

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: P348574

Luminaire Tested: **ARCH-N-PA1-60-830-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-60-830-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6124 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

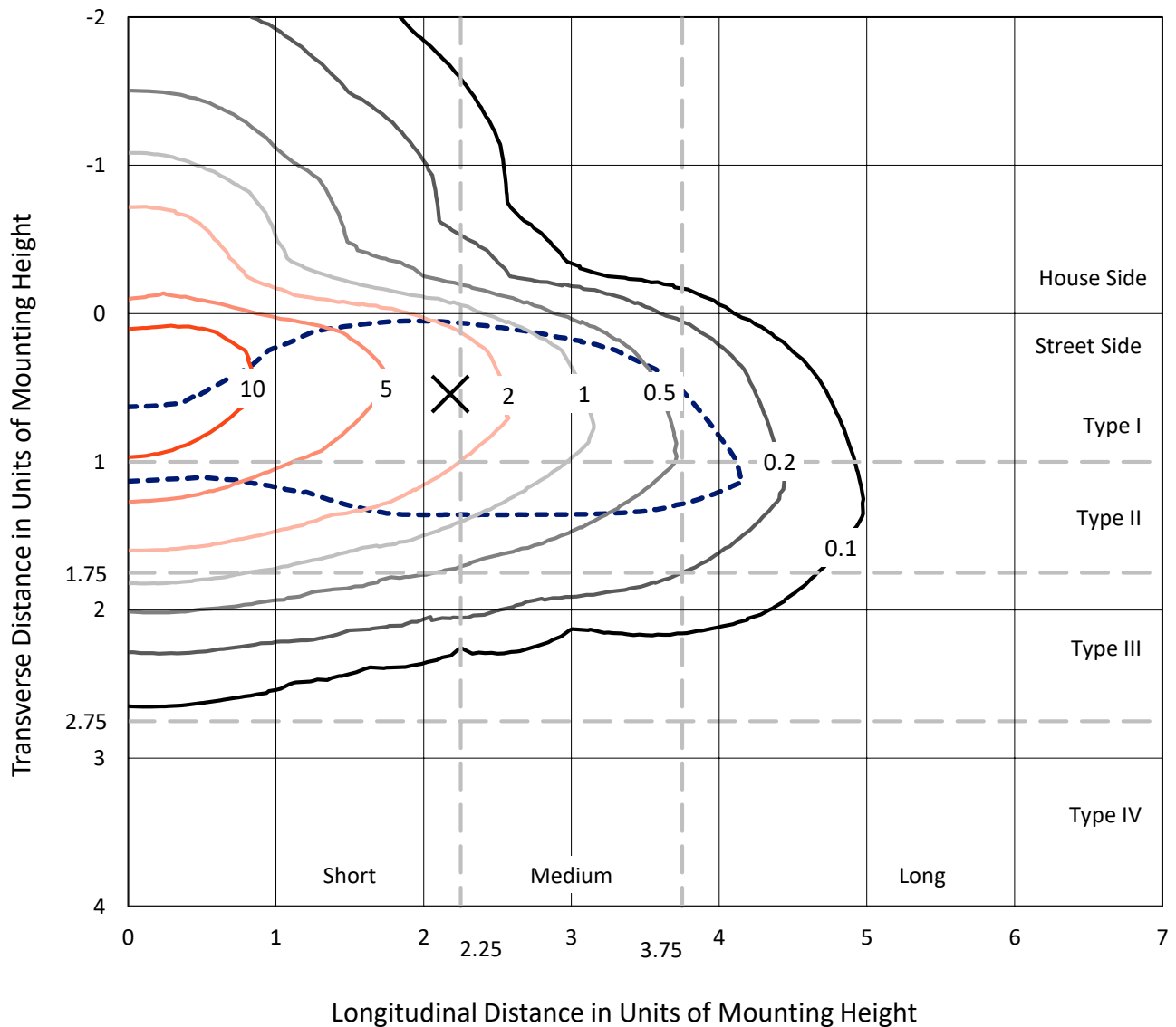
Input Watts (W): 62  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

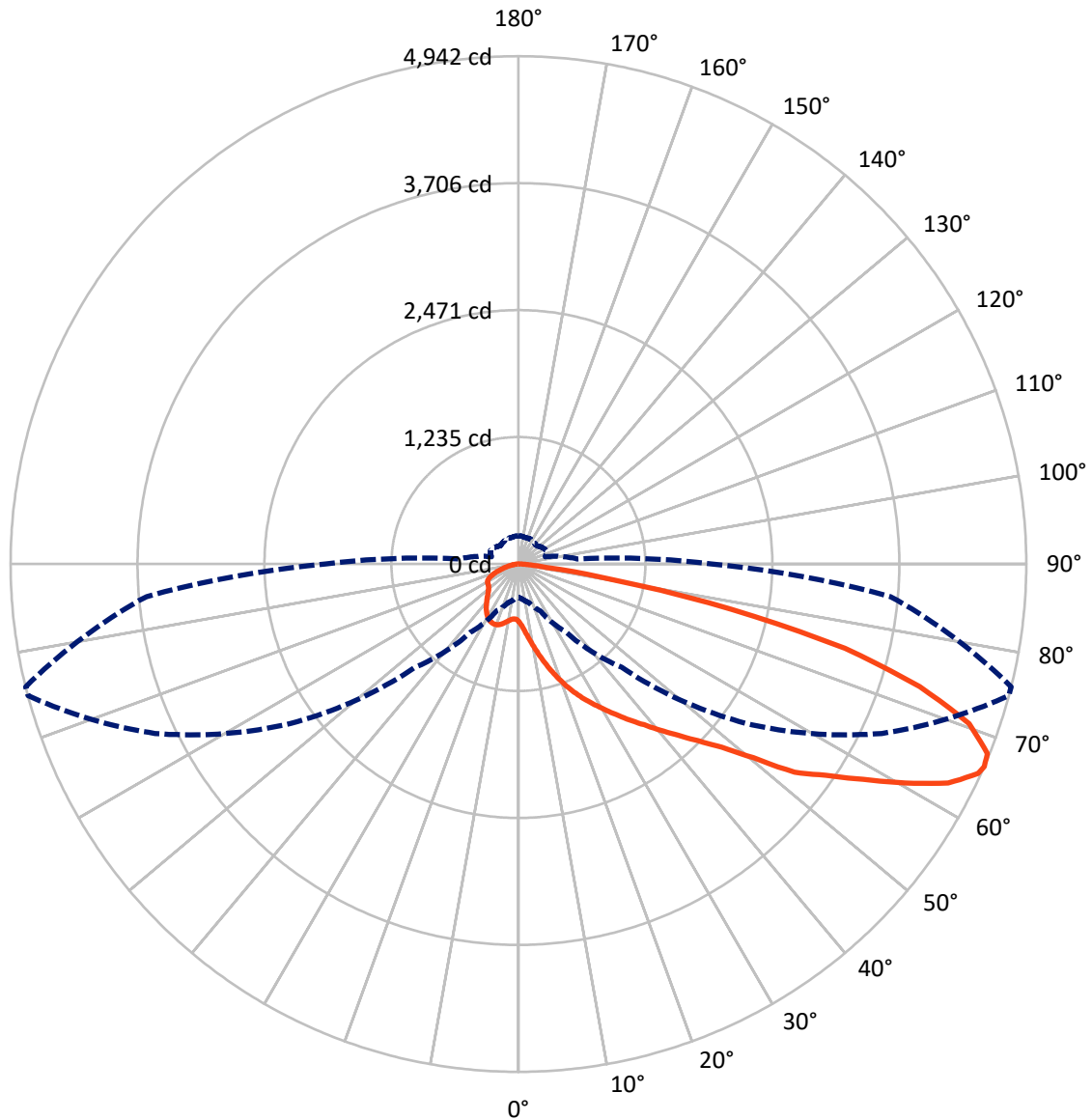


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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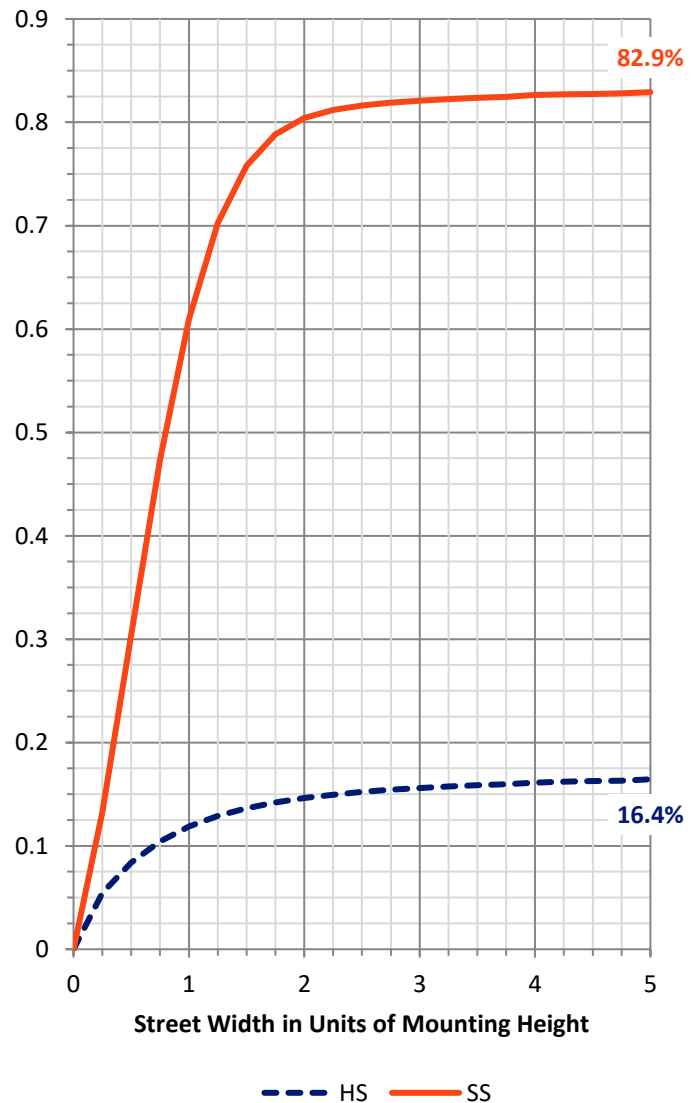
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1030.5	0.0	1030.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	5093.5	0.0	5093.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	6124.0	0.0	6124.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	1.1
10°-20°	267.1	4.4
20°-30°	519.0	8.5
30°-40°	847.1	13.8
40°-50°	1157.3	18.9
50°-60°	1348.0	22.0
60°-70°	1208.5	19.7
70°-80°	610.7	10.0
80°-90°	98.6	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°	6124.0	100.0
0°-180°	6124.0	100.0



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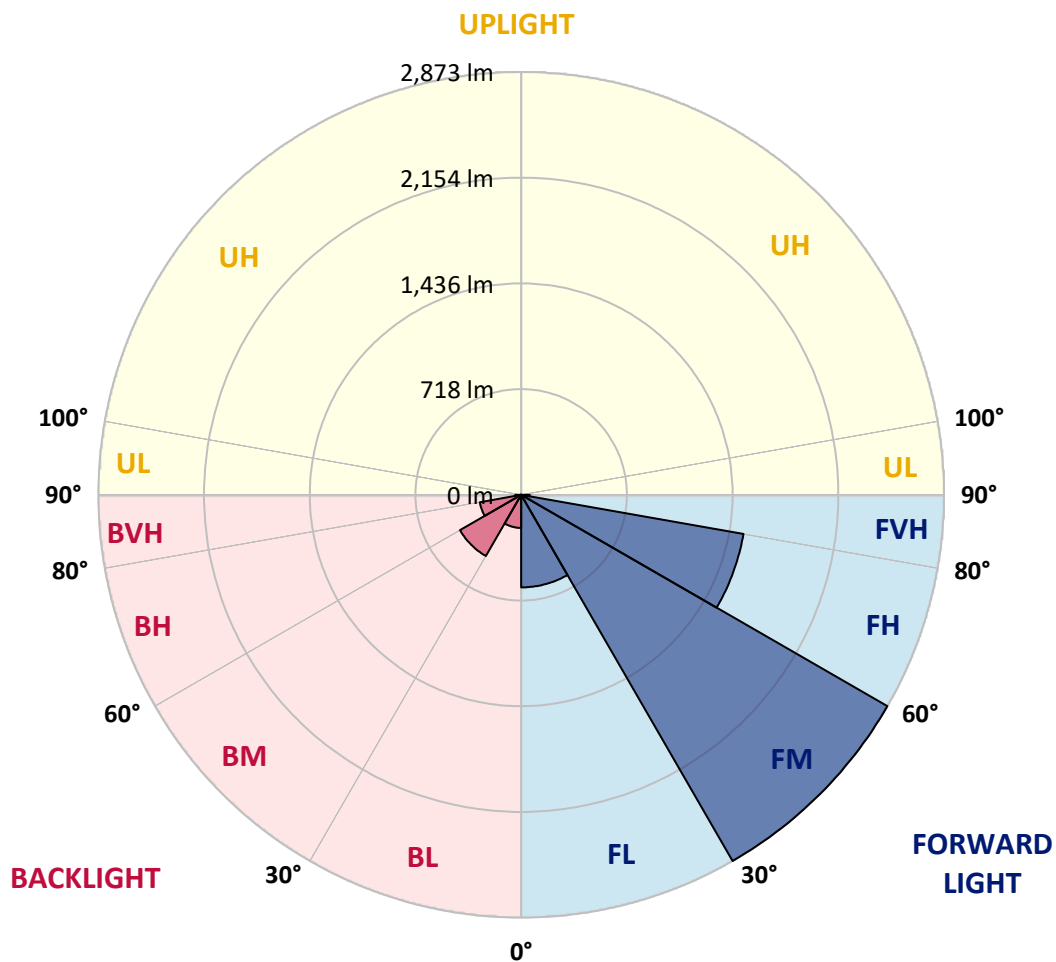
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.9	10.3			
FM (30°-60°)	2872.6	46.9			
FH (60°-80°)	1533.8	25.0			G1/1800
FVH (80°-90°)	58.2	1.0			G1/100
BL (0°-30°)	224.7	3.7	B1/500		
BM (30°-60°)	479.8	7.8	B1/1000		
BH (60°-80°)	285.5	4.7	B1/500		G1/500
BVH (80°-90°)	40.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3
2.5°	742.4	731.2	730.2	713.7	710.0	678.6	655.5	631.4	604.0	598.6	576.9
5°	953.7	952.6	938.3	911.4	890.4	836.8	783.8	727.7	666.1	656.1	607.5
7.5°	1143.7	1142.0	1131.0	1102.1	1071.7	1005.8	930.2	844.1	744.3	729.5	648.9
10°	1288.0	1287.3	1283.6	1262.4	1236.6	1173.4	1089.8	972.4	835.1	815.0	700.6
12.5°	1399.4	1400.6	1403.1	1395.7	1383.4	1329.5	1243.9	1108.3	932.0	912.1	758.2
15°	1474.9	1478.6	1491.5	1502.1	1508.5	1475.5	1392.5	1247.4	1040.6	1016.6	822.0
17.5°	1512.9	1517.1	1539.3	1571.3	1600.9	1597.5	1531.6	1380.1	1144.7	1121.6	890.7
20°	1545.8	1548.9	1573.8	1612.3	1664.5	1687.5	1650.5	1507.7	1258.9	1231.4	963.4
22.5°	1641.0	1644.9	1652.4	1674.2	1720.4	1762.8	1744.9	1628.5	1363.4	1337.9	1032.4
25°	1824.8	1829.5	1813.3	1794.8	1803.6	1833.1	1836.4	1738.7	1469.5	1440.6	1106.7
27.5°	2046.2	2053.0	2025.4	1977.8	1936.2	1924.8	1920.8	1828.9	1570.7	1537.2	1180.1
30°	2263.0	2274.9	2238.9	2177.2	2100.9	2047.2	2007.5	1917.3	1670.5	1638.5	1249.3
32.5°	2474.9	2470.1	2417.9	2357.6	2268.2	2201.1	2105.0	2012.1	1782.8	1746.0	1318.1
35°	2620.0	2621.7	2573.2	2501.7	2416.5	2364.9	2235.6	2114.4	1897.3	1863.4	1396.3
37.5°	2743.5	2735.8	2680.9	2614.2	2540.8	2518.7	2388.4	2227.1	2021.4	1984.4	1479.4
40°	2784.7	2775.7	2739.7	2691.7	2632.9	2631.0	2557.0	2354.7	2161.8	2125.2	1573.2
42.5°	2759.7	2748.3	2733.5	2720.4	2702.3	2710.6	2715.4	2504.4	2316.0	2275.1	1681.7
45°	2667.6	2650.3	2660.7	2689.2	2728.5	2775.5	2858.5	2670.1	2488.8	2454.5	1809.2
47.5°	2526.0	2510.4	2542.9	2603.8	2710.6	2829.6	2993.8	2853.1	2695.0	2661.0	1990.7
50°	2326.9	2331.4	2377.8	2488.6	2650.1	2854.5	3160.5	3095.3	2994.8	2963.0	2238.3
52.5°	2000.0	2000.9	2131.4	2313.3	2542.9	2841.6	3253.1	3404.8	3404.2	3365.7	2474.0
55°	1696.5	1715.0	1818.3	2060.1	2369.1	2790.1	3317.7	3555.4	3673.0	3627.9	2693.8
57.5°	1400.0	1410.8	1508.8	1751.6	2121.0	2652.6	3384.0	3736.0	3982.8	3954.3	2967.0
60°	1062.8	1079.4	1180.7	1405.0	1803.8	2408.8	3390.3	3924.6	4353.1	4324.4	3272.0
62.5°	689.8	718.5	813.3	1023.5	1420.0	2058.0	3245.6	4047.9	4704.0	4693.8	3542.7
65°	396.5	418.1	484.0	646.2	979.6	1617.7	2901.5	4000.5	4920.0	4914.2	3643.9
66°	323.9	337.4	387.9	505.0	808.3	1420.6	2701.5	3900.5	4941.4	4941.6	3632.3
67.5°	259.0	265.1	287.7	361.5	596.5	1126.0	2344.1	3679.9	4914.8	4922.1	3557.2
70°	214.3	217.5	224.5	242.4	325.6	679.0	1663.8	3106.7	4647.7	4653.3	3264.3
72.5°	192.3	194.2	196.9	199.4	229.7	379.4	1016.2	2485.3	4074.9	4082.2	2817.9
75°	174.2	175.3	174.8	175.1	192.7	241.8	525.2	1855.5	3294.8	3280.3	2158.7
77.5°	153.0	154.1	152.0	152.4	170.5	185.9	261.3	1299.0	2223.5	2120.8	1216.2
80°	129.3	130.1	129.3	130.8	148.4	140.3	152.0	730.8	983.2	930.0	432.4
82.5°	97.7	101.2	103.7	109.6	122.2	99.8	101.7	284.6	299.4	285.0	132.6
85°	42.8	52.2	78.2	83.8	91.9	59.9	66.7	116.0	121.8	118.1	48.2
87.5°	11.2	12.3	38.7	48.6	50.9	27.0	34.7	52.8	55.7	52.8	16.0
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°	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3
2.5°	565.5	555.3	537.0	520.8	508.5	500.2	491.9	487.7	485.2	482.8	483.2
5°	583.6	563.0	531.6	509.4	496.9	489.0	484.8	483.2	482.1	479.6	479.6
7.5°	610.8	581.7	538.5	515.6	505.8	499.8	497.3	496.5	495.2	492.3	492.7
10°	645.1	604.4	552.8	530.6	521.6	515.0	511.4	510.2	507.9	504.6	505.0
12.5°	685.5	632.4	571.7	548.4	537.6	528.7	522.9	519.3	515.4	511.0	511.2
15°	729.5	663.0	592.1	564.5	549.7	537.2	527.9	521.8	515.6	510.2	510.0
17.5°	774.2	692.5	607.7	573.2	553.2	536.8	524.1	514.8	507.1	500.4	499.8
20°	822.5	719.1	616.4	572.4	546.6	527.0	510.2	498.6	490.0	483.4	482.3
22.5°	871.5	744.1	617.9	563.8	531.8	507.9	490.2	477.3	468.6	461.8	459.3
25°	916.4	763.4	611.9	547.4	511.2	485.5	468.2	455.1	448.0	439.9	437.4
27.5°	957.4	776.9	599.8	526.4	488.2	462.8	446.6	435.3	427.7	421.4	419.3
30°	994.2	784.2	580.0	501.5	464.5	441.4	427.7	420.0	413.3	405.4	404.0
32.5°	1029.1	784.2	554.7	474.2	441.0	422.5	414.4	409.6	402.1	394.4	392.3
35°	1064.0	779.4	524.7	445.7	419.3	408.9	408.5	402.9	391.5	381.1	378.4
37.5°	1100.8	769.7	491.1	419.1	401.7	402.9	406.5	394.0	377.8	363.0	359.0
40°	1142.4	756.1	456.1	396.1	386.9	400.2	400.8	381.1	349.5	336.0	332.4
42.5°	1191.3	742.6	423.7	375.7	375.3	392.1	390.2	353.2	334.3	327.4	325.6
45°	1255.5	734.9	392.9	356.3	366.1	379.0	372.1	337.8	329.9	326.0	324.3
47.5°	1356.8	738.9	364.7	341.0	357.0	365.9	338.5	331.6	326.0	321.2	319.5
50°	1483.6	736.6	341.8	330.4	346.6	352.2	323.3	323.5	320.6	315.2	312.7
52.5°	1579.0	718.7	327.0	324.3	337.4	327.9	313.7	315.6	314.1	306.2	303.5
55°	1671.1	703.3	319.5	322.0	330.8	297.5	302.5	307.1	305.6	297.9	296.7
57.5°	1785.7	700.4	315.0	322.7	325.2	282.3	291.7	297.7	296.7	293.4	292.7
60°	1926.0	701.3	310.8	323.7	318.9	271.1	281.5	289.2	289.8	289.2	288.8
62.5°	2003.1	678.6	300.4	320.8	307.9	261.3	270.9	282.1	282.3	283.6	283.4
65°	1937.7	610.8	281.1	310.6	289.4	253.2	261.7	274.0	270.9	276.5	276.5
66°	1874.0	571.7	271.5	304.0	281.5	250.1	258.8	269.9	265.9	273.6	273.6
67.5°	1744.1	505.8	254.3	289.8	270.3	245.7	255.5	263.0	257.6	269.0	268.2
70°	1506.7	391.3	219.5	257.8	251.8	239.3	250.9	249.3	241.4	258.8	255.5
72.5°	1270.3	297.3	176.3	215.8	223.7	231.2	244.5	231.8	221.8	234.1	226.8
75°	985.7	223.5	139.3	167.8	189.0	218.5	236.8	211.6	197.3	196.1	192.1
77.5°	532.9	153.4	110.4	128.1	150.1	202.7	231.6	190.0	168.4	163.4	160.3
80°	211.0	99.8	80.3	97.1	105.0	179.8	219.1	164.9	138.9	133.9	129.1
82.5°	87.1	59.0	51.8	65.1	68.4	153.8	196.7	135.1	107.3	148.4	157.6
85°	37.4	32.4	30.8	33.7	38.7	107.9	156.6	103.1	115.8	103.3	82.1
87.5°	11.2	13.7	13.1	12.9	14.1	25.8	83.4	57.4	85.0	32.2	24.1
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)