

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: P572737

Luminaire Tested: **ARCH-S-PA2-110-730-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13528 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

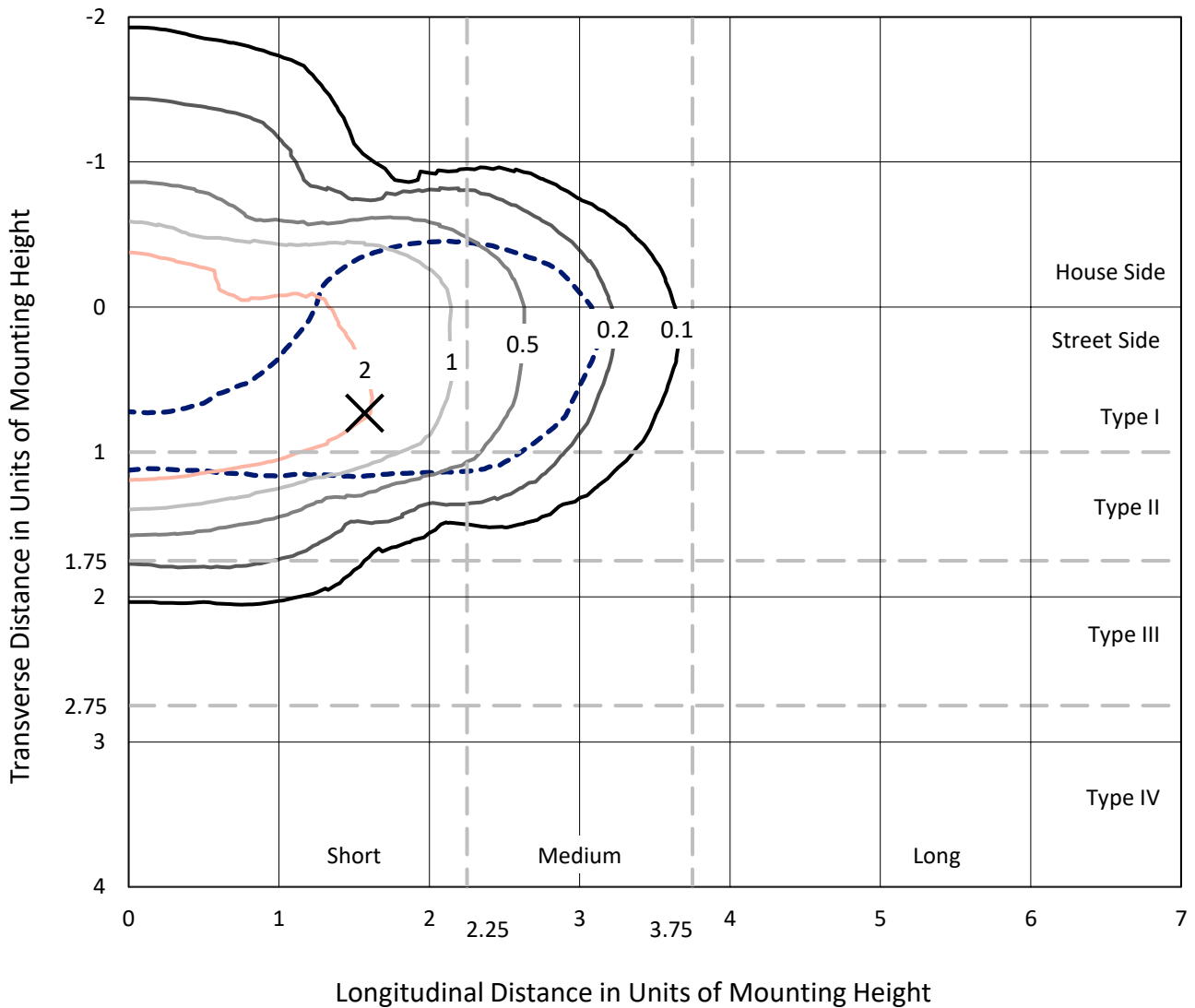
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

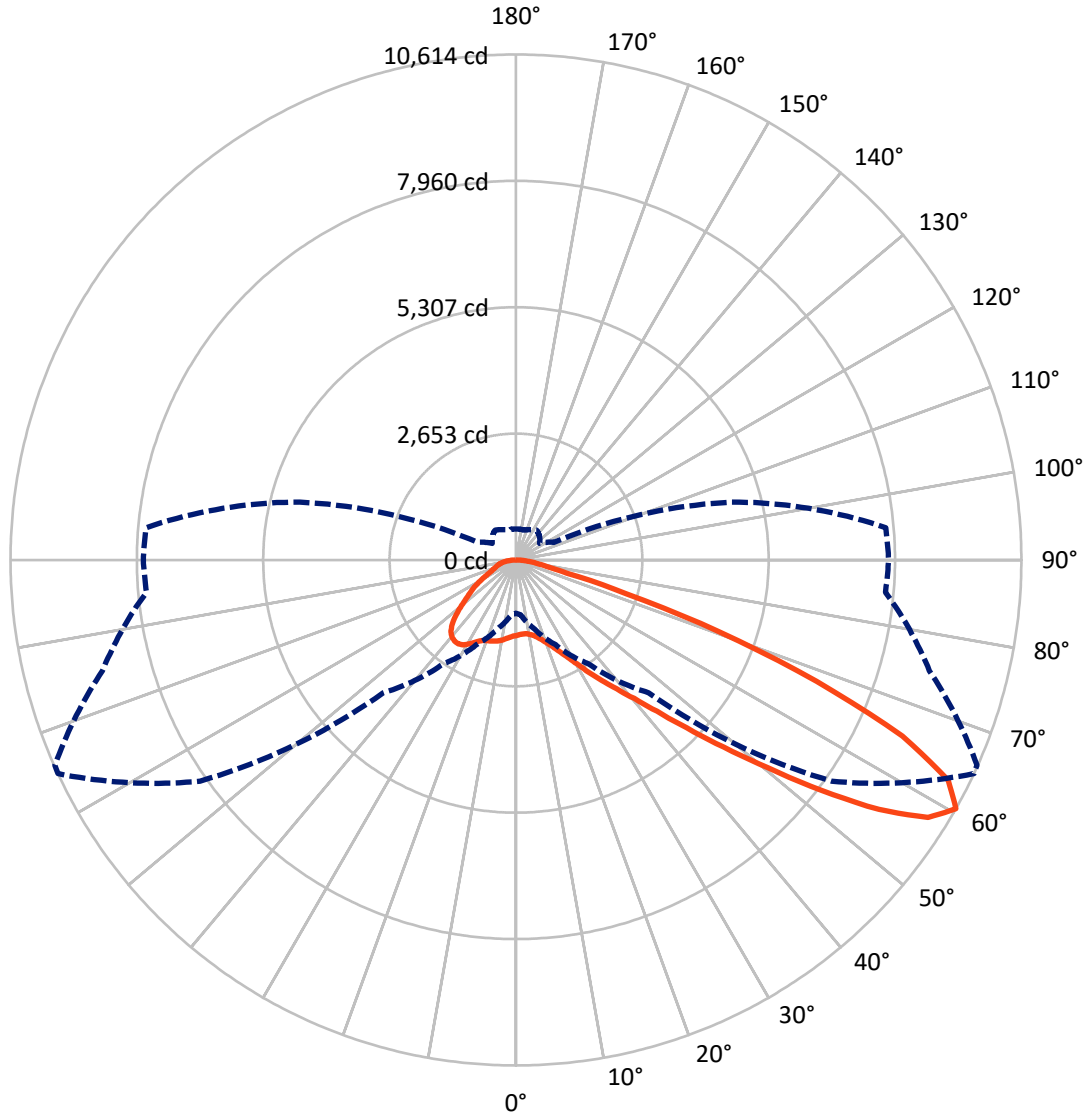
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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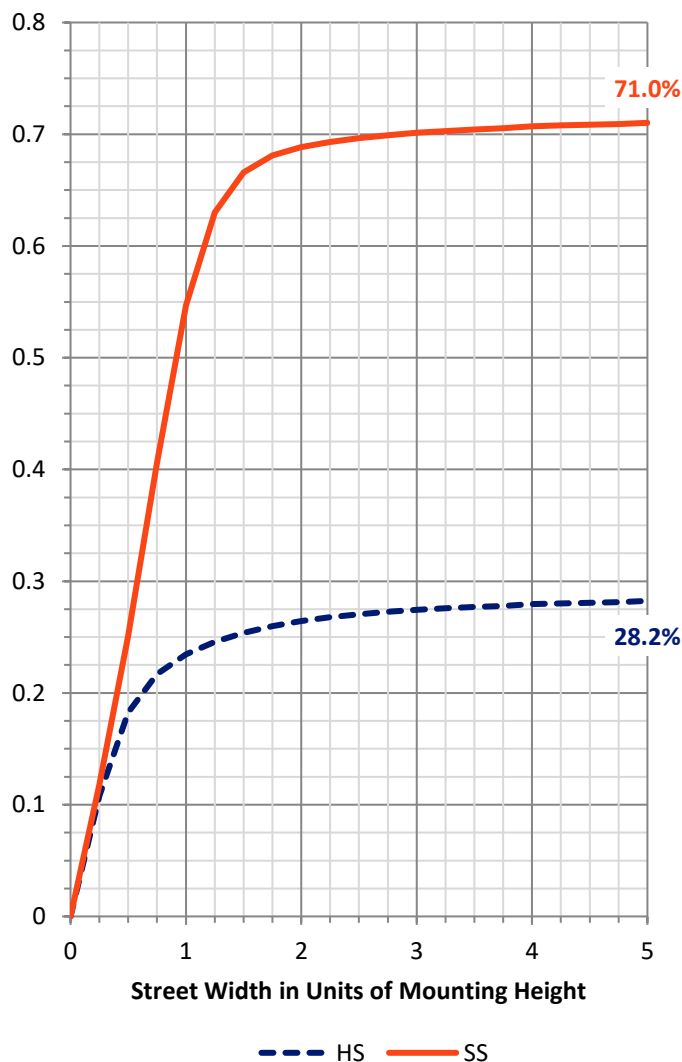
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3872.7	0.0	3872.7
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	9655.3	0.0	9655.3
	% Fixture	71.4	0.0	71.4
Total	Lumens	13528.0	0.0	13528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	1.1
10°-20°	493.5	3.6
20°-30°	946.1	7.0
30°-40°	1643.2	12.1
40°-50°	2786.8	20.6
50°-60°	3470.2	25.7
60°-70°	2796.3	20.7
70°-80°	1058.9	7.8
80°-90°	179.6	1.3
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°	13528.0	100.0
0°-180°	13528.0	100.0

Coefficient of Utilization



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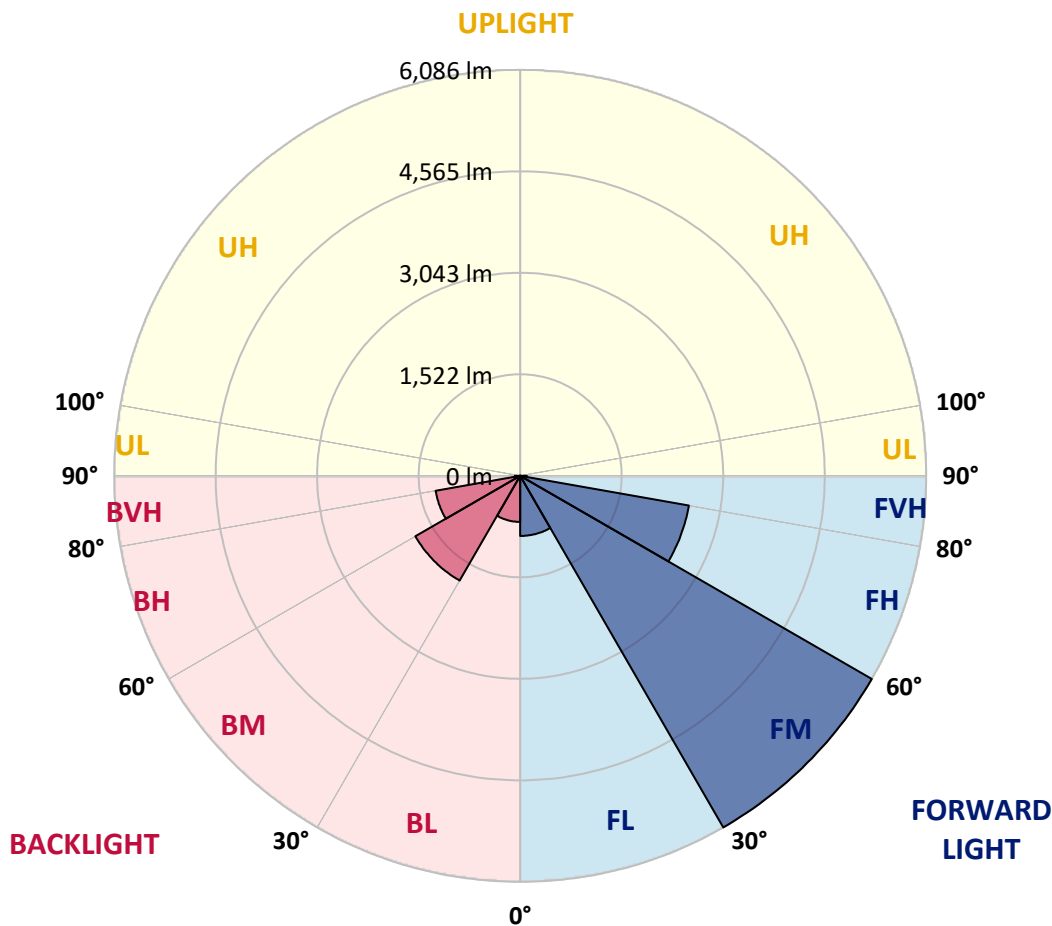
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.9	6.7			
FM (30°-60°)	6086.3	45.0			
FH (60°-80°)	2567.6	19.0			G2/5000
FVH (80°-90°)	99.6	0.7			G1/100
BL (0°-30°)	691.2	5.1	B2/1000		
BM (30°-60°)	1813.9	13.4	B2/2500		
BH (60°-80°)	1287.7	9.5	B3/2500		G3/2500
BVH (80°-90°)	80.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2
2.5°	1550.2	1550.2	1550.2	1553.9	1557.6	1561.3	1568.7	1568.7	1568.7	1572.4	1579.8
5°	1520.5	1516.8	1520.5	1524.2	1531.6	1539.0	1553.9	1561.3	1561.3	1576.1	1590.9
7.5°	1524.2	1516.8	1516.8	1520.5	1527.9	1535.3	1550.2	1561.3	1565.0	1583.5	1609.5
10°	1561.3	1550.2	1550.2	1553.9	1553.9	1561.3	1572.4	1587.2	1590.9	1609.5	1635.5
12.5°	1639.2	1628.0	1624.3	1613.2	1602.1	1609.5	1620.6	1624.3	1628.0	1639.2	1665.1
15°	1802.3	1783.8	1754.1	1731.9	1702.2	1683.7	1680.0	1683.7	1683.7	1687.4	1702.2
17.5°	2036.0	2013.7	1969.2	1921.0	1850.5	1791.2	1772.7	1757.8	1757.8	1746.7	1746.7
20°	2321.5	2288.1	2236.2	2165.8	2061.9	1954.4	1891.3	1858.0	1846.8	1828.3	1802.3
22.5°	2651.6	2629.3	2562.6	2455.0	2299.3	2154.6	2050.8	1976.6	1976.6	1932.1	1876.5
25°	3041.0	3000.2	2922.3	2796.2	2584.8	2377.2	2236.2	2128.7	2117.6	2047.1	1958.1
27.5°	3419.2	3393.3	3296.9	3130.0	2877.8	2636.7	2440.2	2314.1	2295.6	2184.3	2047.1
30°	3879.1	3849.4	3704.8	3471.2	3200.4	2926.0	2696.1	2532.9	2514.4	2362.3	2169.5
32.5°	4450.2	4350.1	4172.1	3905.1	3556.5	3248.7	2985.3	2811.0	2788.8	2614.5	2384.6
35°	5143.7	5058.4	4750.6	4468.8	4053.4	3649.2	3333.9	3104.0	3074.4	2866.7	2577.4
37.5°	5633.2	5592.4	5381.0	5158.5	4683.8	4138.7	3753.0	3434.1	3404.4	3130.0	2755.4
40°	5941.0	5900.2	5840.9	5777.9	5514.6	4898.9	4257.4	3823.5	3775.3	3515.7	3111.4
42.5°	6100.5	6067.1	6078.2	6204.3	6278.5	6182.1	4976.8	4342.7	4309.3	3994.1	3545.3
45°	6007.8	5985.5	6093.1	6426.8	6790.3	7502.3	5900.2	5025.0	4936.0	4561.5	4071.9
47.5°	5562.8	5496.0	5748.2	6315.6	7094.4	8132.8	7012.8	5866.9	5770.4	5232.7	4606.0
50°	4646.8	4628.2	4973.1	5692.6	6975.7	8381.2	8203.2	6860.7	6790.3	5955.9	5199.3
52.5°	3793.8	3786.4	4053.4	4713.5	6219.2	8206.9	9067.3	8043.8	7832.4	6682.7	5844.6
55°	2944.6	2940.8	3178.2	3671.4	4962.0	7387.3	9475.2	9249.0	9093.3	7476.4	6508.4
57.5°	2013.7	1987.8	2295.6	2670.1	3727.1	5852.0	9208.2	10202.1	10105.7	8318.2	7213.0
60°	1120.0	1157.1	1498.2	1961.8	2666.4	3942.1	8095.7	10613.7	10598.9	8989.4	7787.9
62.5°	793.6	808.5	953.1	1394.4	1754.1	2258.5	6245.1	10187.3	10305.9	9360.3	8114.2
65°	660.1	667.5	738.0	1031.0	1283.1	1305.4	3893.9	8922.7	9078.4	9245.3	8184.7
67.5°	623.0	626.7	663.8	760.2	1005.0	945.7	1739.3	6812.5	7142.6	8318.2	7724.8
70°	567.4	571.1	626.7	671.2	812.2	745.4	893.8	4524.4	4969.4	6575.2	6660.5
72.5°	485.8	496.9	541.4	630.4	660.1	619.3	689.8	2417.9	2859.3	4398.3	5143.7
75°	419.1	426.5	459.9	534.0	619.3	493.2	585.9	1101.4	1290.6	2581.1	3256.1
77.5°	337.5	341.2	389.4	437.6	519.2	400.5	456.1	660.1	693.5	1260.9	1472.3
80°	255.9	255.9	289.3	348.6	385.7	385.7	333.8	459.9	478.4	600.8	582.2
82.5°	196.6	192.8	218.8	244.8	278.1	322.6	252.2	304.1	311.5	363.4	311.5
85°	129.8	129.8	144.6	166.9	185.4	178.0	196.6	178.0	185.4	226.2	170.6
87.5°	55.6	55.6	77.9	74.2	81.6	85.3	96.4	85.3	85.3	103.8	77.9
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°	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2	1587.2
2.5°	1583.5	1587.2	1594.7	1598.4	1609.5	1613.2	1613.2	1620.6	1620.6	1628.0	1628.0
5°	1594.7	1605.8	1616.9	1628.0	1639.2	1642.9	1650.3	1654.0	1654.0	1661.4	1657.7
7.5°	1616.9	1628.0	1650.3	1661.4	1676.2	1683.7	1680.0	1683.7	1680.0	1683.7	1683.7
10°	1646.6	1661.4	1687.4	1702.2	1713.3	1717.0	1705.9	1694.8	1680.0	1680.0	1680.0
12.5°	1680.0	1691.1	1724.5	1735.6	1743.0	1731.9	1702.2	1680.0	1668.8	1672.5	1668.8
15°	1713.3	1724.5	1750.4	1761.5	1761.5	1728.2	1702.2	1694.8	1691.1	1694.8	1694.8
17.5°	1746.7	1757.8	1780.1	1780.1	1769.0	1743.0	1717.0	1691.1	1672.5	1661.4	1661.4
20°	1791.2	1791.2	1798.6	1798.6	1794.9	1754.1	1691.1	1628.0	1590.9	1568.7	1565.0
22.5°	1850.5	1835.7	1820.9	1820.9	1835.7	1728.2	1605.8	1509.4	1450.0	1442.6	1427.8
25°	1913.6	1880.2	1843.1	1869.1	1843.1	1661.4	1487.1	1357.3	1286.9	1260.9	1268.3
27.5°	1980.3	1928.4	1872.8	1947.0	1806.0	1531.6	1320.2	1175.6	1108.8	1090.3	1090.3
30°	2073.1	1995.2	1913.6	2028.6	1735.6	1383.3	1123.7	1019.8	982.8	967.9	964.2
32.5°	2251.1	2132.4	2013.7	2102.7	1657.7	1190.4	990.2	927.1	882.6	867.8	878.9
35°	2410.5	2243.6	2165.8	2136.1	1535.3	1034.7	908.6	853.0	815.9	797.3	797.3
37.5°	2555.2	2395.7	2336.4	2136.1	1375.9	938.3	856.7	812.2	764.0	749.1	749.1
40°	2870.4	2659.0	2555.2	2106.4	1179.3	890.0	830.7	778.8	738.0	723.2	719.5
42.5°	3304.3	3018.7	2781.4	2039.7	1012.4	867.8	815.9	756.5	723.2	712.0	708.3
45°	3764.1	3512.0	2996.5	1921.0	904.9	845.5	812.2	749.1	708.3	697.2	693.5
47.5°	4320.4	4060.8	3244.9	1739.3	830.7	830.7	808.5	738.0	700.9	689.8	689.8
50°	4936.0	4720.9	3560.2	1531.6	775.1	819.6	801.0	738.0	697.2	686.1	682.4
52.5°	5566.5	5466.3	3890.2	1327.6	719.5	804.7	797.3	738.0	689.8	678.7	678.7
55°	6367.5	6285.9	4272.2	1175.6	674.9	775.1	797.3	730.6	678.7	671.2	671.2
57.5°	7153.7	7124.0	4568.9	1042.1	641.6	738.0	786.2	719.5	667.5	663.8	663.8
60°	7825.0	7795.3	4695.0	875.2	608.2	700.9	764.0	700.9	649.0	652.7	652.7
62.5°	8240.3	8069.7	4602.3	723.2	574.8	667.5	738.0	678.7	630.4	641.6	637.9
65°	8314.5	7917.7	4242.5	604.5	537.7	630.4	708.3	652.7	604.5	630.4	626.7
67.5°	7769.3	7109.2	3567.6	526.6	500.6	589.7	674.9	615.6	574.8	611.9	600.8
70°	6590.0	5774.1	2640.5	467.3	463.6	541.4	630.4	571.1	534.0	552.6	537.7
72.5°	4906.4	4168.4	1709.6	422.8	422.8	485.8	567.4	515.5	478.4	482.1	467.3
75°	3059.5	2562.6	971.6	382.0	382.0	430.2	504.4	452.4	426.5	411.6	430.2
77.5°	1390.7	1127.4	511.8	341.2	344.9	367.1	433.9	385.7	356.0	333.8	344.9
80°	515.5	459.9	333.8	293.0	300.4	304.1	348.6	307.8	281.8	267.0	259.6
82.5°	267.0	248.5	226.2	233.6	244.8	233.6	270.7	229.9	200.3	189.1	159.5
85°	133.5	129.8	137.2	155.8	170.6	144.6	163.2	148.3	122.4	89.0	89.0
87.5°	51.9	55.6	51.9	70.5	77.9	66.8	74.2	51.9	37.1	18.5	14.8
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)