

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: P572935

Luminaire Tested: **ARCH-S-PA2-130-760-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572935  
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-PA2-130-760-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 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: 16014 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

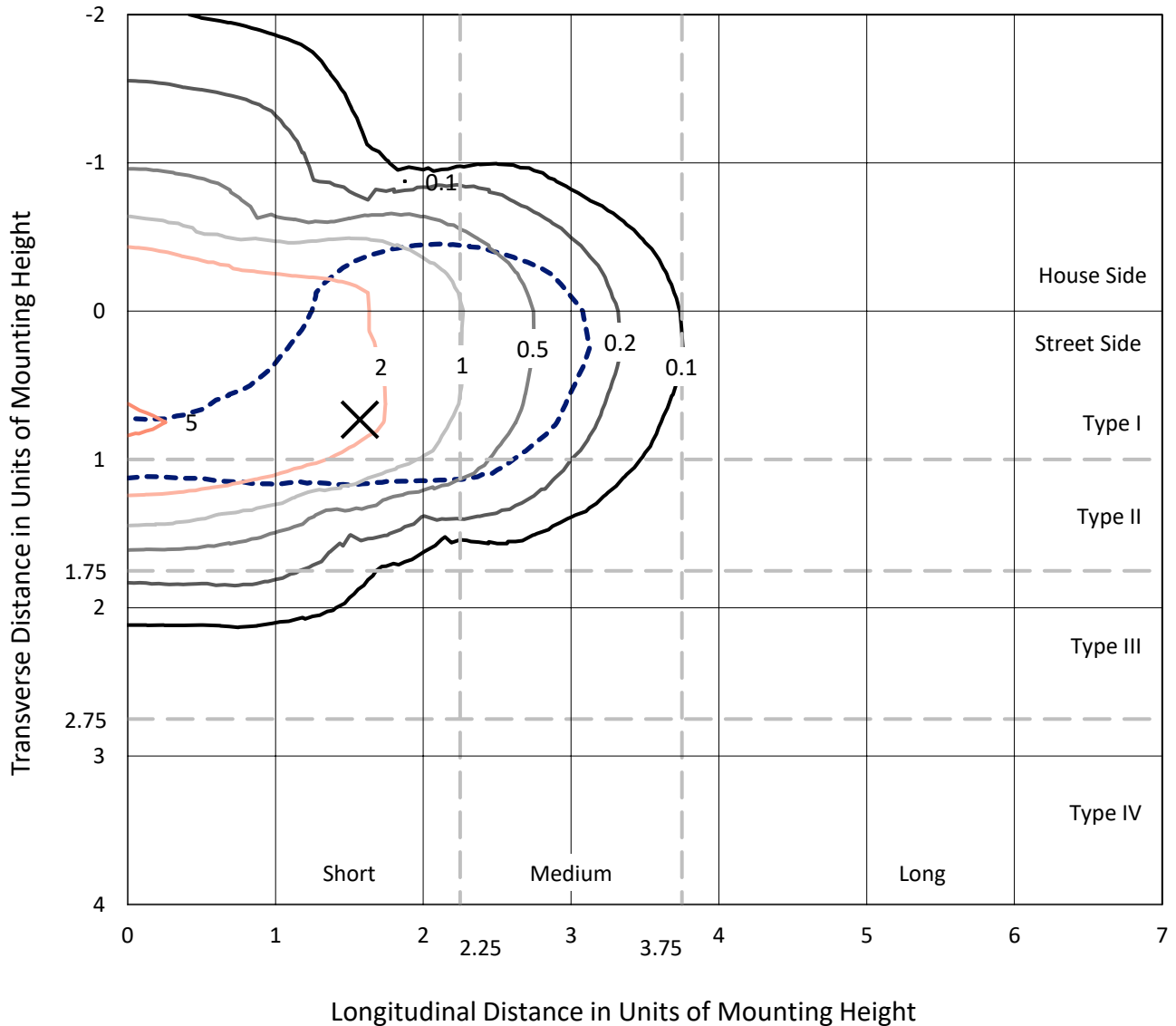
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

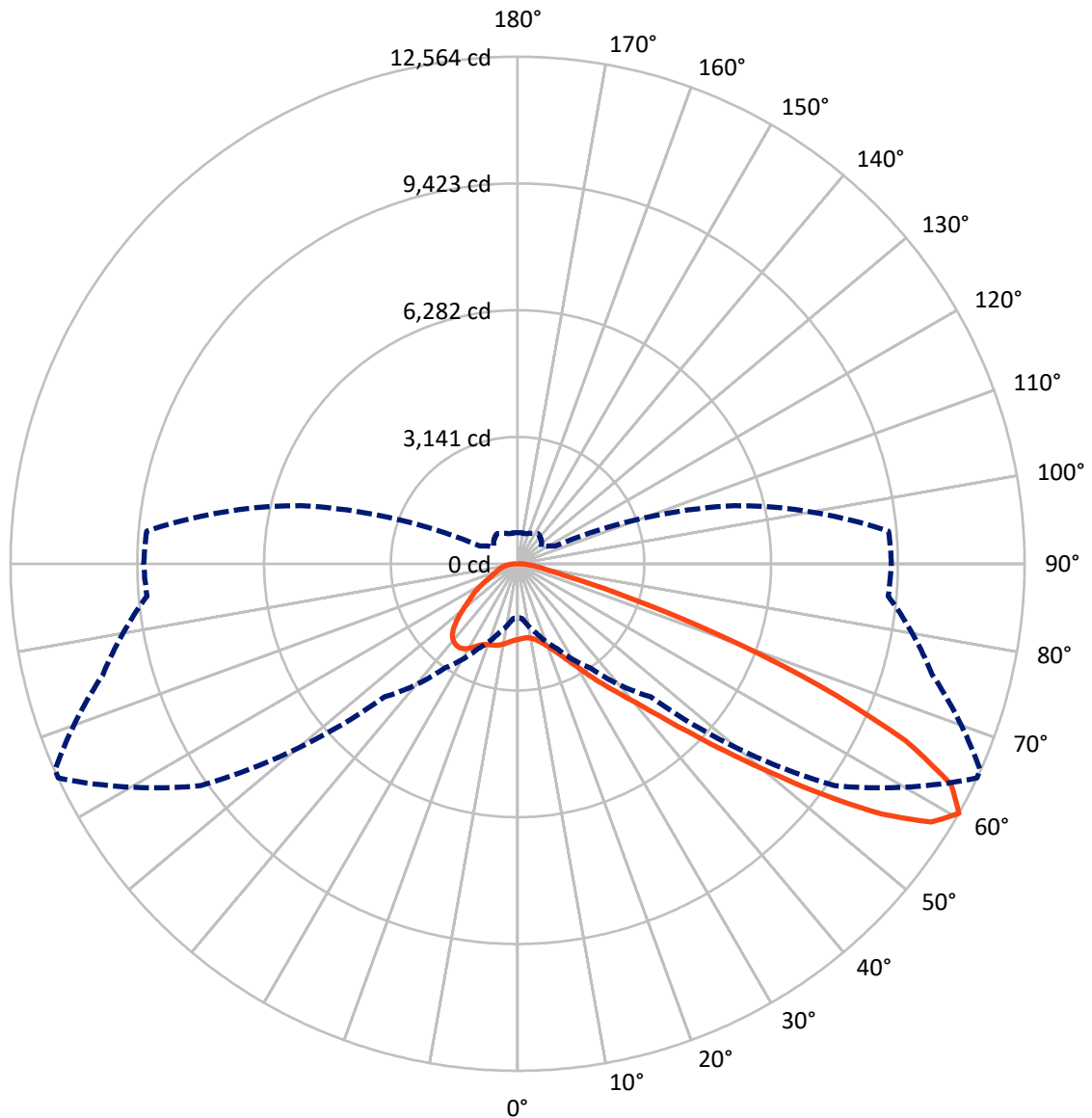
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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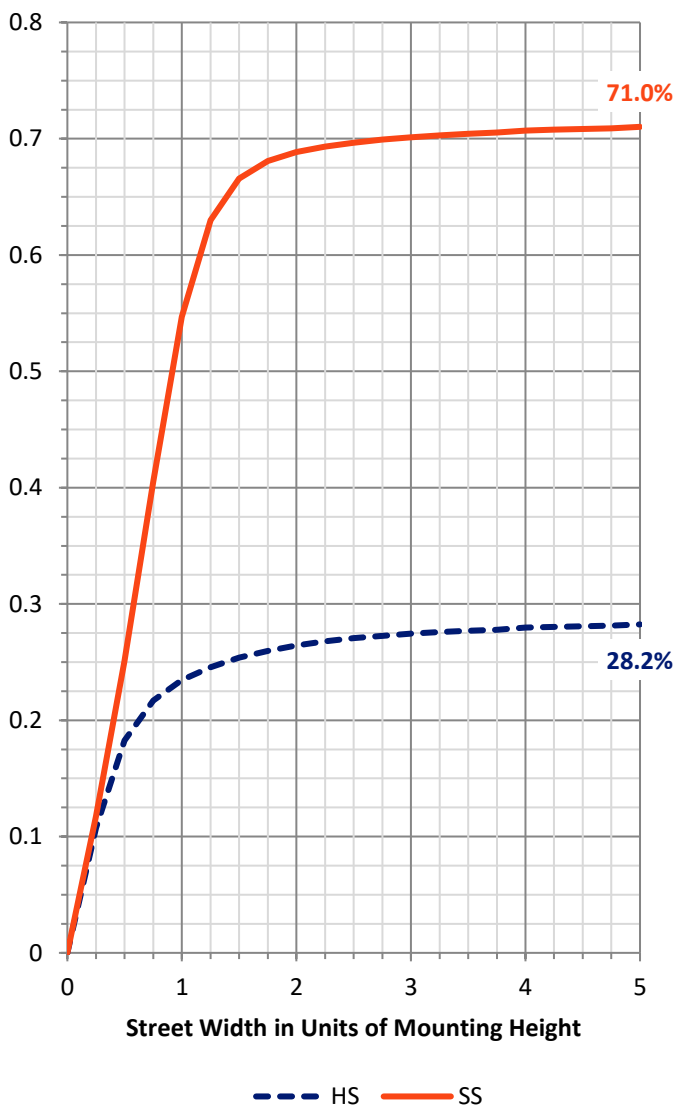
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4584.4	0.0	4584.4
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	11429.6	0.0	11429.6
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	16014.0	0.0	16014.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.5	1.1
10°-20°	584.2	3.6
20°-30°	1120.0	7.0
30°-40°	1945.1	12.1
40°-50°	3298.9	20.6
50°-60°	4107.9	25.7
60°-70°	3310.2	20.7
70°-80°	1253.5	7.8
80°-90°	212.6	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°	16014.0	100.0
0°-180°	16014.0	100.0

**Coefficient of Utilization**



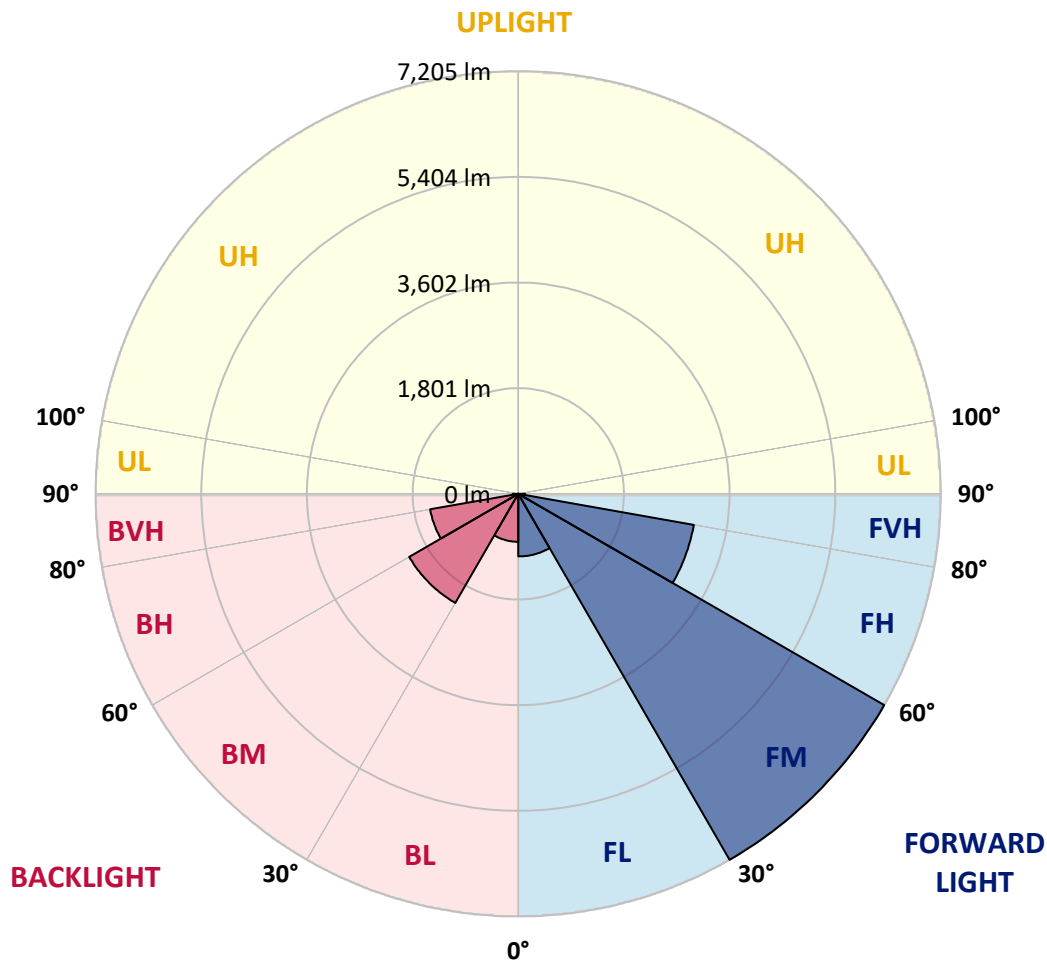
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.6	6.7			
FM (30°-60°)	7204.7	45.0			
FH (60°-80°)	3039.4	19.0			G2/5000
FVH (80°-90°)	117.9	0.7			G2/225
BL (0°-30°)	818.2	5.1	B2/1000		
BM (30°-60°)	2147.2	13.4	B2/2500		
BH (60°-80°)	1524.3	9.5	B3/2500		G3/2500
BVH (80°-90°)	94.7	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°	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9
2.5°	1835.0	1835.0	1835.0	1839.4	1843.8	1848.2	1857.0	1857.0	1857.0	1861.4	1870.1
5°	1799.9	1795.5	1799.9	1804.3	1813.1	1821.9	1839.4	1848.2	1848.2	1865.8	1883.3
7.5°	1804.3	1795.5	1795.5	1799.9	1808.7	1817.5	1835.0	1848.2	1852.6	1874.5	1905.3
10°	1848.2	1835.0	1835.0	1839.4	1839.4	1848.2	1861.4	1878.9	1883.3	1905.3	1936.0
12.5°	1940.4	1927.2	1922.8	1909.7	1896.5	1905.3	1918.4	1922.8	1927.2	1940.4	1971.1
15°	2133.5	2111.6	2076.5	2050.1	2015.0	1993.1	1988.7	1993.1	1993.1	1997.5	2015.0
17.5°	2410.1	2383.8	2331.1	2274.0	2190.6	2120.4	2098.4	2080.9	2080.9	2067.7	2067.7
20°	2748.1	2708.6	2647.2	2563.8	2440.8	2313.5	2238.9	2199.4	2186.2	2164.3	2133.5
22.5°	3138.9	3112.5	3033.5	2906.2	2721.8	2550.6	2427.7	2339.9	2339.9	2287.2	2221.3
25°	3599.8	3551.5	3459.3	3310.1	3059.8	2814.0	2647.2	2519.9	2506.7	2423.3	2317.9
27.5°	4047.6	4016.9	3902.7	3705.2	3406.6	3121.3	2888.6	2739.4	2717.4	2585.7	2423.3
30°	4591.9	4556.8	4385.6	4109.0	3788.6	3463.7	3191.5	2998.4	2976.4	2796.4	2568.2
32.5°	5268.0	5149.5	4938.8	4622.7	4210.0	3845.6	3534.0	3327.6	3301.3	3095.0	2822.8
35°	6088.9	5988.0	5623.6	5290.0	4798.3	4319.8	3946.6	3674.4	3639.3	3393.5	3051.1
37.5°	6668.4	6620.1	6369.9	6106.5	5544.6	4899.2	4442.7	4065.1	4030.0	3705.2	3261.8
40°	7032.8	6984.5	6914.3	6839.6	6527.9	5799.2	5039.7	4526.1	4469.0	4161.7	3683.2
42.5°	7221.6	7182.1	7195.2	7344.5	7432.3	7318.1	5891.4	5140.7	5101.2	4728.0	4196.8
45°	7111.8	7085.5	7212.8	7607.9	8038.1	8881.0	6984.5	5948.5	5843.1	5399.7	4820.2
47.5°	6585.0	6506.0	6804.5	7476.2	8398.1	9627.3	8301.5	6945.0	6830.9	6194.3	5452.4
50°	5500.7	5478.7	5887.0	6738.7	8257.6	9921.4	9710.7	8121.5	8038.1	7050.4	6154.8
52.5°	4491.0	4482.2	4798.3	5579.7	7362.0	9715.1	10733.6	9521.9	9271.7	7910.8	6918.7
55°	3485.7	3481.3	3762.2	4346.1	5873.8	8744.9	11216.5	10948.7	10764.3	8850.3	7704.5
57.5°	2383.8	2353.0	2717.4	3160.8	4412.0	6927.4	10900.4	12076.9	11962.8	9846.8	8538.6
60°	1325.8	1369.7	1773.6	2322.3	3156.4	4666.6	9583.4	12564.2	12546.6	10641.4	9219.0
62.5°	939.5	957.0	1128.2	1650.6	2076.5	2673.5	7392.8	12059.4	12199.8	11080.4	9605.3
65°	781.4	790.2	873.6	1220.4	1518.9	1545.3	4609.5	10562.4	10746.7	10944.3	9688.7
67.5°	737.5	741.9	785.8	900.0	1189.7	1119.5	2058.9	8064.4	8455.2	9846.8	9144.4
70°	671.7	676.1	741.9	794.6	961.4	882.4	1058.0	5355.8	5882.6	7783.5	7884.5
72.5°	575.1	588.3	640.9	746.3	781.4	733.1	816.5	2862.3	3384.7	5206.6	6088.9
75°	496.1	504.9	544.4	632.2	733.1	583.9	693.6	1303.8	1527.7	3055.4	3854.4
77.5°	399.5	403.9	461.0	518.0	614.6	474.1	540.0	781.4	820.9	1492.6	1742.8
80°	302.9	302.9	342.4	412.7	456.6	456.6	395.1	544.4	566.3	711.2	689.2
82.5°	232.7	228.3	259.0	289.7	329.3	381.9	298.5	360.0	368.8	430.2	368.8
85°	153.7	153.7	171.2	197.6	219.5	210.7	232.7	210.7	219.5	267.8	201.9
87.5°	65.9	65.9	92.2	87.8	96.6	101.0	114.1	101.0	101.0	122.9	92.2
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°	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9
2.5°	1874.5	1878.9	1887.7	1892.1	1905.3	1909.7	1909.7	1918.4	1918.4	1927.2	1927.2
5°	1887.7	1900.9	1914.0	1927.2	1940.4	1944.8	1953.6	1957.9	1957.9	1966.7	1962.3
7.5°	1914.0	1927.2	1953.6	1966.7	1984.3	1993.1	1988.7	1993.1	1988.7	1993.1	1993.1
10°	1949.2	1966.7	1997.5	2015.0	2028.2	2032.6	2019.4	2006.2	1988.7	1988.7	1988.7
12.5°	1988.7	2001.8	2041.4	2054.5	2063.3	2050.1	2015.0	1988.7	1975.5	1979.9	1975.5
15°	2028.2	2041.4	2072.1	2085.3	2085.3	2045.7	2015.0	2006.2	2001.8	2006.2	2006.2
17.5°	2067.7	2080.9	2107.2	2107.2	2094.0	2063.3	2032.6	2001.8	1979.9	1966.7	1966.7
20°	2120.4	2120.4	2129.2	2129.2	2124.8	2076.5	2001.8	1927.2	1883.3	1857.0	1852.6
22.5°	2190.6	2173.1	2155.5	2155.5	2173.1	2045.7	1900.9	1786.7	1716.5	1707.7	1690.2
25°	2265.2	2225.7	2181.8	2212.6	2181.8	1966.7	1760.4	1606.7	1523.3	1492.6	1501.4
27.5°	2344.3	2282.8	2217.0	2304.8	2137.9	1813.1	1562.8	1391.6	1312.6	1290.7	1290.7
30°	2454.0	2361.8	2265.2	2401.3	2054.5	1637.5	1330.2	1207.3	1163.4	1145.8	1141.4
32.5°	2664.7	2524.3	2383.8	2489.1	1962.3	1409.2	1172.1	1097.5	1044.8	1027.3	1040.4
35°	2853.5	2656.0	2563.8	2528.6	1817.5	1224.8	1075.6	1009.7	965.8	943.9	943.9
37.5°	3024.7	2835.9	2765.7	2528.6	1628.7	1110.7	1014.1	961.4	904.3	886.8	886.8
40°	3397.9	3147.6	3024.7	2493.5	1396.0	1053.6	983.4	921.9	873.6	856.1	851.7
42.5°	3911.5	3573.5	3292.5	2414.5	1198.5	1027.3	965.8	895.6	856.1	842.9	838.5
45°	4455.9	4157.3	3547.1	2274.0	1071.2	1000.9	961.4	886.8	838.5	825.3	820.9
47.5°	5114.4	4807.1	3841.3	2058.9	983.4	983.4	957.0	873.6	829.7	816.5	816.5
50°	5843.1	5588.5	4214.4	1813.1	917.5	970.2	948.2	873.6	825.3	812.2	807.8
52.5°	6589.4	6470.9	4605.1	1571.6	851.7	952.6	943.9	873.6	816.5	803.4	803.4
55°	7537.6	7441.1	5057.3	1391.6	799.0	917.5	943.9	864.8	803.4	794.6	794.6
57.5°	8468.3	8433.2	5408.5	1233.6	759.5	873.6	930.7	851.7	790.2	785.8	785.8
60°	9262.9	9227.8	5557.8	1036.0	720.0	829.7	904.3	829.7	768.3	772.6	772.6
62.5°	9754.6	9552.7	5448.0	856.1	680.5	790.2	873.6	803.4	746.3	759.5	755.1
65°	9842.4	9372.7	5022.2	715.6	636.6	746.3	838.5	772.6	715.6	746.3	741.9
67.5°	9197.1	8415.6	4223.2	623.4	592.7	698.0	799.0	728.7	680.5	724.4	711.2
70°	7801.0	6835.2	3125.7	553.1	548.8	640.9	746.3	676.1	632.2	654.1	636.6
72.5°	5808.0	4934.4	2023.8	500.5	500.5	575.1	671.7	610.2	566.3	570.7	553.1
75°	3621.8	3033.5	1150.2	452.2	452.2	509.2	597.0	535.6	504.9	487.3	509.2
77.5°	1646.3	1334.6	605.8	403.9	408.3	434.6	513.6	456.6	421.4	395.1	408.3
80°	610.2	544.4	395.1	346.8	355.6	360.0	412.7	364.4	333.6	316.1	307.3
82.5°	316.1	294.1	267.8	276.6	289.7	276.6	320.5	272.2	237.1	223.9	188.8
85°	158.0	153.7	162.4	184.4	201.9	171.2	193.2	175.6	144.9	105.4	105.4
87.5°	61.5	65.9	61.5	83.4	92.2	79.0	87.8	61.5	43.9	22.0	17.6
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)