

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: P572890

Luminaire Tested: **ARCH-S-PA2-130-727-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572890  
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-PA2-130-727-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

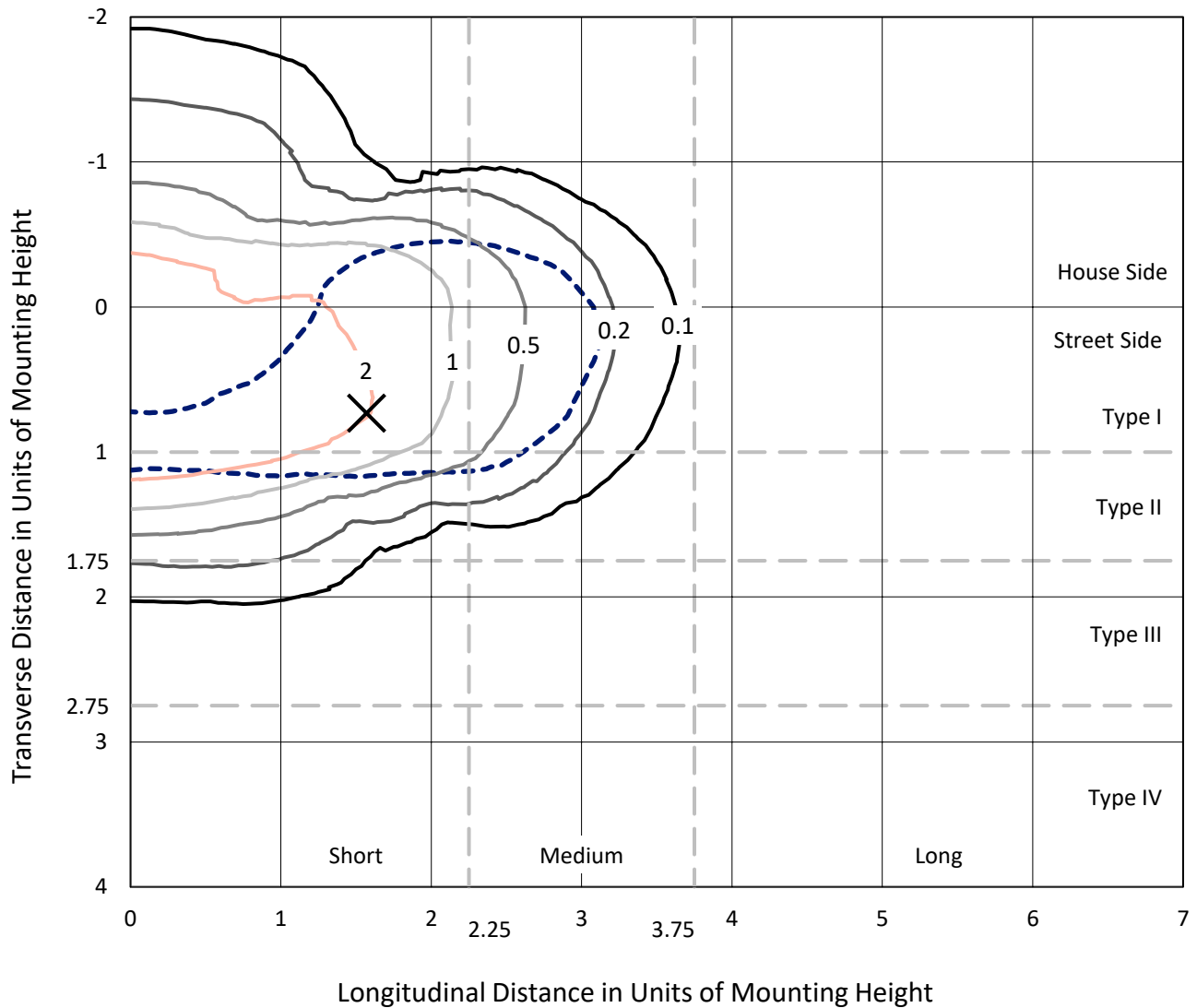
Lumens per Lamp: N/A  
Luminaire Lumens: 13393 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

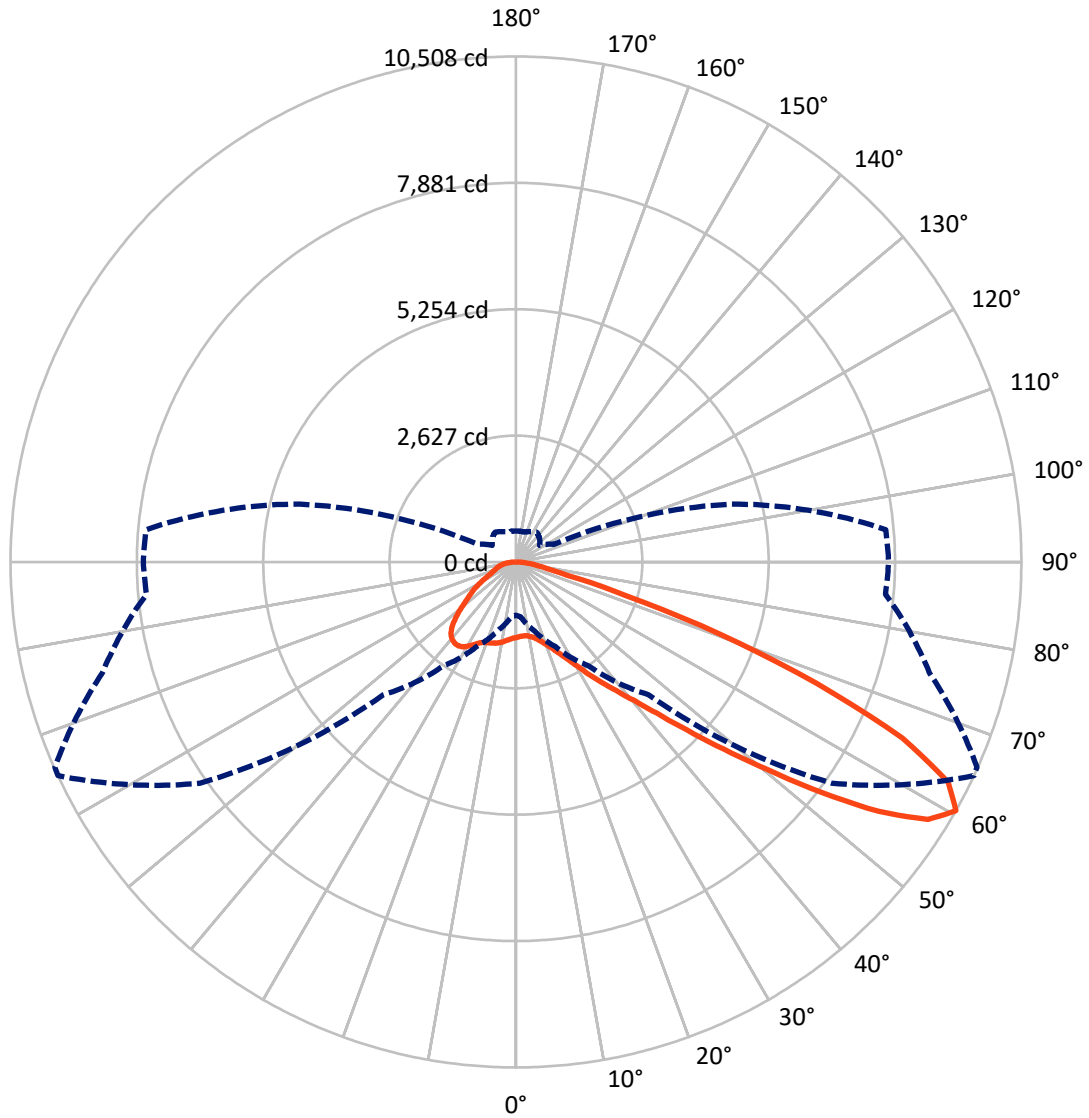
✕ Max cd  
 - - - 1/2 Max cd



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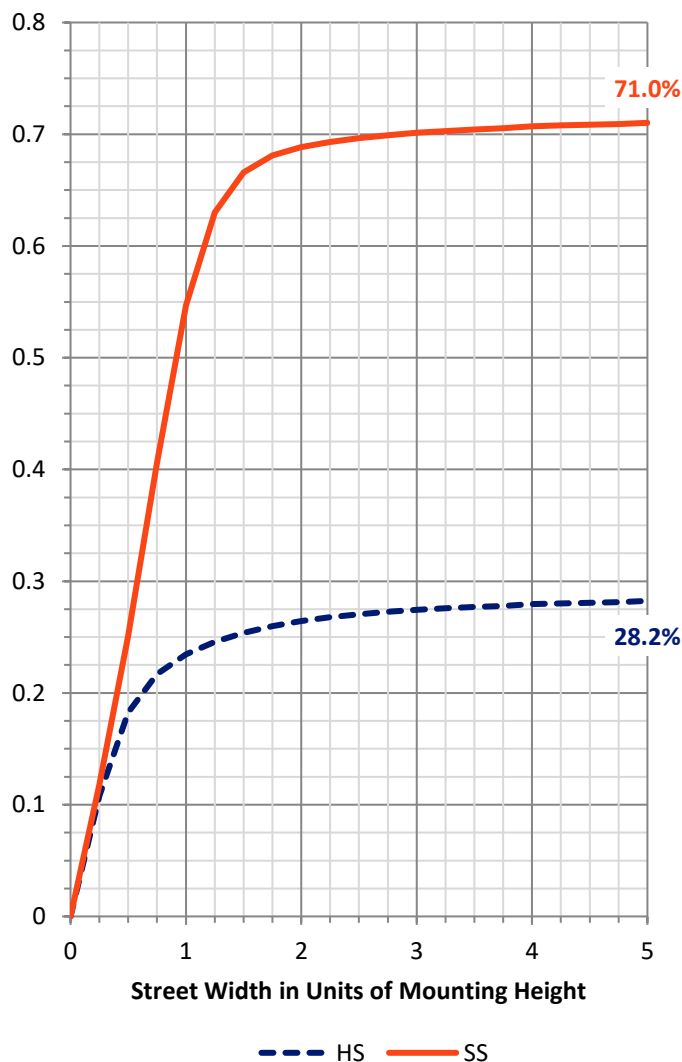
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3834.0	0.0	3834.0
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	9559.0	0.0	9559.0
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	13393.0	0.0	13393.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.8	1.1
10°-20°	488.6	3.6
20°-30°	936.7	7.0
30°-40°	1626.8	12.1
40°-50°	2759.0	20.6
50°-60°	3435.5	25.7
60°-70°	2768.4	20.7
70°-80°	1048.3	7.8
80°-90°	177.8	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°	13393.0	100.0
0°-180°	13393.0	100.0

**Coefficient of Utilization**

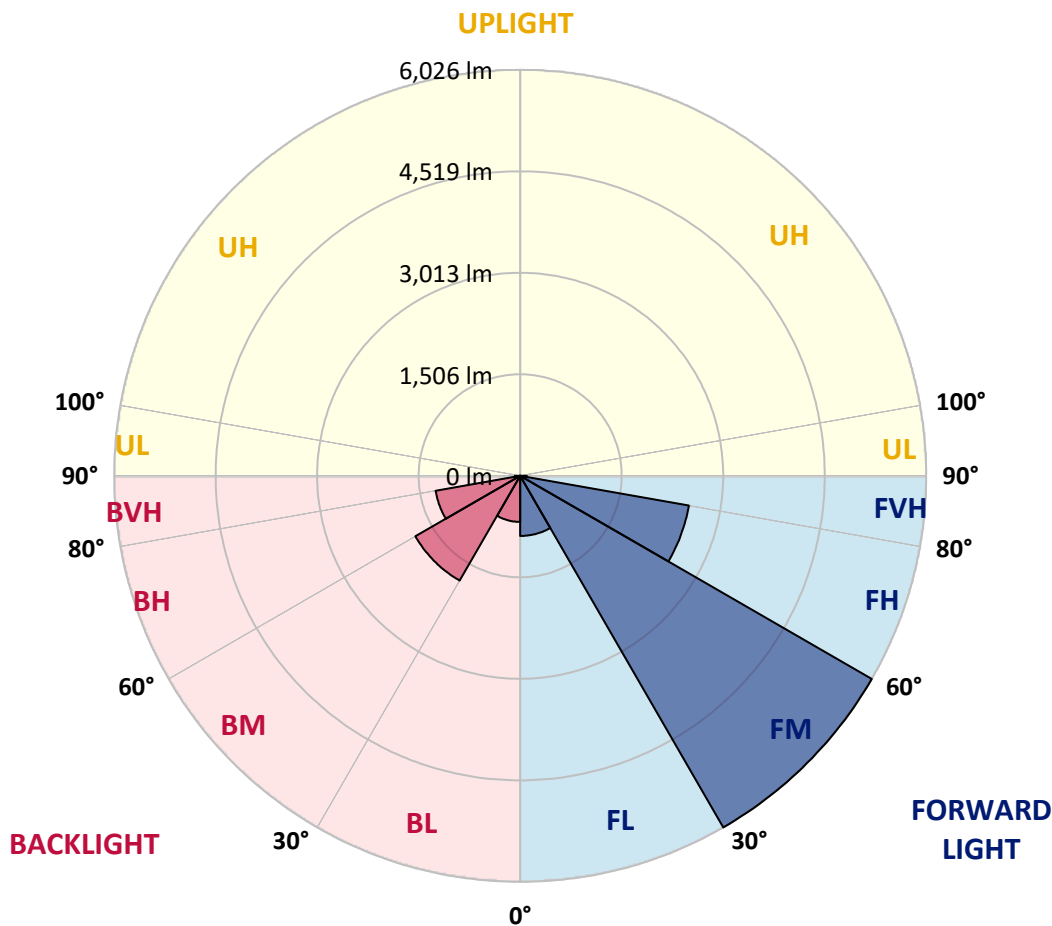


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.9	6.7			
FM (30°-60°)	6025.5	45.0			
FH (60°-80°)	2541.9	19.0			G2/5000
FVH (80°-90°)	98.6	0.7			G1/100
BL (0°-30°)	684.3	5.1	B2/1000		
BM (30°-60°)	1795.8	13.4	B2/2500		
BH (60°-80°)	1274.8	9.5	B3/2500		G3/2500
BVH (80°-90°)	79.2	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°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1534.7	1534.7	1534.7	1538.4	1542.0	1545.7	1553.0	1553.0	1553.0	1556.7	1564.1
5°	1505.3	1501.6	1505.3	1509.0	1516.3	1523.7	1538.4	1545.7	1545.7	1560.4	1575.1
7.5°	1509.0	1501.6	1501.6	1505.3	1512.7	1520.0	1534.7	1545.7	1549.4	1567.7	1593.4
10°	1545.7	1534.7	1534.7	1538.4	1538.4	1545.7	1556.7	1571.4	1575.1	1593.4	1619.1
12.5°	1622.8	1611.8	1608.1	1597.1	1586.1	1593.4	1604.4	1608.1	1611.8	1622.8	1648.5
15°	1784.3	1766.0	1736.6	1714.6	1685.2	1666.9	1663.2	1666.9	1666.9	1670.5	1685.2
17.5°	2015.7	1993.6	1949.6	1901.8	1832.1	1773.3	1755.0	1740.3	1740.3	1729.3	1729.3
20°	2298.4	2265.3	2213.9	2144.2	2041.4	1934.9	1872.5	1839.4	1828.4	1810.0	1784.3
22.5°	2625.1	2603.1	2537.0	2430.5	2276.3	2133.1	2030.3	1956.9	1956.9	1912.9	1857.8
25°	3010.6	2970.2	2893.1	2768.3	2559.0	2353.4	2213.9	2107.4	2096.4	2026.7	1938.6
27.5°	3385.1	3359.4	3264.0	3098.7	2849.1	2610.4	2415.8	2291.0	2272.7	2162.5	2026.7
30°	3840.4	3811.0	3667.8	3436.5	3168.5	2896.8	2669.2	2507.6	2489.3	2338.7	2147.8
32.5°	4405.8	4306.7	4130.4	3866.1	3521.0	3216.2	2955.6	2783.0	2761.0	2588.4	2360.8
35°	5092.4	5007.9	4703.2	4424.2	4012.9	3612.8	3300.7	3073.0	3043.7	2838.1	2551.7
37.5°	5577.0	5536.6	5327.3	5107.1	4637.1	4097.4	3715.6	3399.8	3370.4	3098.7	2727.9
40°	5881.7	5841.4	5782.6	5720.2	5459.5	4850.1	4214.9	3785.3	3737.6	3480.6	3080.4
42.5°	6039.6	6006.6	6017.6	6142.4	6215.8	6120.4	4927.2	4299.3	4266.3	3954.2	3510.0
45°	5947.8	5925.8	6032.3	6362.7	6722.5	7427.4	5841.4	4974.9	4886.8	4515.9	4031.3
47.5°	5507.2	5441.2	5690.8	6252.6	7023.6	8051.6	6942.8	5808.3	5712.9	5180.5	4560.0
50°	4600.4	4582.0	4923.5	5635.8	6906.1	8297.6	8121.4	6792.3	6722.5	5896.4	5147.4
52.5°	3755.9	3748.6	4012.9	4666.5	6157.1	8125.0	8976.8	7963.5	7754.2	6616.0	5786.3
55°	2915.2	2911.5	3146.5	3634.8	4912.5	7313.6	9380.7	9156.7	9002.5	7401.7	6443.5
57.5°	1993.6	1967.9	2272.7	2643.5	3689.9	5793.6	9116.3	10100.3	10004.8	8235.2	7141.1
60°	1108.8	1145.5	1483.3	1942.2	2639.8	3902.8	8014.9	10507.8	10493.1	8899.7	7710.1
62.5°	785.7	800.4	943.6	1380.5	1736.6	2235.9	6182.8	10085.6	10203.1	9266.9	8033.2
65°	653.5	660.9	730.6	1020.7	1270.3	1292.4	3855.1	8833.6	8987.8	9153.0	8103.0
67.5°	616.8	620.5	657.2	752.7	995.0	936.2	1721.9	6744.5	7071.3	8235.2	7647.7
70°	561.7	565.4	620.5	664.5	804.1	738.0	884.8	4479.2	4919.8	6509.6	6594.0
72.5°	481.0	492.0	536.0	624.2	653.5	613.1	682.9	2393.8	2830.7	4354.4	5092.4
75°	414.9	422.2	455.3	528.7	613.1	488.3	580.1	1090.4	1277.7	2555.4	3223.6
77.5°	334.1	337.8	385.5	433.2	514.0	396.5	451.6	653.5	686.6	1248.3	1457.6
80°	253.3	253.3	286.4	345.1	381.8	381.8	330.4	455.3	473.6	594.8	576.4
82.5°	194.6	190.9	216.6	242.3	275.4	319.4	249.7	301.1	308.4	359.8	308.4
85°	128.5	128.5	143.2	165.2	183.6	176.2	194.6	176.2	183.6	224.0	168.9
87.5°	55.1	55.1	77.1	73.4	80.8	84.4	95.5	84.4	84.4	102.8	77.1
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°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1567.7	1571.4	1578.7	1582.4	1593.4	1597.1	1597.1	1604.4	1604.4	1611.8	1611.8
5°	1578.7	1589.8	1600.8	1611.8	1622.8	1626.5	1633.8	1637.5	1637.5	1644.8	1641.2
7.5°	1600.8	1611.8	1633.8	1644.8	1659.5	1666.9	1663.2	1666.9	1663.2	1666.9	1666.9
10°	1630.1	1644.8	1670.5	1685.2	1696.2	1699.9	1688.9	1677.9	1663.2	1663.2	1663.2
12.5°	1663.2	1674.2	1707.2	1718.3	1725.6	1714.6	1685.2	1663.2	1652.2	1655.8	1652.2
15°	1696.2	1707.2	1732.9	1744.0	1744.0	1710.9	1685.2	1677.9	1674.2	1677.9	1677.9
17.5°	1729.3	1740.3	1762.3	1762.3	1751.3	1725.6	1699.9	1674.2	1655.8	1644.8	1644.8
20°	1773.3	1773.3	1780.7	1780.7	1777.0	1736.6	1674.2	1611.8	1575.1	1553.0	1549.4
22.5°	1832.1	1817.4	1802.7	1802.7	1817.4	1710.9	1589.8	1494.3	1435.6	1428.2	1413.5
25°	1894.5	1861.5	1824.7	1850.4	1824.7	1644.8	1472.3	1343.8	1274.0	1248.3	1255.7
27.5°	1960.6	1909.2	1854.1	1927.5	1788.0	1516.3	1307.1	1163.9	1097.8	1079.4	1079.4
30°	2052.4	1975.3	1894.5	2008.3	1718.3	1369.5	1112.5	1009.7	972.9	958.3	954.6
32.5°	2228.6	2111.1	1993.6	2081.7	1641.2	1178.6	980.3	917.9	873.8	859.1	870.1
35°	2386.5	2221.3	2144.2	2114.8	1520.0	1024.3	899.5	844.4	807.7	789.4	789.4
37.5°	2529.7	2371.8	2313.0	2114.8	1362.1	928.9	848.1	804.1	756.3	741.6	741.6
40°	2841.7	2632.5	2529.7	2085.4	1167.5	881.2	822.4	771.0	730.6	715.9	712.3
42.5°	3271.3	2988.6	2753.6	2019.3	1002.3	859.1	807.7	749.0	715.9	704.9	701.3
45°	3726.6	3476.9	2966.6	1901.8	895.8	837.1	804.1	741.6	701.3	690.2	686.6
47.5°	4277.3	4020.3	3212.6	1721.9	822.4	822.4	800.4	730.6	693.9	682.9	682.9
50°	4886.8	4673.8	3524.6	1516.3	767.3	811.4	793.0	730.6	690.2	679.2	675.6
52.5°	5510.9	5411.8	3851.4	1314.4	712.3	796.7	789.4	730.6	682.9	671.9	671.9
55°	6304.0	6223.2	4229.6	1163.9	668.2	767.3	789.4	723.3	671.9	664.5	664.5
57.5°	7082.3	7053.0	4523.3	1031.7	635.2	730.6	778.4	712.3	660.9	657.2	657.2
60°	7746.9	7717.5	4648.1	866.5	602.1	693.9	756.3	693.9	642.5	646.2	646.2
62.5°	8158.1	7989.2	4556.3	715.9	569.1	660.9	730.6	671.9	624.2	635.2	631.5
65°	8231.5	7838.7	4200.2	598.5	532.4	624.2	701.3	646.2	598.5	624.2	620.5
67.5°	7691.8	7038.3	3532.0	521.4	495.7	583.8	668.2	609.5	569.1	605.8	594.8
70°	6524.3	5716.5	2614.1	462.6	458.9	536.0	624.2	565.4	528.7	547.1	532.4
72.5°	4857.4	4126.8	1692.6	418.6	418.6	481.0	561.7	510.3	473.6	477.3	462.6
75°	3029.0	2537.0	961.9	378.2	378.2	425.9	499.3	447.9	422.2	407.5	425.9
77.5°	1376.8	1116.1	506.7	337.8	341.4	363.5	429.6	381.8	352.5	330.4	341.4
80°	510.3	455.3	330.4	290.0	297.4	301.1	345.1	304.7	279.0	264.3	257.0
82.5°	264.3	246.0	224.0	231.3	242.3	231.3	268.0	227.6	198.3	187.2	157.9
85°	132.2	128.5	135.8	154.2	168.9	143.2	161.5	146.9	121.2	88.1	88.1
87.5°	51.4	55.1	51.4	69.8	77.1	66.1	73.4	51.4	36.7	18.4	14.7
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)