

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: P399301

Luminaire Tested: **ARCH-L-PA3-120-760-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-760-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19846 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

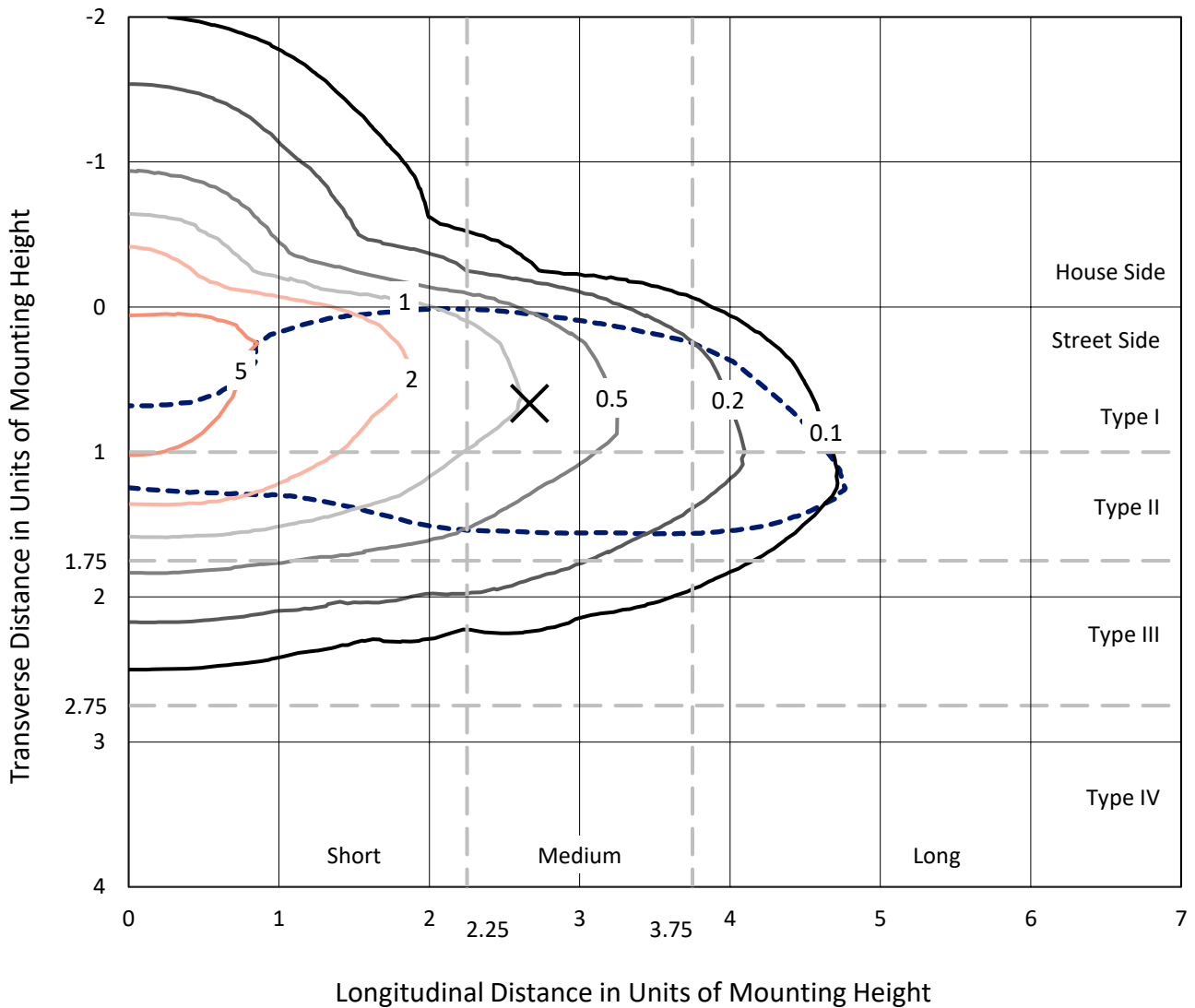
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

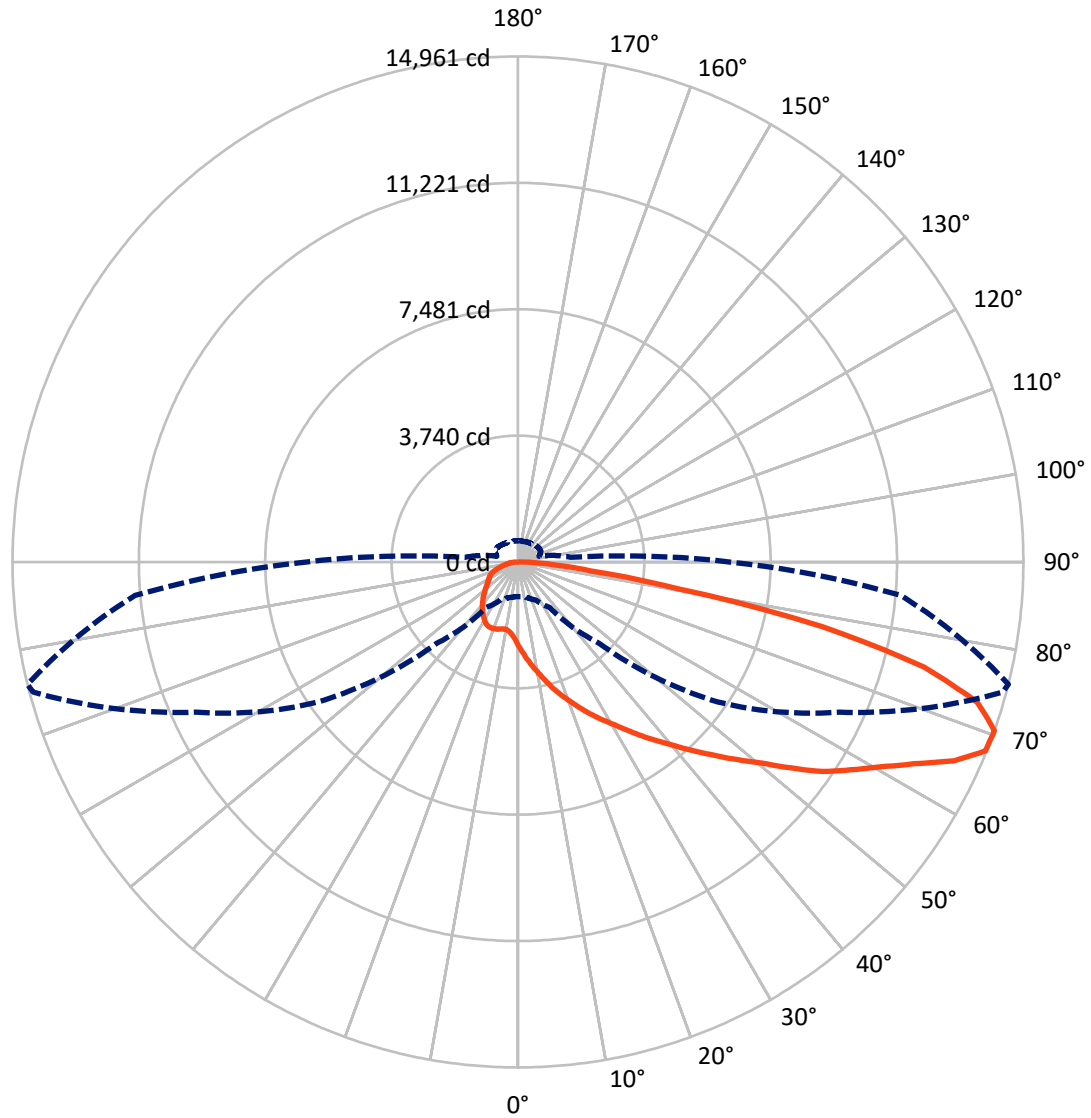
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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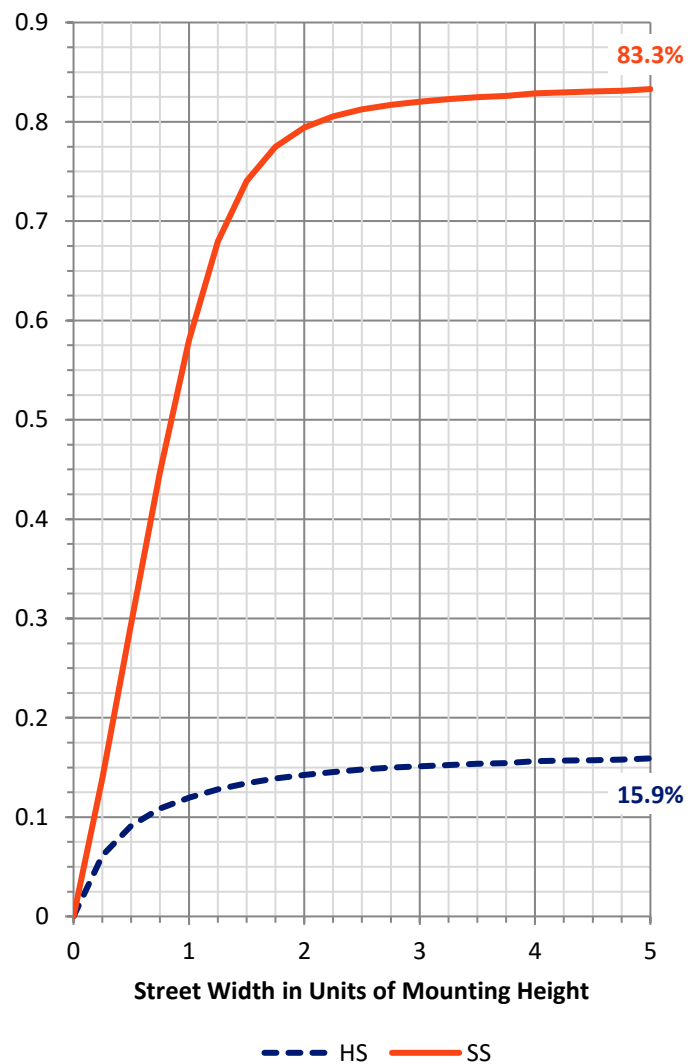
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3240.1	0.0	3240.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	16605.9	0.0	16605.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	19846.0	0.0	19846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.3
10°-20°	876.4	4.4
20°-30°	1568.0	7.9
30°-40°	2536.5	12.8
40°-50°	3669.5	18.5
50°-60°	4199.9	21.2
60°-70°	3863.5	19.5
70°-80°	2389.1	12.0
80°-90°	485.1	2.4
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°	19846.0	100.0
0°-180°	19846.0	100.0



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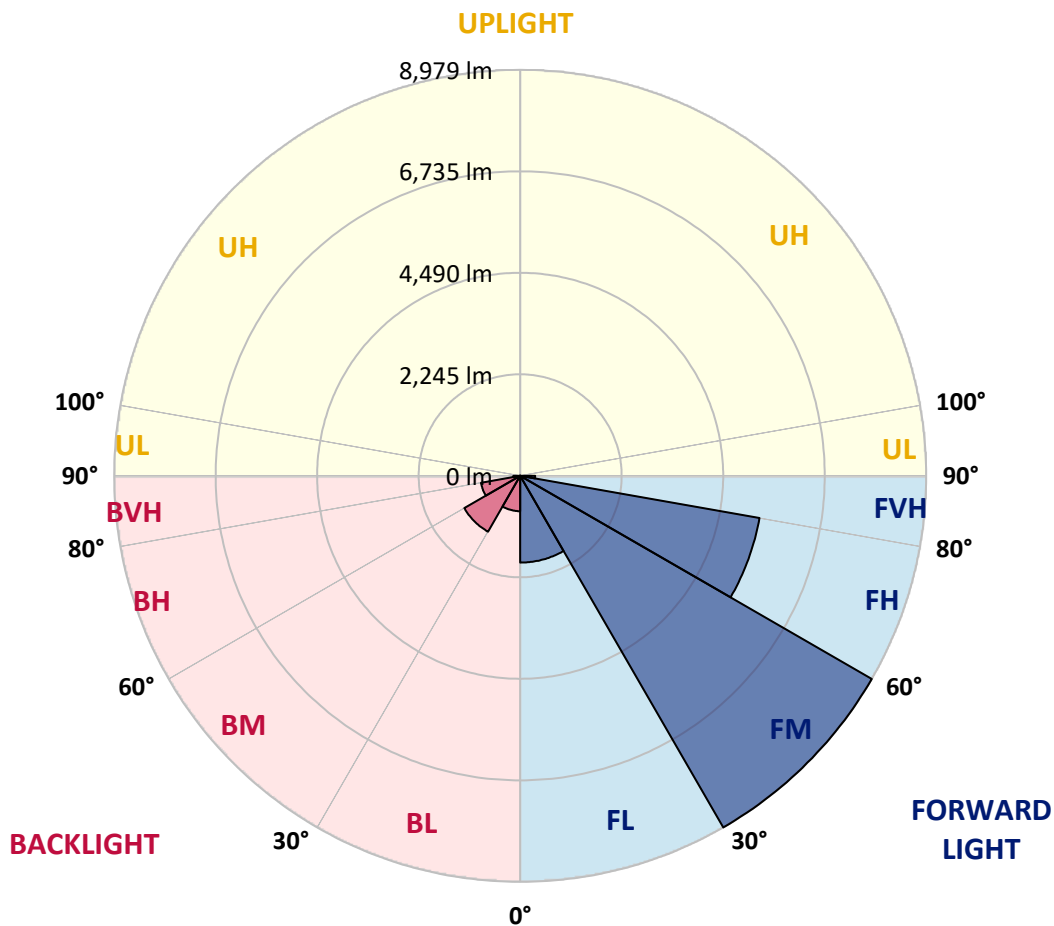
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.8	9.7			
FM (30°-60°)	8979.4	45.2			
FH (60°-80°)	5373.8	27.1			G3/7500
FVH (80°-90°)	333.1	1.7			G3/500
BL (0°-30°)	782.6	3.9	B2/1000		
BM (30°-60°)	1426.6	7.2	B2/2500		
BH (60°-80°)	878.8	4.4	B2/1000		G2/1000
BVH (80°-90°)	152.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8
2.5°	3163.0	3139.5	3136.9	3100.3	3066.4	2975.1	2909.8	2795.0	2680.2	2677.6	2562.7
5°	3656.2	3632.7	3619.7	3575.3	3517.9	3397.8	3280.4	3102.9	2907.2	2894.2	2677.6
7.5°	3990.2	3969.4	3943.3	3925.0	3870.2	3763.2	3619.7	3408.3	3139.5	3113.4	2810.6
10°	4214.7	4201.6	4196.4	4183.4	4149.4	4063.3	3925.0	3700.6	3371.7	3343.0	2951.6
12.5°	4311.2	4306.0	4329.5	4366.0	4379.1	4345.2	4212.1	4000.7	3627.5	3596.2	3121.2
15°	4199.0	4204.2	4264.3	4389.5	4522.6	4595.7	4517.4	4311.2	3917.2	3872.8	3319.5
17.5°	4146.8	4154.6	4196.4	4316.4	4504.3	4731.4	4767.9	4606.1	4196.4	4133.8	3528.3
20°	4238.2	4248.6	4279.9	4373.9	4504.3	4747.0	4937.6	4888.0	4470.4	4405.2	3729.3
22.5°	4470.4	4483.5	4480.9	4540.9	4629.6	4796.6	5031.5	5154.2	4757.5	4684.4	3938.0
25°	4966.3	4955.8	4867.1	4838.4	4861.9	4968.9	5156.8	5409.9	5057.6	4984.5	4157.3
27.5°	5639.6	5626.5	5464.7	5318.6	5188.1	5235.1	5334.2	5616.1	5362.9	5279.4	4366.0
30°	6359.8	6344.2	6156.3	5918.8	5629.1	5561.3	5548.2	5796.1	5670.9	5582.2	4587.9
32.5°	7061.9	7048.8	6847.9	6571.2	6171.9	5968.4	5843.1	5997.1	6020.6	5934.5	4830.6
35°	7701.2	7701.2	7529.0	7200.2	6748.7	6440.7	6234.6	6245.0	6422.5	6323.3	5107.2
37.5°	8270.1	8267.5	8079.6	7756.0	7322.8	6970.5	6714.8	6545.1	6806.1	6720.0	5396.9
40°	8721.6	8703.4	8565.0	8283.2	7847.4	7497.7	7239.3	6897.4	7234.1	7155.8	5704.8
42.5°	9050.4	9040.0	8946.1	8700.7	8285.8	7957.0	7779.5	7341.1	7719.5	7641.2	6064.9
45°	9178.3	9199.2	9199.2	8966.9	8638.1	8338.0	8259.7	7829.1	8244.1	8165.8	6451.2
47.5°	8972.2	9027.0	9139.2	9154.8	8865.2	8661.6	8687.7	8319.7	8784.3	8742.5	6874.0
50°	8327.6	8429.3	8674.7	9118.3	8956.5	8909.5	9053.1	8820.8	9363.6	9350.6	7388.1
52.5°	6665.2	6913.1	7677.7	8473.7	8893.9	9024.4	9415.8	9384.5	10110.0	10130.9	8058.8
55°	5112.4	5206.4	6091.0	7445.5	8510.2	8987.8	9658.5	9935.1	10919.0	10945.1	8674.7
57.5°	4133.8	4196.4	4679.2	6091.0	7636.0	8789.5	9849.0	10256.1	11540.1	11608.0	9222.7
60°	3275.2	3366.5	3690.1	4660.9	6412.0	8311.9	9982.1	10613.7	12208.2	12310.0	9877.7
62.5°	2434.9	2479.2	2784.6	3452.6	5075.9	7453.3	9911.7	11002.5	13027.6	13150.3	10665.9
65°	1732.8	1772.0	1988.6	2455.7	3752.8	6292.0	9501.9	11292.2	14055.9	14181.1	11459.2
67.5°	1297.0	1312.7	1435.3	1717.2	2528.8	4888.0	8672.0	11242.6	14807.5	14919.7	11777.6
70°	1025.6	1030.8	1090.9	1242.2	1644.1	3403.1	7218.4	10514.5	14862.3	14961.4	11375.7
72.5°	850.8	848.2	882.1	955.2	1145.7	2153.0	5347.3	9162.7	14157.6	14225.5	10253.5
75°	702.0	707.2	730.7	772.5	874.3	1419.7	3465.7	7309.8	12490.0	12417.0	8604.2
77.5°	589.8	587.2	597.6	634.2	707.2	1020.4	2030.3	5282.0	9256.6	9220.1	5647.4
80°	475.0	480.2	495.8	527.2	595.0	777.7	1200.5	3296.1	4966.3	4833.2	2698.4
82.5°	318.4	368.0	399.3	435.8	514.1	574.1	762.0	1675.4	2220.9	2186.9	1224.0
85°	151.4	200.9	297.5	339.3	417.6	360.1	516.7	798.6	1111.7	1098.7	441.0
87.5°	31.3	31.3	159.2	190.5	258.4	154.0	287.1	347.1	537.6	503.7	180.1
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°	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8	2481.8
2.5°	2494.9	2424.4	2283.5	2171.3	2056.4	1991.2	1910.3	1871.2	1863.3	1842.5	1858.1
5°	2539.2	2400.9	2134.7	1959.9	1842.5	1785.0	1756.3	1745.9	1743.3	1738.1	1738.1
7.5°	2599.3	2387.9	2040.8	1863.3	1787.6	1769.4	1777.2	1792.9	1795.5	1800.7	1798.1
10°	2672.3	2390.5	1988.6	1839.8	1803.3	1805.9	1832.0	1852.9	1863.3	1871.2	1868.5
12.5°	2774.1	2421.8	1980.8	1855.5	1839.8	1850.3	1876.4	1897.3	1907.7	1910.3	1910.3
15°	2907.2	2487.0	1999.0	1889.4	1876.4	1884.2	1899.9	1907.7	1910.3	1907.7	1907.7
17.5°	3053.4	2565.3	2025.1	1910.3	1889.4	1881.6	1876.4	1868.5	1852.9	1842.5	1842.5
20°	3194.3	2635.8	2038.2	1907.7	1871.2	1839.8	1808.5	1769.4	1743.3	1722.4	1722.4
22.5°	3335.2	2701.0	2038.2	1879.0	1821.6	1761.5	1696.3	1633.7	1594.5	1568.4	1568.4
25°	3484.0	2763.7	2022.5	1829.4	1743.3	1657.2	1568.4	1490.1	1451.0	1424.9	1419.7
27.5°	3609.2	2800.2	1980.8	1758.9	1646.7	1537.1	1435.3	1354.4	1325.7	1302.2	1302.2
30°	3742.3	2823.7	1902.5	1667.6	1537.1	1411.8	1307.5	1242.2	1210.9	1177.0	1174.4
32.5°	3891.1	2839.4	1813.7	1571.0	1424.9	1291.8	1203.1	1150.9	1083.0	1046.5	1041.3
35°	4063.3	2860.2	1719.8	1461.4	1312.7	1192.6	1140.4	1054.3	989.1	957.8	955.2
37.5°	4246.0	2875.9	1618.0	1364.9	1210.9	1127.4	1075.2	973.4	916.0	869.0	863.8
40°	4439.1	2875.9	1513.6	1270.9	1130.0	1098.7	999.5	908.2	811.6	788.1	782.9
42.5°	4653.1	2870.7	1409.2	1179.6	1054.3	1033.4	955.2	858.6	809.0	788.1	782.9
45°	4880.1	2852.4	1310.1	1075.2	976.0	934.3	874.3	848.2	827.3	827.3	827.3
47.5°	5138.5	2836.7	1197.9	981.2	918.6	871.6	827.3	811.6	809.0	816.8	824.7
50°	5469.9	2831.5	1103.9	913.4	874.3	819.4	814.2	801.2	803.8	803.8	803.8
52.5°	5871.8	2784.6	1015.2	863.8	829.9	764.6	780.3	793.3	798.6	796.0	793.3
55°	6166.7	2701.0	939.5	829.9	798.6	743.8	764.6	785.5	790.7	782.9	782.9
57.5°	6432.9	2583.6	879.5	803.8	777.7	730.7	754.2	775.1	769.9	767.3	764.6
60°	6738.3	2471.4	832.5	790.7	756.8	725.5	746.4	759.4	751.6	746.4	743.8
62.5°	7069.7	2361.8	798.6	790.7	741.2	722.9	738.5	743.8	728.1	722.9	722.9
65°	7223.7	2189.5	762.0	790.7	733.3	717.7	722.9	717.7	702.0	702.0	699.4
67.5°	6970.5	1905.1	715.1	780.3	743.8	709.8	699.4	691.6	673.3	673.3	668.1
70°	6271.1	1565.8	647.2	746.4	746.4	707.2	668.1	649.8	628.9	636.8	626.3
72.5°	5357.7	1242.2	563.7	689.0	730.7	704.6	634.2	605.5	587.2	595.0	579.4
75°	4339.9	963.0	464.5	597.6	691.6	691.6	600.2	561.1	540.2	540.2	521.9
77.5°	2766.3	712.4	378.4	495.8	621.1	673.3	571.5	511.5	480.2	472.4	459.3
80°	1370.1	501.1	310.6	394.1	529.8	631.5	550.6	454.1	409.7	394.1	370.6
82.5°	728.1	347.1	247.9	307.9	422.8	568.9	524.6	391.5	336.7	313.2	287.1
85°	326.2	214.0	198.3	234.9	321.0	467.1	472.4	321.0	258.4	307.9	227.0
87.5°	120.0	96.6	96.6	120.0	185.3	195.7	334.0	206.2	164.4	112.2	88.7
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)