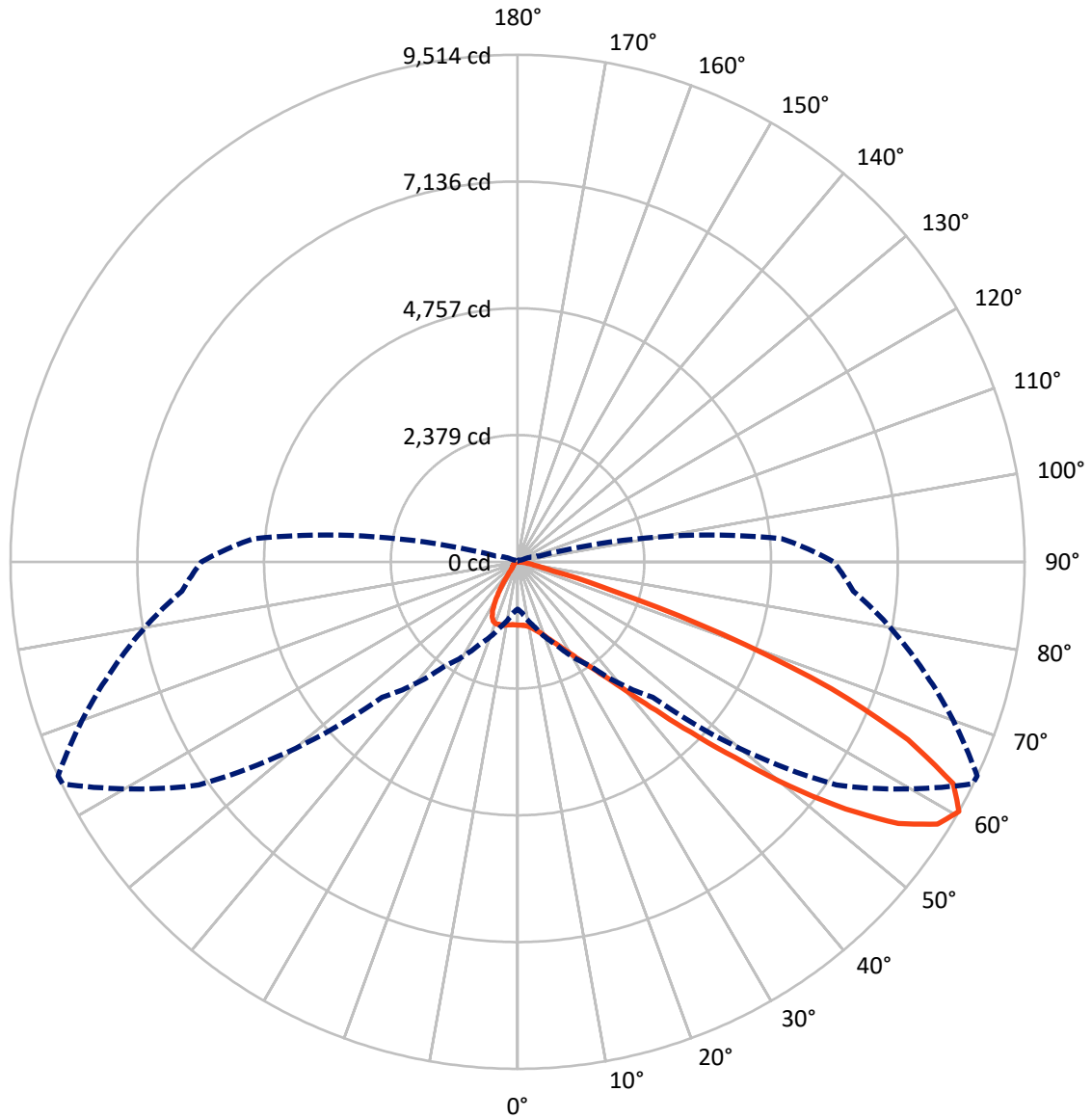
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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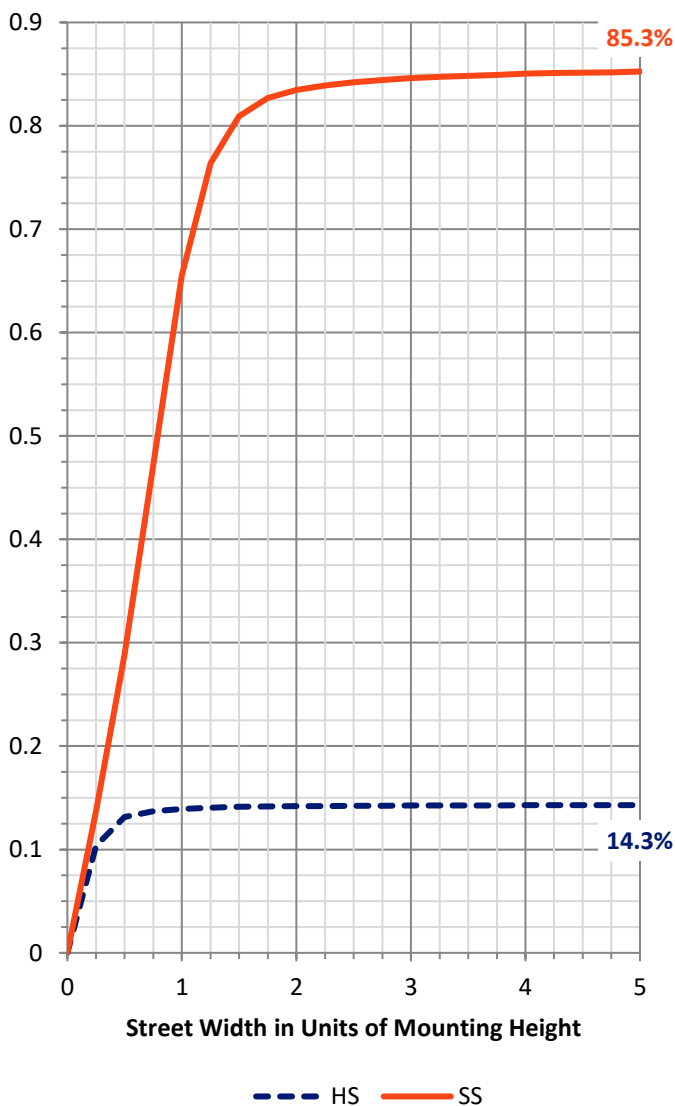
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1383.2	0.0	1383.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	8170.8	0.0	8170.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	9554.0	0.0	9554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	1.2
10°-20°	319.1	3.3
20°-30°	542.1	5.7
30°-40°	1118.6	11.7
40°-50°	2249.6	23.5
50°-60°	2752.9	28.8
60°-70°	1947.5	20.4
70°-80°	469.3	4.9
80°-90°	42.4	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°	9554.0	100.0
0°-180°	9554.0	100.0

Coefficient of Utilization

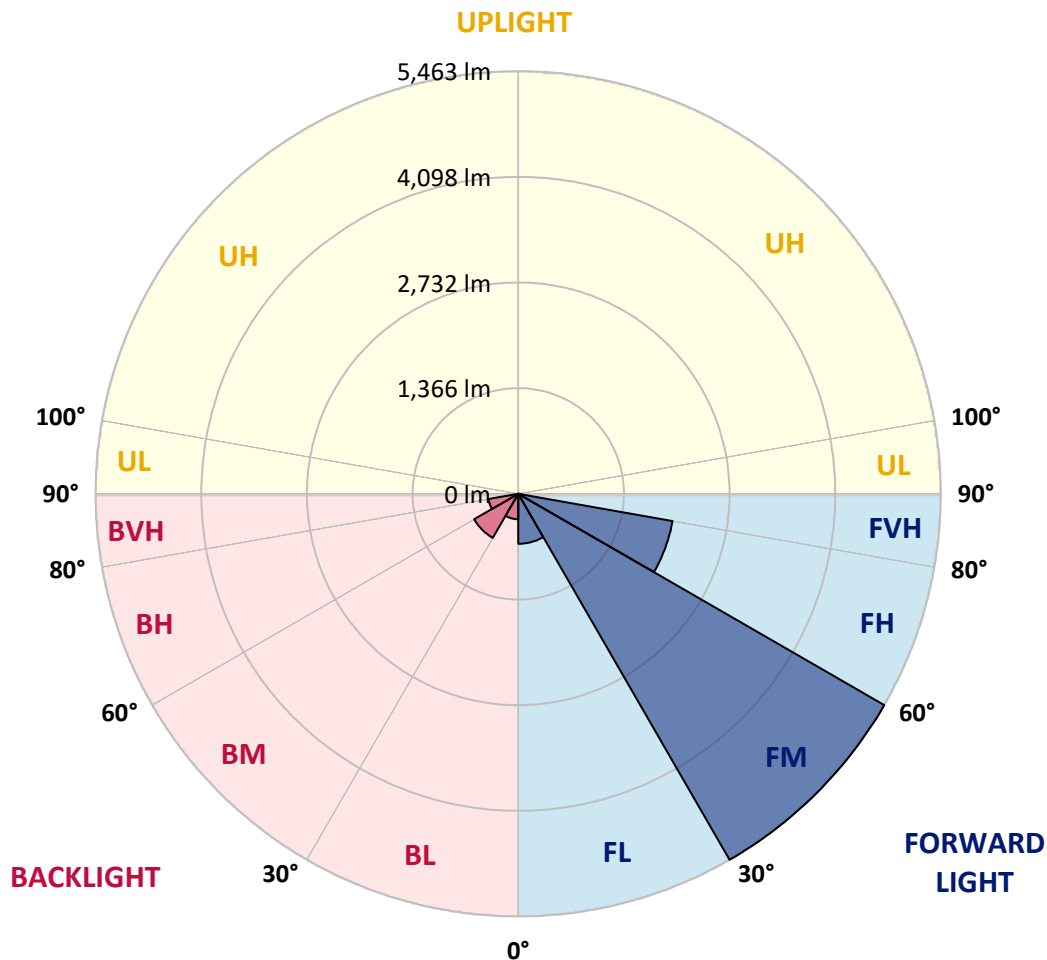


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.8	6.8			
FM (30°-60°)	5463.4	57.2			
FH (60°-80°)	2024.7	21.2			G2/5000
FVH (80°-90°)	36.9	0.4			G1/100
BL (0°-30°)	327.9	3.4	B1/500		
BM (30°-60°)	657.7	6.9	B1/1000		
BH (60°-80°)	392.1	4.1	B1/500		G1/500
BVH (80°-90°)	5.5	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2
2.5°	1194.0	1190.2	1190.2	1190.2	1194.0	1194.0	1197.7	1190.2	1190.2	1190.2	1190.2
5°	1186.4	1182.7	1182.7	1186.4	1190.2	1190.2	1197.7	1197.7	1197.7	1201.5	1201.5
7.5°	1201.5	1194.0	1194.0	1197.7	1201.5	1201.5	1209.0	1212.8	1212.8	1220.3	1224.1
10°	1220.3	1216.6	1216.6	1224.1	1231.6	1231.6	1242.9	1242.9	1242.9	1250.5	1254.2
12.5°	1246.7	1242.9	1242.9	1254.2	1265.5	1273.1	1280.6	1284.4	1288.1	1288.1	1288.1
15°	1284.4	1280.6	1280.6	1291.9	1306.9	1325.8	1337.1	1337.1	1344.6	1340.8	1325.8
17.5°	1337.1	1333.3	1337.1	1344.6	1363.4	1382.3	1404.9	1408.6	1404.9	1397.3	1374.7
20°	1423.7	1412.4	1419.9	1438.8	1438.8	1450.1	1480.2	1491.5	1495.3	1472.7	1431.2
22.5°	1514.1	1514.1	1521.6	1544.2	1529.2	1544.2	1570.6	1589.4	1597.0	1578.1	1510.3
25°	1683.6	1691.1	1679.8	1672.3	1634.6	1642.2	1676.1	1713.7	1713.7	1698.7	1600.7
27.5°	2056.5	2048.9	1969.8	1860.6	1762.7	1770.2	1804.1	1853.1	1856.8	1822.9	1691.1
30°	2591.3	2598.8	2444.4	2195.8	1981.1	1924.6	1962.3	2018.8	2026.3	1969.8	1807.9
32.5°	3427.4	3363.4	3077.2	2745.7	2342.7	2139.3	2154.4	2214.7	2237.3	2188.3	1992.4
35°	4508.4	4357.8	3928.4	3517.8	2934.0	2523.5	2406.7	2470.8	2482.1	2455.7	2222.2
37.5°	5152.5	5031.9	4753.2	4380.4	3694.9	3035.7	2738.2	2802.2	2790.9	2738.2	2451.9
40°	5551.7	5483.9	5333.3	5160.0	4723.1	3841.8	3284.3	3231.6	3235.4	3160.0	2824.8
42.5°	5777.7	5717.4	5660.9	5706.1	5578.1	5303.1	4075.3	3834.2	3811.6	3668.5	3258.0
45°	5789.0	5698.6	5766.4	6030.0	6233.4	6598.8	5107.3	4549.8	4561.1	4323.9	3796.6
47.5°	5355.9	5284.3	5480.1	5996.1	6670.3	7446.2	6308.8	5529.1	5476.4	5009.3	4342.7
50°	4500.9	4497.1	4757.0	5487.7	6670.3	7883.1	7596.9	6677.9	6621.4	5725.0	4839.9
52.5°	3563.0	3634.6	3811.6	4504.6	6056.4	7841.7	8546.0	7864.3	7706.1	6361.5	5254.2
55°	2772.1	2745.7	2960.4	3438.7	4802.2	7126.1	8854.9	8798.4	8666.5	6926.5	5619.5
57.5°	1702.4	1800.4	2090.4	2516.0	3495.2	5604.4	8410.4	9367.1	9288.0	7453.8	5999.9
60°	885.1	960.4	1273.1	1717.5	2387.9	3593.2	7299.3	9498.9	9514.0	7879.4	6323.8
62.5°	557.4	553.7	696.8	1205.3	1536.7	2018.8	5668.5	9031.9	9175.0	8207.0	6632.7
65°	418.1	421.8	478.3	798.5	1043.3	1054.6	3363.4	7811.6	8048.8	8293.7	6738.1
67.5°	387.9	391.7	418.1	523.5	783.4	704.3	1480.2	6022.5	6354.0	7495.2	6331.4
70°	346.5	350.3	391.7	433.1	591.3	516.0	666.7	3627.1	4086.6	5438.7	5065.8
72.5°	271.2	278.7	327.7	410.5	440.7	391.7	463.3	1604.5	1871.9	2990.5	2900.1
75°	199.6	203.4	248.6	316.4	387.9	278.7	357.8	636.5	696.8	1122.4	956.7
77.5°	139.4	139.4	173.3	237.3	323.9	195.9	256.1	342.7	350.3	418.1	274.9
80°	86.6	90.4	109.2	162.0	199.6	188.3	158.2	229.8	229.8	218.5	113.0
82.5°	49.0	52.7	75.3	109.2	135.6	128.1	101.7	131.8	135.6	139.4	64.0
85°	22.6	26.4	45.2	67.8	79.1	60.3	60.3	67.8	67.8	90.4	37.7
87.5°	3.8	3.8	22.6	30.1	26.4	30.1	30.1	37.7	37.7	45.2	18.8
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°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2
2.5°	1186.4	1186.4	1186.4	1182.7	1182.7	1178.9	1171.4	1171.4	1171.4	1171.4	1175.1
5°	1201.5	1197.7	1194.0	1182.7	1175.1	1160.1	1145.0	1141.2	1129.9	1129.9	1133.7
7.5°	1220.3	1220.3	1209.0	1190.2	1171.4	1145.0	1118.6	1099.8	1081.0	1077.2	1073.4
10°	1254.2	1246.7	1235.4	1201.5	1171.4	1129.9	1088.5	1039.5	1001.9	983.0	975.5
12.5°	1280.6	1276.8	1254.2	1216.6	1167.6	1103.6	1009.4	896.4	806.0	757.1	757.1
15°	1318.2	1310.7	1276.8	1224.1	1156.3	1005.6	813.5	640.3	542.4	489.6	482.1
17.5°	1355.9	1340.8	1299.4	1227.9	1107.3	828.6	568.7	410.5	342.7	316.4	308.8
20°	1401.1	1374.7	1314.5	1231.6	986.8	602.6	369.1	274.9	248.6	237.3	241.1
22.5°	1461.4	1416.2	1329.5	1209.0	806.0	391.7	259.9	222.2	207.2	195.9	195.9
25°	1536.7	1472.7	1355.9	1145.0	583.8	263.6	207.2	184.6	169.5	162.0	158.2
27.5°	1604.5	1525.4	1382.3	1032.0	372.9	207.2	173.3	154.4	139.4	135.6	131.8
30°	1694.9	1585.7	1408.6	851.2	244.8	169.5	146.9	128.1	116.8	113.0	113.0
32.5°	1849.3	1702.4	1457.6	647.8	184.6	146.9	124.3	109.2	101.7	97.9	97.9
35°	2030.1	1845.5	1499.0	452.0	158.2	124.3	105.5	94.2	90.4	86.6	86.6
37.5°	2218.4	2015.0	1506.6	286.2	139.4	109.2	94.2	86.6	79.1	79.1	79.1
40°	2557.4	2312.6	1472.7	192.1	120.5	97.9	82.9	79.1	71.6	71.6	71.6
42.5°	2952.9	2674.2	1386.0	154.4	109.2	86.6	79.1	71.6	64.0	64.0	60.3
45°	3465.1	3084.7	1239.2	135.6	97.9	79.1	71.6	64.0	60.3	56.5	56.5
47.5°	3947.2	3551.7	1099.8	120.5	90.4	75.3	64.0	56.5	52.7	52.7	52.7
50°	4406.7	3909.5	937.8	113.0	82.9	71.6	60.3	52.7	49.0	45.2	45.2
52.5°	4738.2	4192.0	787.2	101.7	75.3	64.0	56.5	49.0	41.4	37.7	37.7
55°	5107.3	4478.3	651.6	90.4	71.6	60.3	49.0	41.4	33.9	30.1	30.1
57.5°	5521.6	4757.0	527.3	82.9	67.8	52.7	41.4	33.9	26.4	22.6	22.6
60°	5932.1	4979.2	421.8	75.3	60.3	49.0	37.7	26.4	18.8	15.1	15.1
62.5°	6342.7	5129.9	323.9	67.8	56.5	41.4	30.1	18.8	11.3	7.5	7.5
65°	6512.1	5088.4	241.1	60.3	49.0	33.9	26.4	18.8	11.3	7.5	7.5
67.5°	6041.3	4576.2	169.5	60.3	45.2	33.9	22.6	15.1	7.5	3.8	3.8
70°	4715.6	3532.9	124.3	60.3	45.2	33.9	22.6	15.1	7.5	3.8	3.8
72.5°	2674.2	1966.1	94.2	52.7	41.4	30.1	22.6	15.1	7.5	3.8	3.8
75°	952.9	632.8	71.6	49.0	37.7	26.4	22.6	15.1	7.5	3.8	3.8
77.5°	229.8	162.0	56.5	41.4	33.9	26.4	18.8	15.1	11.3	3.8	3.8
80°	94.2	67.8	45.2	33.9	26.4	22.6	18.8	15.1	7.5	3.8	3.8
82.5°	41.4	33.9	18.8	18.8	15.1	15.1	15.1	15.1	7.5	3.8	3.8
85°	18.8	15.1	7.5	7.5	3.8	3.8	3.8	7.5	7.5	3.8	3.8
87.5°	11.3	7.5	7.5	7.5	3.8	3.8	3.8	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)