

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: P572957

Luminaire Tested: **ARCH-S-PA2-130-830-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572957
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-PA2-130-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12837 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

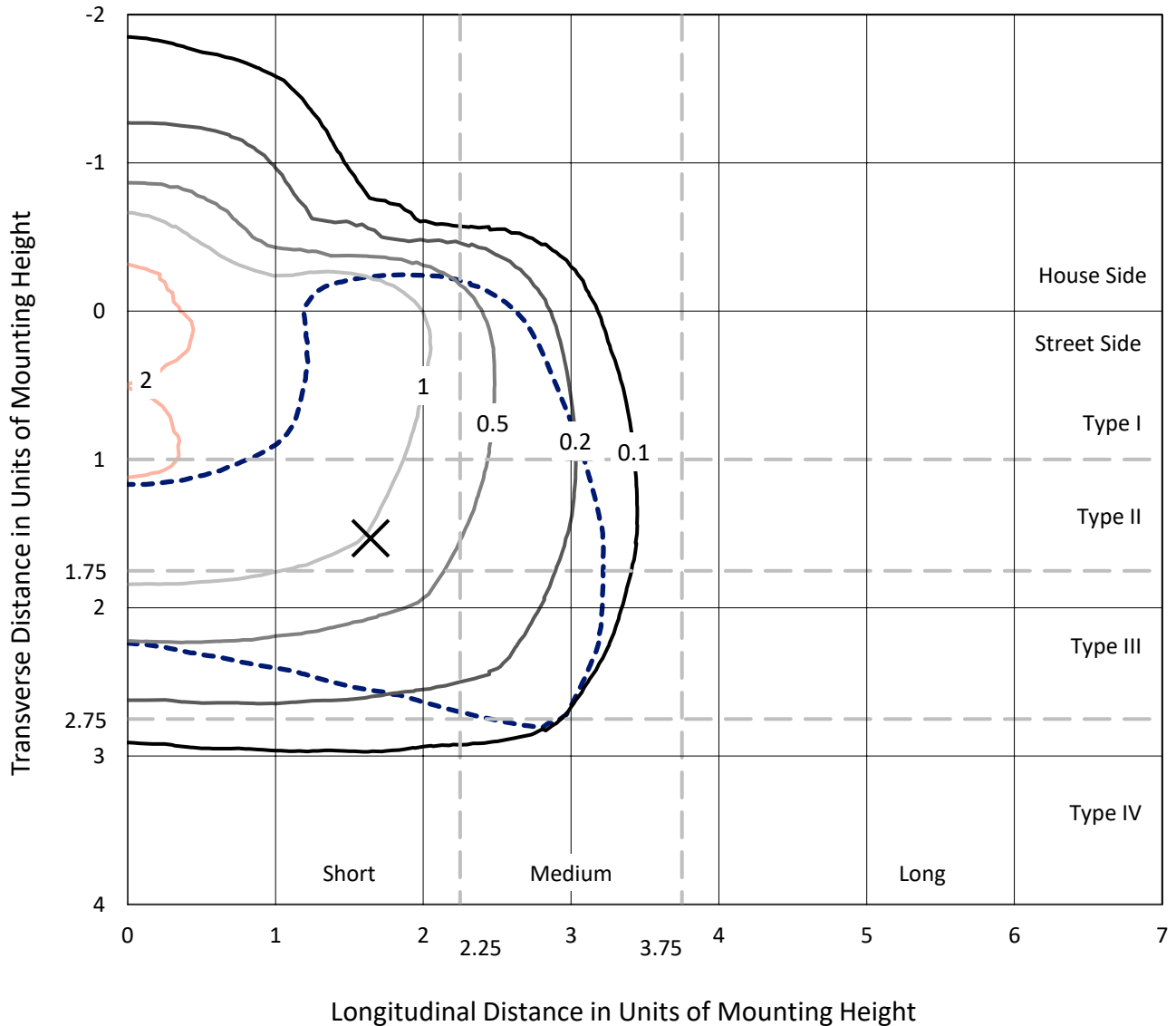
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

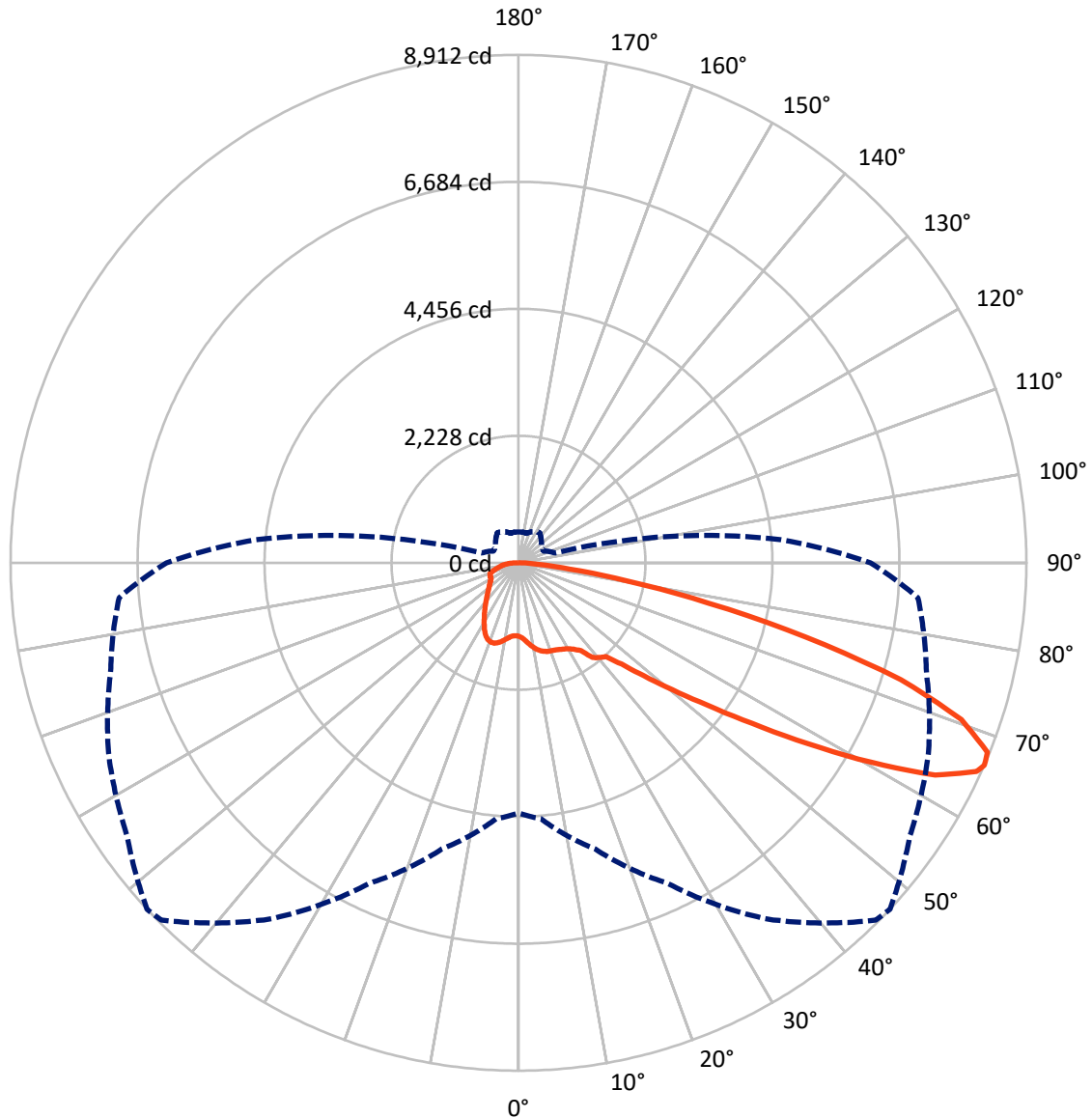
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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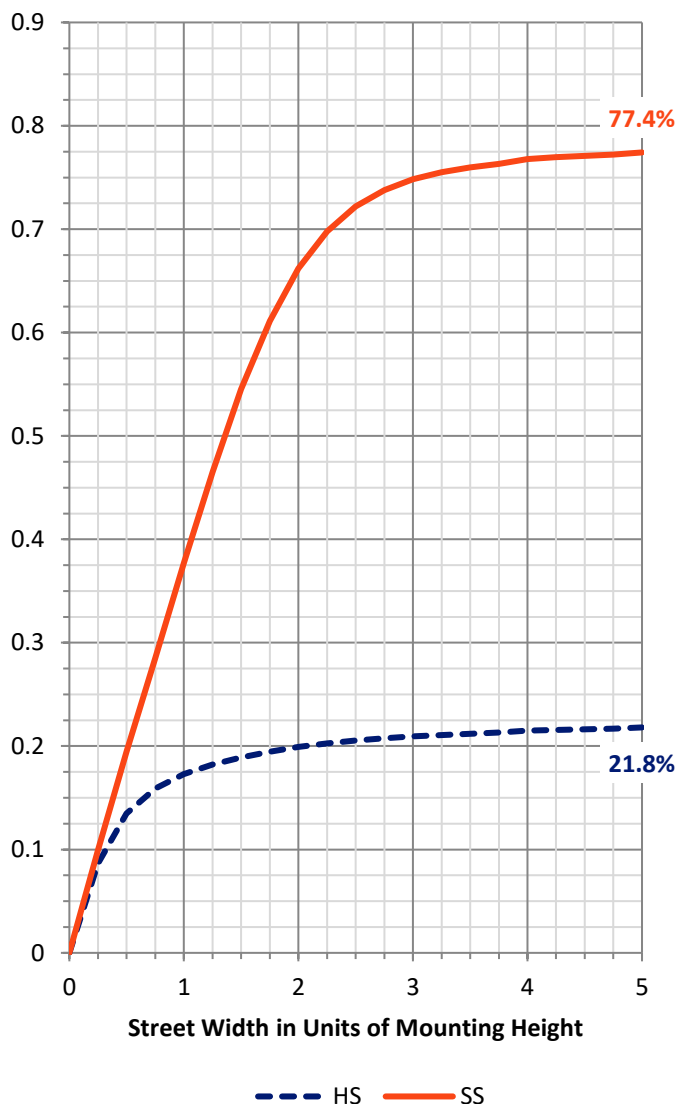
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2854.0	0.0	2854.0
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	9983.0	0.0	9983.0
	% Fixture	77.8	0.0	77.8
Total	Lumens	12837.0	0.0	12837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.0
10°-20°	430.9	3.4
20°-30°	718.6	5.6
30°-40°	1043.5	8.1
40°-50°	1595.9	12.4
50°-60°	3016.7	23.5
60°-70°	3898.0	30.4
70°-80°	1752.1	13.6
80°-90°	249.9	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°	12837.0	100.0
0°-180°	12837.0	100.0

Coefficient of Utilization



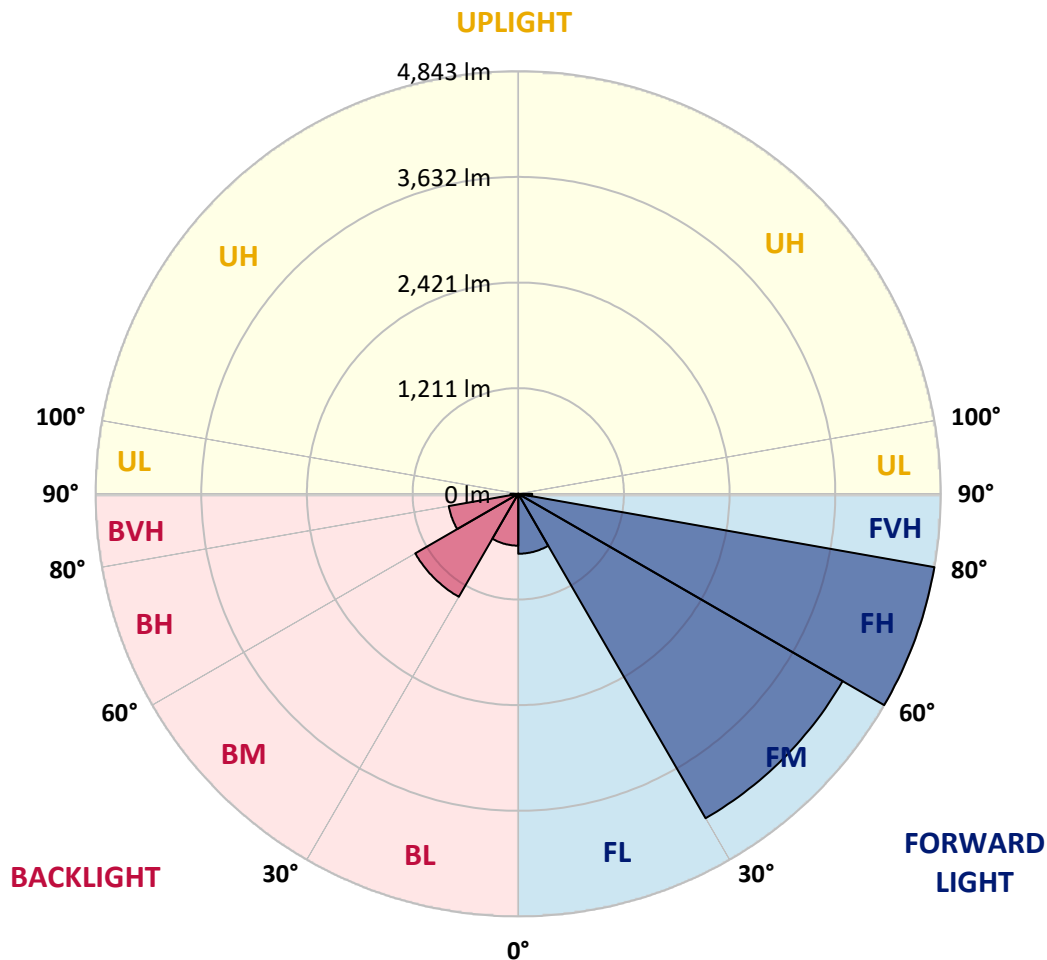
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	686.8	5.4			
FM	(30°-60°)	4292.9	33.4			
FH	(60°-80°)	4842.6	37.7			G2/5000
FVH	(80°-90°)	160.6	1.3			G2/225
BL	(0°-30°)	593.9	4.6	B2/1000		
BM	(30°-60°)	1363.2	10.6	B2/2500		
BH	(60°-80°)	807.5	6.3	B2/1000		G2/1000
BVH	(80°-90°)	89.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1363.8	1353.3	1346.3	1342.8	1335.9	1321.9	1321.9	1318.4	1304.5	1297.5	1294.0
5°	1471.9	1464.9	1447.5	1433.5	1412.6	1384.7	1381.2	1360.3	1332.4	1311.4	1297.5
7.5°	1576.5	1569.5	1552.1	1531.2	1496.3	1461.4	1451.0	1423.0	1377.7	1346.3	1321.9
10°	1667.2	1656.7	1635.8	1607.9	1569.5	1531.2	1520.7	1489.3	1444.0	1398.6	1356.8
12.5°	1726.5	1719.5	1695.1	1660.2	1618.4	1580.0	1573.0	1545.1	1499.8	1451.0	1398.6
15°	1754.4	1750.9	1723.0	1688.1	1646.3	1614.9	1611.4	1587.0	1548.6	1499.8	1440.5
17.5°	1747.4	1743.9	1719.5	1684.6	1653.2	1635.8	1635.8	1618.4	1587.0	1545.1	1482.3
20°	1712.5	1712.5	1691.6	1667.2	1649.8	1646.3	1646.3	1642.8	1621.9	1587.0	1524.2
22.5°	1677.7	1677.7	1663.7	1646.3	1642.8	1656.7	1660.2	1667.2	1660.2	1632.3	1576.5
25°	1684.6	1681.1	1663.7	1642.8	1646.3	1677.7	1684.6	1702.1	1698.6	1677.7	1628.8
27.5°	1761.4	1757.9	1712.5	1670.7	1667.2	1705.6	1712.5	1737.0	1737.0	1719.5	1688.1
30°	1953.2	1960.2	1876.5	1771.8	1719.5	1743.9	1750.9	1778.8	1792.8	1799.7	1775.3
32.5°	2246.2	2235.7	2110.2	1939.3	1824.2	1799.7	1810.2	1834.6	1883.4	1897.4	1838.1
35°	2542.7	2549.6	2427.6	2211.3	1991.6	1900.9	1893.9	1928.8	2002.0	1939.3	1834.6
37.5°	2818.2	2807.7	2664.7	2431.0	2211.3	2106.7	2110.2	2096.2	2033.4	1907.9	1859.0
40°	3118.1	3090.2	2971.7	2671.7	2392.7	2218.3	2186.9	2068.3	2016.0	1963.7	1956.7
42.5°	3414.6	3418.1	3320.4	3024.0	2608.9	2298.5	2249.7	2127.6	2162.5	2152.0	2145.0
45°	3787.8	3787.8	3690.2	3414.6	2950.7	2598.5	2532.2	2385.7	2441.5	2483.4	2567.1
47.5°	4129.6	4108.7	4080.8	3847.1	3397.2	2989.1	2961.2	2793.8	2940.3	3069.3	3240.2
50°	4492.4	4464.5	4447.0	4304.0	3983.1	3582.0	3498.3	3323.9	3644.8	3885.5	4202.9
52.5°	5057.4	5008.6	4917.9	4837.7	4712.1	4248.2	4143.6	4014.5	4429.6	4733.0	5381.8
55°	5566.6	5524.8	5437.6	5496.9	5479.4	5057.4	4966.7	4844.6	5294.6	5664.3	6407.2
57.5°	5755.0	5758.5	5877.0	6194.4	6361.9	6117.7	5988.7	5866.6	6246.8	6417.7	7087.3
60°	5842.2	5831.7	6138.6	6654.8	7198.9	7272.2	7108.3	6857.1	7000.1	7010.6	7662.8
62.5°	5653.8	5681.7	6103.8	6846.7	7701.2	8227.9	8203.5	7764.0	7631.4	7485.0	7816.3
65°	4938.8	4977.2	5598.0	6504.9	7781.4	8806.9	8831.3	8318.6	7948.8	7540.8	7380.3
66°	4394.7	4509.8	5200.4	6208.4	7634.9	8866.1	8911.5	8377.8	7934.9	7408.2	7035.0
67.5°	3686.7	3679.7	4450.5	5556.2	7226.8	8813.8	8873.1	8294.1	7746.5	7017.6	6344.4
70°	2256.6	2326.4	2989.1	4147.1	5981.7	8161.6	8241.8	7704.7	6933.9	5943.3	4691.2
72.5°	1158.0	1273.1	1709.1	2696.1	4342.4	6745.5	7017.6	6470.0	5667.8	4300.5	2863.5
75°	613.9	606.9	805.7	1461.4	2772.9	5060.9	5203.9	4851.6	3916.9	2563.6	1457.9
77.5°	327.9	345.3	422.0	749.9	1524.2	3233.2	3414.6	3128.6	2232.2	1311.4	697.6
80°	223.2	233.7	286.0	422.0	826.6	1754.4	1921.8	1667.2	1168.4	620.8	327.9
82.5°	143.0	150.0	195.3	261.6	495.3	851.0	896.4	854.5	572.0	352.3	198.8
85°	87.2	90.7	118.6	167.4	310.4	345.3	359.2	362.7	320.9	230.2	108.1
87.5°	41.9	45.3	66.3	83.7	146.5	125.6	115.1	118.6	177.9	136.0	48.8
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°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1290.5	1287.0	1280.0	1276.6	1280.0	1280.0	1280.0	1283.5	1290.5	1290.5	1294.0
5°	1290.5	1283.5	1276.6	1276.6	1283.5	1290.5	1297.5	1311.4	1318.4	1321.9	1321.9
7.5°	1307.9	1301.0	1294.0	1294.0	1304.5	1318.4	1332.4	1349.8	1367.2	1381.2	1381.2
10°	1342.8	1332.4	1325.4	1328.9	1346.3	1363.8	1381.2	1402.1	1419.6	1437.0	1437.0
12.5°	1381.2	1370.7	1360.3	1367.2	1391.7	1412.6	1430.0	1440.5	1457.9	1471.9	1471.9
15°	1419.6	1402.1	1398.6	1412.6	1437.0	1451.0	1457.9	1457.9	1464.9	1478.9	1478.9
17.5°	1461.4	1444.0	1440.5	1454.4	1475.4	1475.4	1461.4	1451.0	1447.5	1457.9	1461.4
20°	1503.3	1485.8	1485.8	1496.3	1492.8	1468.4	1444.0	1426.5	1412.6	1423.0	1426.5
22.5°	1555.6	1538.1	1531.2	1517.2	1485.8	1437.0	1398.6	1377.7	1367.2	1374.2	1381.2
25°	1607.9	1594.0	1576.5	1527.7	1454.4	1377.7	1328.9	1311.4	1314.9	1328.9	1335.9
27.5°	1674.2	1667.2	1625.3	1520.7	1398.6	1294.0	1245.2	1241.7	1255.6	1276.6	1287.0
30°	1754.4	1743.9	1670.7	1499.8	1321.9	1196.3	1161.5	1168.4	1189.4	1206.8	1217.3
32.5°	1810.2	1803.2	1691.6	1451.0	1227.7	1109.1	1081.2	1081.2	1091.7	1116.1	1126.6
35°	1827.6	1855.5	1705.6	1377.7	1116.1	1032.4	1004.5	987.1	987.1	1008.0	1015.0
37.5°	1886.9	1949.7	1712.5	1280.0	1025.4	962.6	927.8	896.4	885.9	882.4	882.4
40°	2023.0	2096.2	1709.1	1154.5	938.2	892.9	851.0	816.2	788.3	749.9	753.4
42.5°	2260.1	2315.9	1698.6	1021.9	861.5	830.1	788.3	746.4	701.1	659.2	655.7
45°	2717.0	2633.3	1670.7	906.8	791.7	774.3	735.9	687.1	631.3	592.9	592.9
47.5°	3439.0	3208.8	1653.2	798.7	729.0	725.5	690.6	638.3	582.5	554.6	551.1
50°	4429.6	4004.1	1681.1	722.0	673.2	683.6	655.7	606.9	561.5	537.1	533.6
52.5°	5566.6	4858.6	1712.5	673.2	631.3	652.2	638.3	592.9	547.6	526.7	523.2
55°	6445.6	5552.7	1667.2	627.8	589.4	620.8	620.8	579.0	540.6	519.7	519.7
57.5°	7062.9	5831.7	1510.2	586.0	554.6	592.9	603.4	572.0	537.1	530.2	530.2
60°	7328.0	5817.8	1234.7	547.6	530.2	565.0	592.9	565.0	544.1	561.5	565.0
62.5°	7185.0	5514.3	959.2	519.7	512.7	558.1	603.4	592.9	568.5	582.5	589.4
65°	6539.7	4980.7	722.0	495.3	491.8	561.5	631.3	610.4	551.1	554.6	558.1
66°	6177.0	4621.4	662.7	488.3	484.8	565.0	645.3	603.4	537.1	544.1	540.6
67.5°	5402.7	4056.4	582.5	474.3	470.9	565.0	662.7	589.4	519.7	530.2	519.7
70°	3962.2	2870.5	498.8	456.9	449.9	554.6	659.2	561.5	481.3	474.3	456.9
72.5°	2298.5	1737.0	443.0	436.0	418.5	488.3	617.4	516.2	439.5	418.5	401.1
75°	1130.1	882.4	394.1	411.6	366.2	429.0	558.1	477.8	404.6	376.7	366.2
77.5°	519.7	446.4	355.8	376.7	324.4	369.7	509.2	436.0	359.2	317.4	306.9
80°	282.5	279.0	300.0	313.9	272.1	324.4	449.9	380.2	303.4	258.1	244.2
82.5°	174.4	177.9	219.7	240.7	212.8	282.5	397.6	317.4	230.2	181.4	184.9
85°	90.7	101.1	146.5	160.4	139.5	209.3	300.0	212.8	129.1	94.2	94.2
87.5°	31.4	41.9	73.2	87.2	76.7	125.6	188.3	101.1	27.9	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)