

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: P572847

Luminaire Tested: **ARCH-S-PA2-120-750-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-120-750-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15633 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

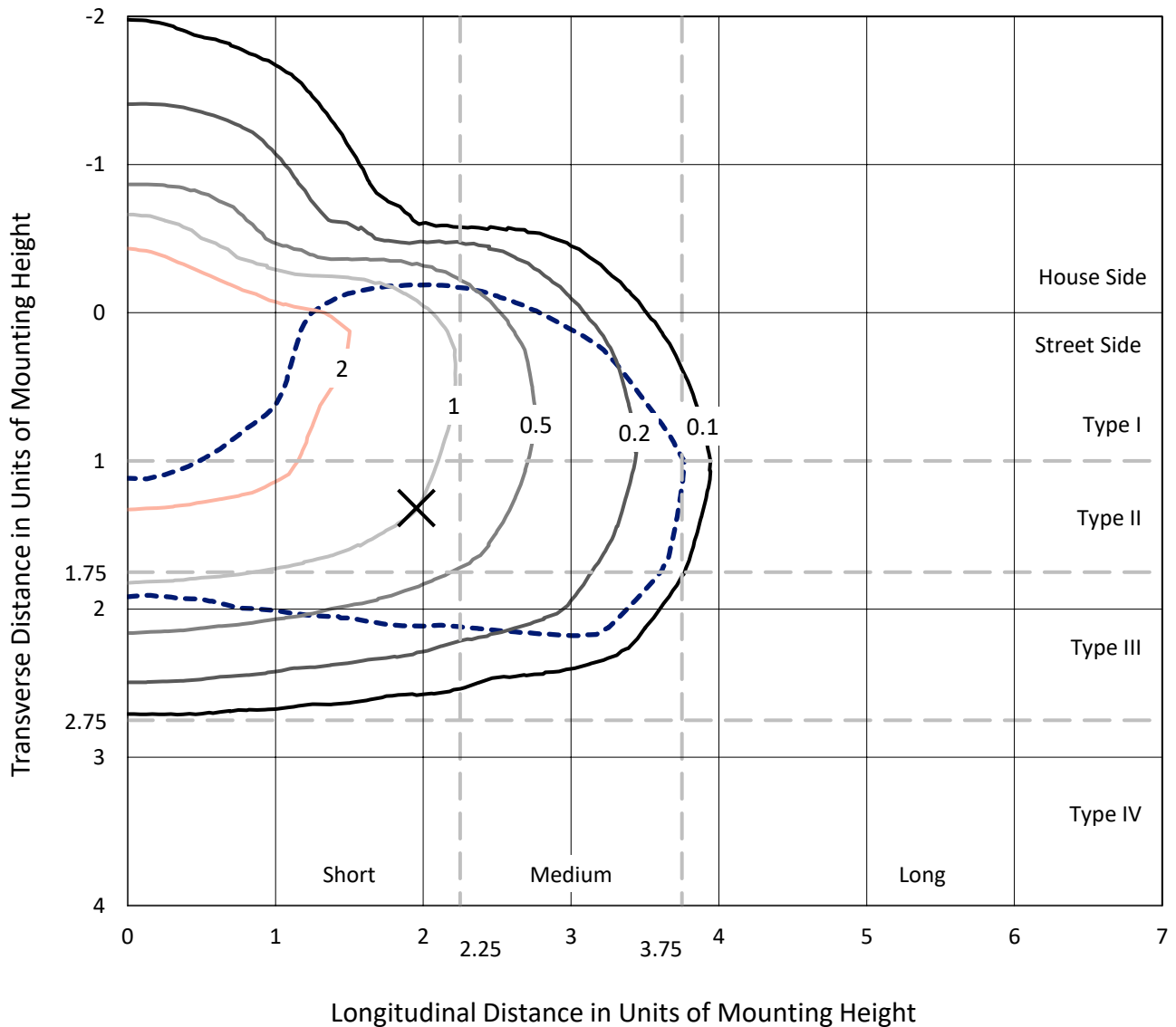
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

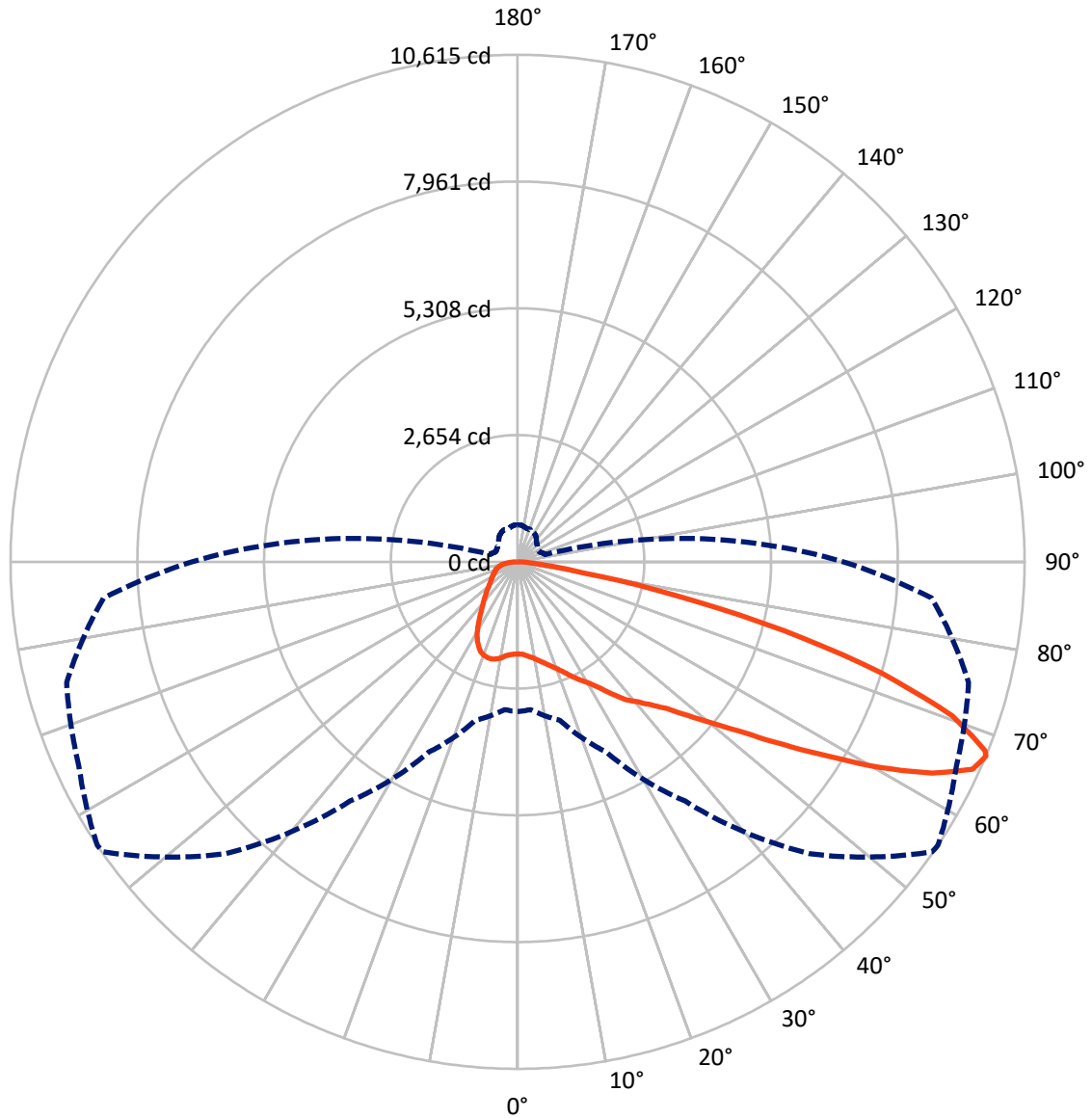
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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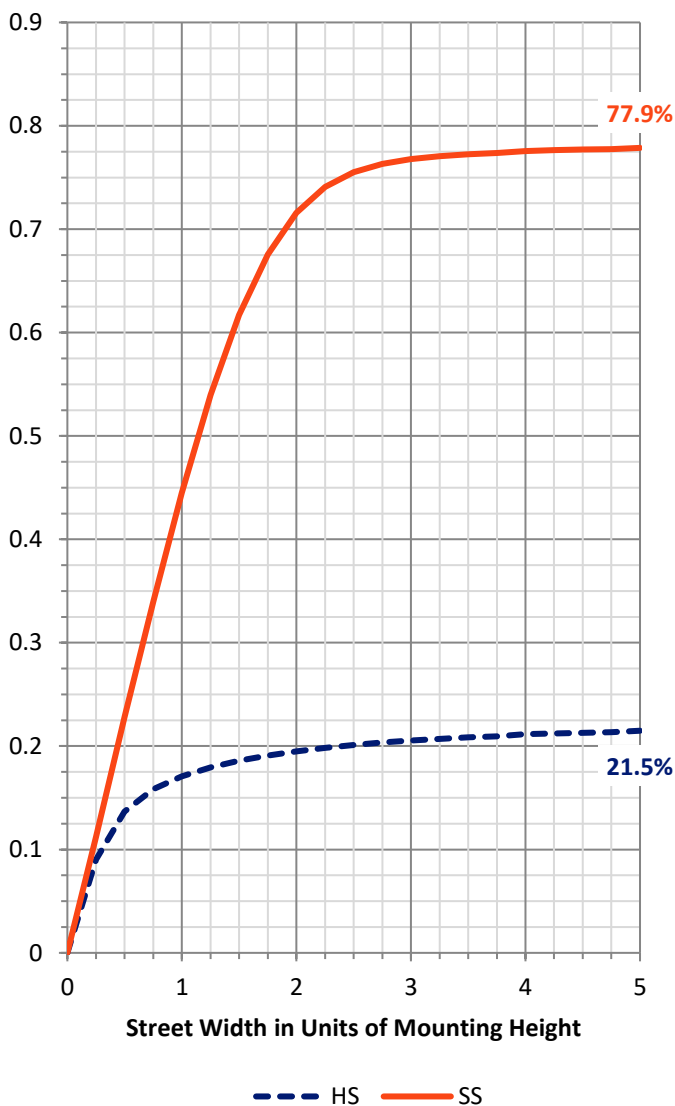
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3420.2	0.0	3420.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	12212.8	0.0	12212.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	15633.0	0.0	15633.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	1.2
10°-20°	608.9	3.9
20°-30°	1059.8	6.8
30°-40°	1553.9	9.9
40°-50°	2273.6	14.5
50°-60°	3553.3	22.7
60°-70°	4223.4	27.0
70°-80°	1923.4	12.3
80°-90°	246.6	1.6
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°	15633.0	100.0
0°-180°	15633.0	100.0



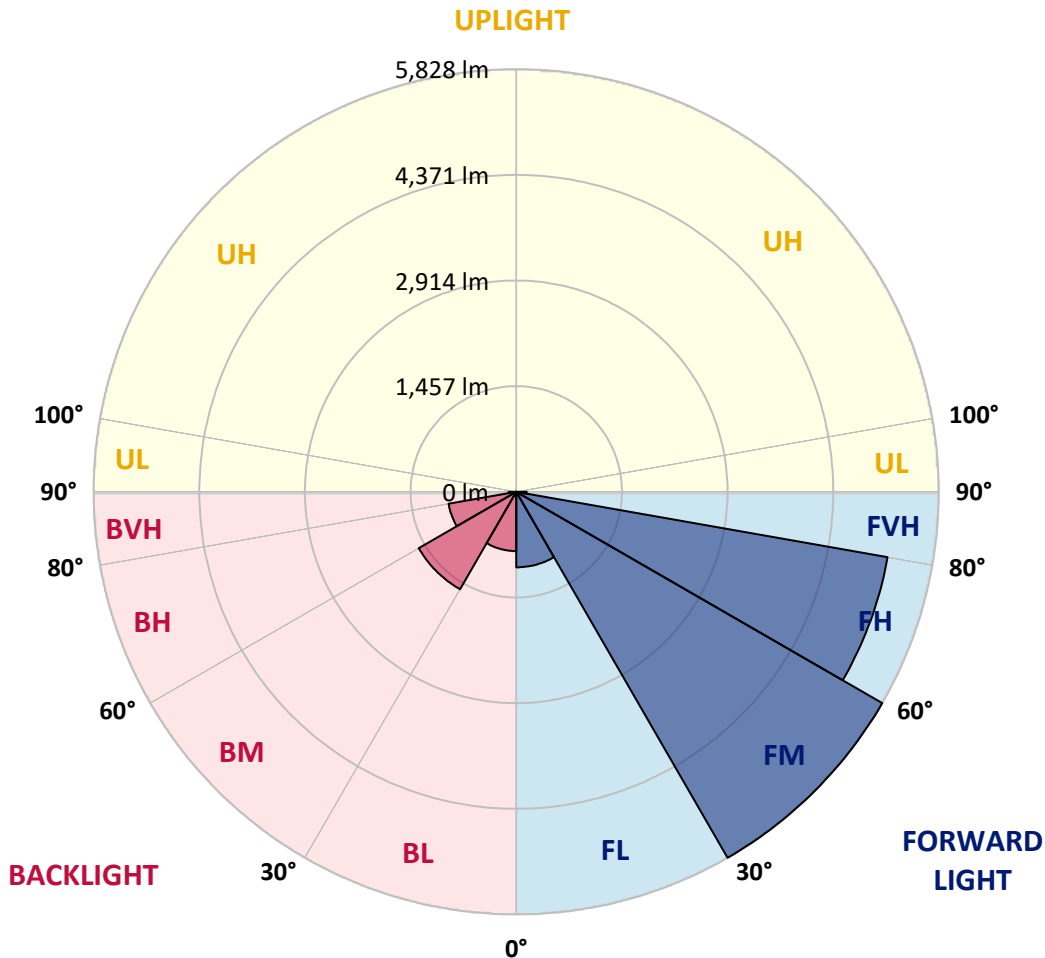
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.3	6.7			
FM (30°-60°)	5828.4	37.3			
FH (60°-80°)	5199.3	33.3			G3/7500
FVH (80°-90°)	143.8	0.9			G2/225
BL (0°-30°)	817.4	5.2	B2/1000		
BM (30°-60°)	1552.5	9.9	B2/2500		
BH (60°-80°)	947.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	102.8	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1
2.5°	1959.7	1951.2	1947.0	1951.2	1947.0	1938.5	1942.8	1938.5	1934.3	1930.1	1930.1
5°	1985.1	1976.6	1972.4	1976.6	1980.9	1972.4	1972.4	1972.4	1959.7	1955.5	1947.0
7.5°	2002.0	1989.3	1989.3	1997.8	2006.2	2010.5	2018.9	2014.7	2002.0	1993.6	1976.6
10°	2057.0	2040.1	2040.1	2040.1	2048.6	2057.0	2065.5	2069.7	2065.5	2061.3	2048.6
12.5°	2141.7	2124.8	2124.8	2124.8	2124.8	2120.5	2133.2	2137.5	2145.9	2145.9	2124.8
15°	2256.0	2234.8	2226.3	2209.4	2205.2	2196.7	2213.6	2213.6	2226.3	2230.6	2209.4
17.5°	2366.0	2340.6	2332.2	2315.2	2298.3	2277.1	2294.1	2298.3	2323.7	2327.9	2294.1
20°	2480.3	2471.8	2459.1	2433.7	2404.1	2383.0	2399.9	2395.6	2416.8	2425.3	2383.0
22.5°	2628.4	2607.3	2598.8	2565.0	2531.1	2509.9	2509.9	2518.4	2539.6	2539.6	2476.1
25°	2806.2	2776.6	2755.4	2717.3	2675.0	2649.6	2653.8	2662.3	2691.9	2670.8	2573.4
27.5°	3026.3	2996.7	2967.0	2890.9	2848.5	2797.7	2793.5	2802.0	2848.5	2793.5	2666.5
30°	3233.7	3221.0	3195.6	3136.4	3068.6	2984.0	2945.9	2950.1	2984.0	2907.8	2747.0
32.5°	3411.5	3394.5	3381.8	3339.5	3293.0	3191.4	3140.6	3144.8	3140.6	3047.5	2844.3
35°	3623.1	3597.7	3589.2	3551.1	3491.9	3424.2	3403.0	3394.5	3369.1	3242.2	2971.3
37.5°	3826.3	3800.9	3788.2	3767.0	3720.5	3661.2	3661.2	3657.0	3606.2	3428.4	3098.3
40°	4067.5	4037.9	3999.8	3987.1	3949.0	3906.7	3872.8	3851.7	3762.8	3601.9	3343.7
42.5°	4359.6	4342.6	4321.5	4266.5	4207.2	4198.7	4101.4	4092.9	4029.4	3936.3	3690.8
45°	4778.6	4744.7	4715.1	4698.2	4626.2	4550.0	4414.6	4380.7	4380.7	4359.6	4097.2
47.5°	5201.9	5142.6	5184.9	5172.2	5155.3	5070.6	4808.2	4812.5	4804.0	4859.0	4693.9
50°	5485.4	5451.6	5570.1	5625.1	5743.6	5743.6	5366.9	5320.4	5354.2	5515.1	5303.4
52.5°	5705.5	5684.4	5819.8	6035.7	6387.0	6420.8	6031.4	5934.1	5980.7	6209.2	6124.6
55°	5883.3	5862.1	6018.7	6395.4	6958.4	7165.8	6797.5	6755.2	6662.1	6907.6	6933.0
57.5°	5989.1	5942.6	6179.6	6683.3	7424.0	7902.3	7694.9	7682.2	7466.3	7694.9	7809.1
60°	5828.3	5798.7	6124.6	6801.8	7800.7	8596.4	8748.8	8748.8	8363.6	8486.4	8626.0
62.5°	5307.7	5269.6	5612.4	6526.7	7847.2	9163.6	9794.2	9743.4	9227.1	9222.8	9100.1
65°	4317.2	4270.7	4655.9	5620.9	7258.9	9231.3	10501.1	10471.4	9874.6	9705.3	9129.7
67°	3136.4	3106.7	3436.9	4393.4	6116.1	8643.0	10590.0	10615.3	10132.8	9773.1	8702.2
67.5°	2814.7	2810.4	3085.6	4033.7	5781.7	8427.1	10530.7	10556.1	10128.6	9718.0	8532.9
70°	1312.1	1371.4	1629.5	2311.0	3898.2	6636.7	9557.2	9654.5	9586.8	9083.1	7186.9
72.5°	609.5	634.9	749.2	1117.4	2095.1	4279.2	7745.6	7978.4	8274.7	7792.2	5692.8
75°	376.7	385.2	448.7	579.9	986.2	2057.0	5515.1	5769.0	6217.7	5862.1	3640.0
77.5°	296.3	300.5	342.8	414.8	575.6	884.6	3026.3	3343.7	3927.8	3466.5	1832.7
80°	220.1	228.6	262.4	321.7	406.3	452.9	1286.7	1405.2	1896.2	1451.8	761.9
82.5°	160.8	169.3	203.2	232.8	283.6	287.8	524.8	554.5	812.7	588.3	330.1
85°	135.4	135.4	156.6	173.5	190.5	160.8	258.2	254.0	313.2	266.7	131.2
87.5°	63.5	67.7	148.1	110.0	93.1	67.7	76.2	80.4	97.3	105.8	50.8
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°	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1
2.5°	1925.8	1925.8	1925.8	1930.1	1934.3	1934.3	1938.5	1938.5	1942.8	1947.0	1955.5
5°	1942.8	1942.8	1938.5	1942.8	1951.2	1955.5	1963.9	1972.4	1980.9	1989.3	1993.6
7.5°	1976.6	1972.4	1972.4	1972.4	1980.9	1989.3	2002.0	2010.5	2023.2	2027.4	2035.9
10°	2040.1	2031.6	2031.6	2035.9	2040.1	2027.4	2023.2	2018.9	2031.6	2040.1	2048.6
12.5°	2116.3	2107.8	2103.6	2090.9	2074.0	2048.6	2027.4	2010.5	2014.7	2023.2	2035.9
15°	2196.7	2179.8	2171.3	2141.7	2099.4	2044.3	2010.5	1989.3	1989.3	1989.3	2002.0
17.5°	2281.4	2264.4	2230.6	2175.6	2095.1	2018.9	1976.6	1938.5	1921.6	1917.4	1925.8
20°	2361.8	2336.4	2281.4	2196.7	2069.7	1968.2	1913.1	1849.6	1824.2	1807.3	1815.8
22.5°	2438.0	2404.1	2327.9	2196.7	2027.4	1892.0	1794.6	1710.0	1667.6	1659.2	1663.4
25°	2518.4	2476.1	2374.5	2171.3	1934.3	1777.7	1642.2	1553.4	1498.3	1489.9	1502.6
27.5°	2598.8	2535.3	2412.6	2103.6	1828.5	1621.1	1477.2	1392.5	1362.9	1346.0	1350.2
30°	2666.5	2607.3	2450.7	2010.5	1684.6	1439.1	1307.9	1269.8	1248.6	1240.2	1240.2
32.5°	2755.4	2700.4	2476.1	1900.4	1515.3	1274.0	1189.4	1159.7	1142.8	1121.6	1125.9
35°	2865.5	2814.7	2463.4	1760.8	1354.4	1164.0	1096.2	1053.9	1015.8	986.2	982.0
37.5°	3013.6	2975.5	2399.9	1591.5	1206.3	1083.5	1015.8	960.8	905.8	859.2	850.8
40°	3259.1	3170.2	2306.8	1405.2	1104.7	1020.1	939.6	871.9	804.2	753.4	740.7
42.5°	3572.3	3386.1	2179.8	1214.8	1020.1	952.3	871.9	783.0	719.5	673.0	673.0
45°	3936.3	3618.9	2027.4	1070.8	931.2	884.6	787.3	711.1	673.0	643.4	639.1
47.5°	4368.0	3851.7	1832.7	956.6	859.2	825.4	728.0	681.4	656.1	630.7	626.4
50°	4947.9	4164.9	1688.8	859.2	787.3	757.6	711.1	673.0	647.6	630.7	626.4
52.5°	5612.4	4567.0	1587.2	783.0	728.0	715.3	706.8	677.2	651.8	639.1	634.9
55°	6332.0	5062.2	1489.9	719.5	681.4	698.4	715.3	685.7	668.7	651.8	643.4
57.5°	7009.2	5481.2	1333.3	664.5	647.6	677.2	711.1	689.9	668.7	656.1	651.8
60°	7470.5	5692.8	1117.4	613.7	613.7	647.6	698.4	668.7	647.6	651.8	651.8
62.5°	7618.7	5612.4	884.6	567.2	579.9	613.7	660.3	643.4	634.9	656.1	656.1
65°	7398.6	5286.5	706.8	529.1	546.0	571.4	639.1	656.1	681.4	728.0	732.2
67°	6822.9	4761.7	596.8	499.4	516.4	558.7	664.5	723.8	723.8	774.6	774.6
67.5°	6653.6	4583.9	579.9	491.0	512.1	558.7	677.2	740.7	723.8	783.0	783.0
70°	5409.3	3606.2	491.0	465.6	495.2	588.3	732.2	744.9	706.8	761.9	757.6
72.5°	4012.5	2607.3	448.7	440.2	461.4	554.5	728.0	715.3	660.3	677.2	664.5
75°	2480.3	1511.0	414.8	406.3	419.0	491.0	673.0	651.8	588.3	575.6	562.9
77.5°	1197.8	766.1	355.5	368.2	380.9	427.5	592.6	571.4	516.4	486.7	482.5
80°	520.6	393.6	304.7	325.9	330.1	364.0	491.0	465.6	414.8	368.2	368.2
82.5°	258.2	220.1	241.3	270.9	262.4	292.0	385.2	342.8	304.7	254.0	245.5
85°	118.5	127.0	177.8	203.2	177.8	182.0	262.4	241.3	190.5	143.9	148.1
87.5°	42.3	59.3	101.6	122.7	88.9	84.7	139.7	101.6	59.3	16.9	21.2
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)