

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: P400511

Luminaire Tested: **ARCH-L-PA3-90-740-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-90-740-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15537 lumens  
Efficiency: N/A  
Efficacy: 167.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3

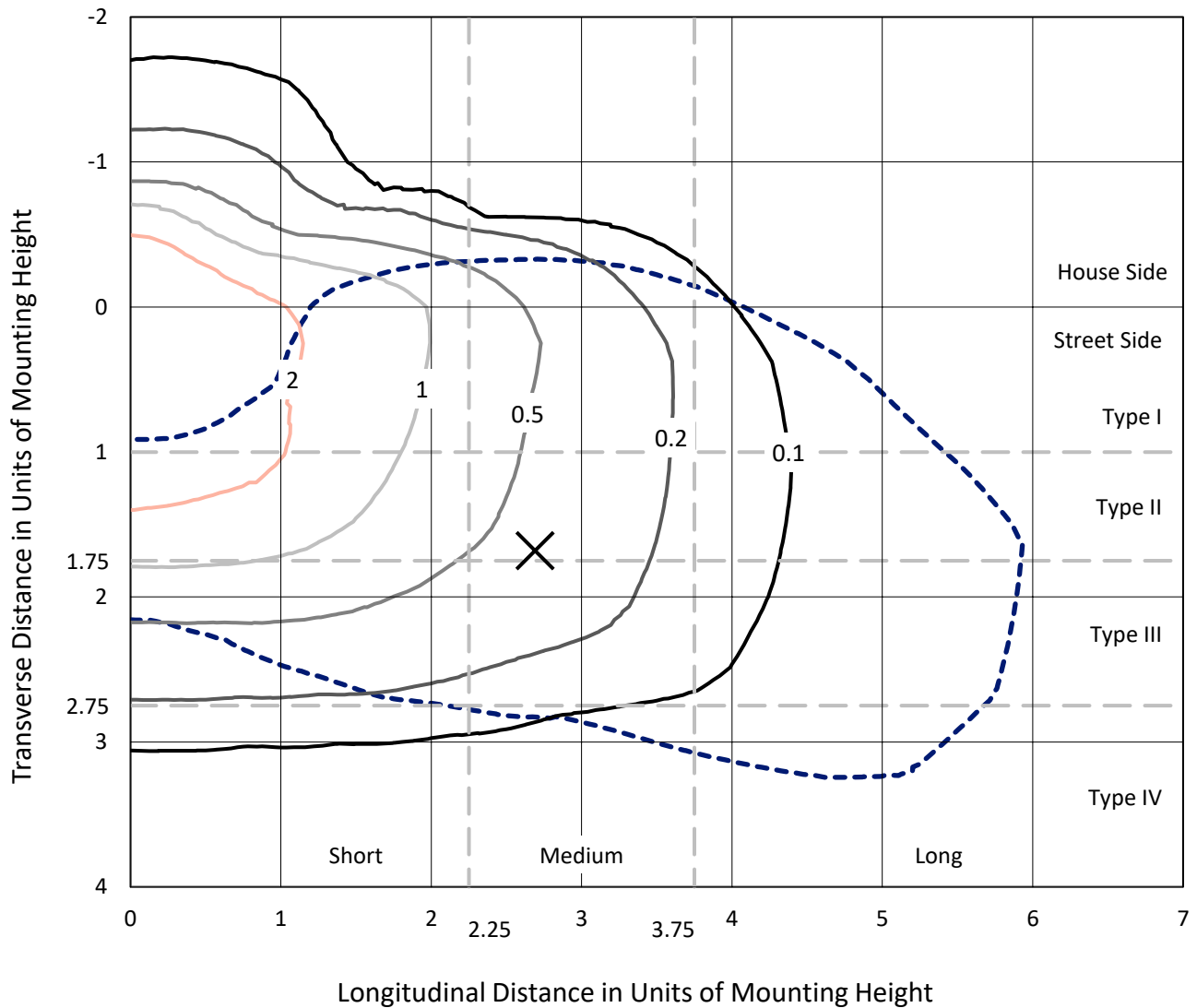
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

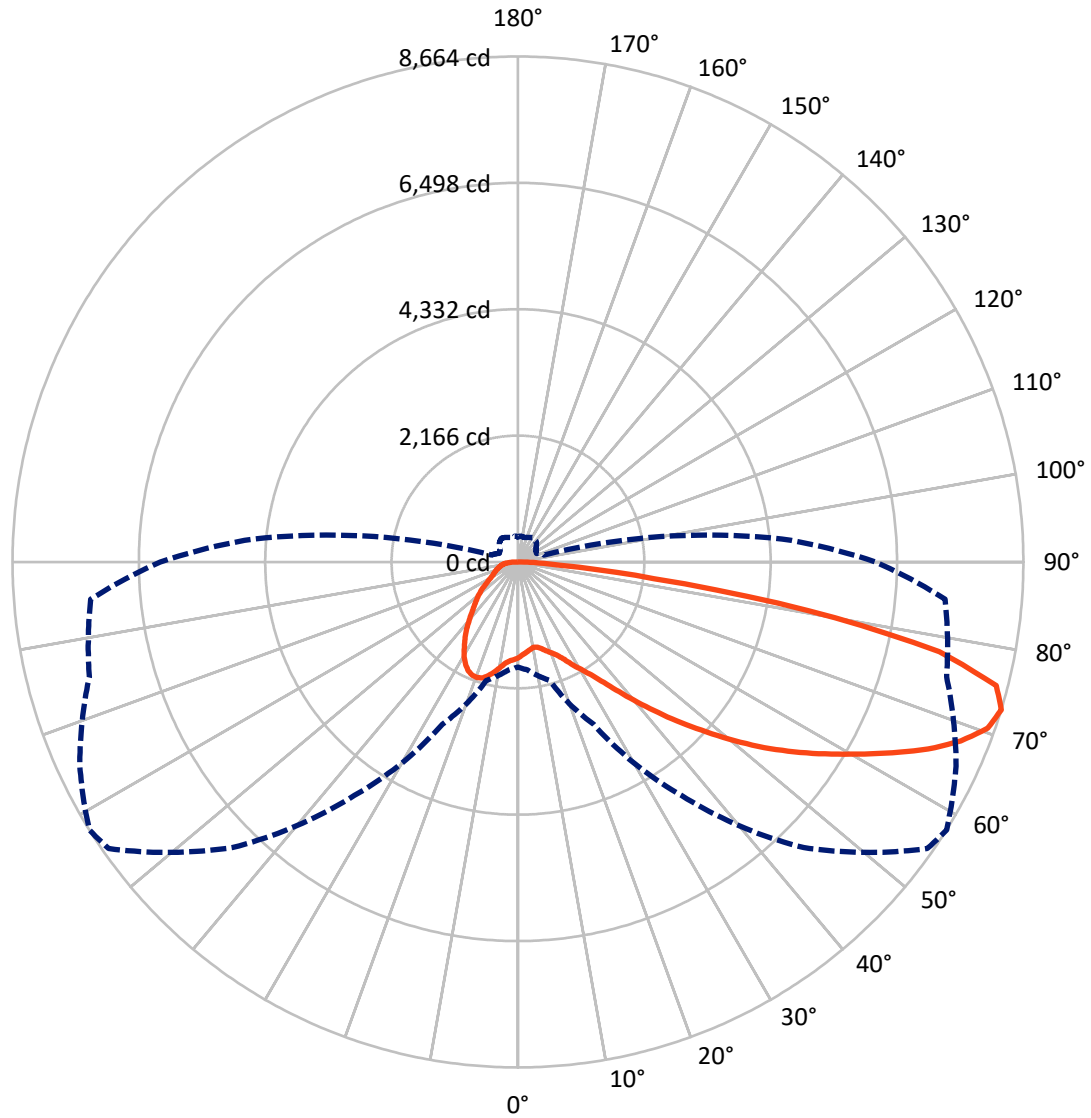
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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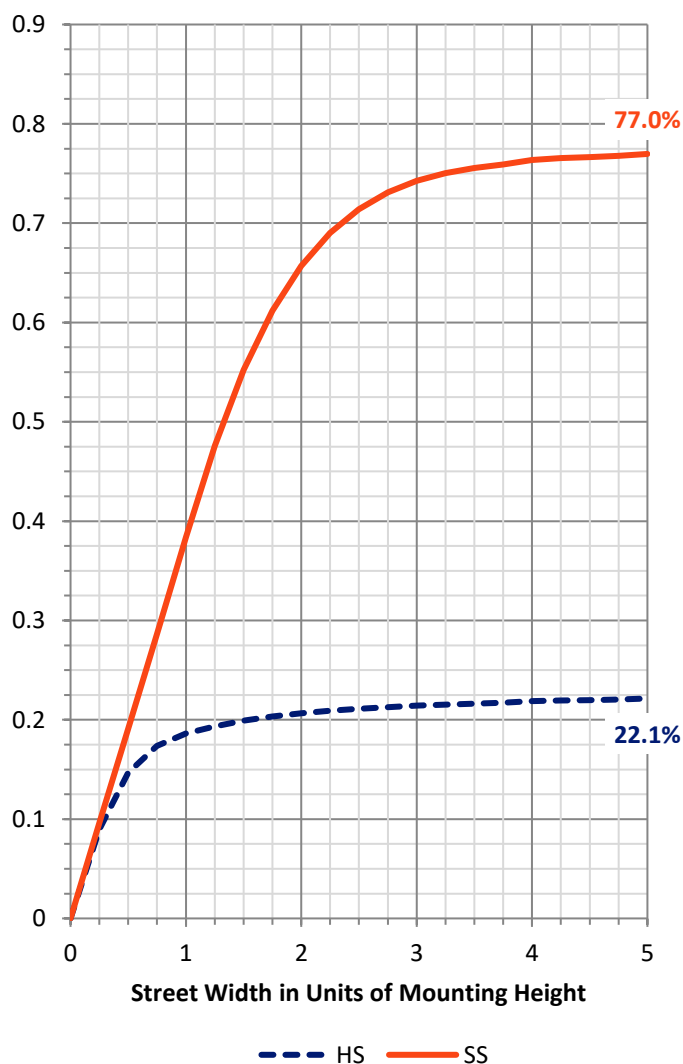
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3523.6	0.0	3523.6
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	12013.4	0.0	12013.4
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	15537.0	0.0	15537.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.9	1.0
10°-20°	501.4	3.2
20°-30°	898.1	5.8
30°-40°	1351.0	8.7
40°-50°	2187.7	14.1
50°-60°	3293.2	21.2
60°-70°	3875.8	24.9
70°-80°	2748.3	17.7
80°-90°	523.7	3.4
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°	15537.0	100.0
0°-180°	15537.0	100.0

**Coefficient of Utilization**



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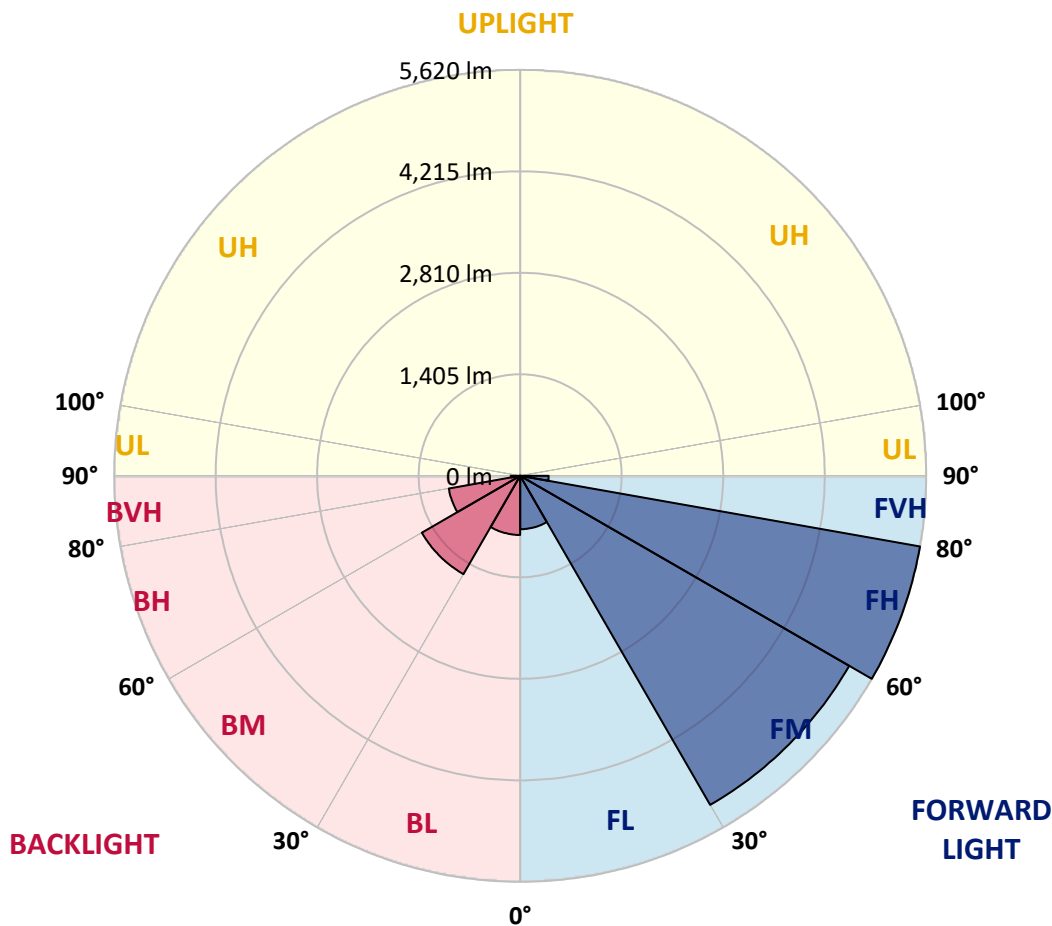
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.9	4.8			
FM (30°-60°)	5259.7	33.9			
FH (60°-80°)	5619.8	36.2			G3/7500
FVH (80°-90°)	395.0	2.5			G3/500
BL (0°-30°)	818.5	5.3	B2/1000		
BM (30°-60°)	1572.2	10.1	B2/2500		
BH (60°-80°)	1004.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	128.7	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8
2.5°	1577.3	1569.1	1571.1	1571.1	1579.3	1583.4	1585.5	1591.6	1595.8	1606.0	1620.4
5°	1503.5	1497.3	1499.3	1501.4	1515.8	1530.1	1542.4	1550.6	1562.9	1579.3	1599.9
7.5°	1450.1	1446.0	1448.1	1452.2	1464.5	1480.9	1501.4	1513.7	1532.2	1562.9	1597.8
10°	1411.2	1411.2	1413.2	1421.4	1433.7	1454.2	1470.6	1485.0	1521.9	1577.3	1630.6
12.5°	1380.4	1380.4	1386.5	1402.9	1423.5	1444.0	1482.9	1499.3	1548.6	1624.5	1688.0
15°	1378.3	1380.4	1382.4	1396.8	1419.4	1464.5	1521.9	1546.5	1606.0	1696.3	1770.1
17.5°	1411.2	1413.2	1405.0	1409.1	1435.8	1499.3	1575.2	1604.0	1679.8	1778.3	1854.2
20°	1511.7	1511.7	1487.0	1464.5	1482.9	1552.7	1638.8	1667.5	1751.6	1860.3	1936.2
22.5°	1716.8	1727.0	1669.6	1620.4	1591.6	1630.6	1708.6	1739.3	1833.7	1950.6	2026.5
25°	1964.9	1975.2	1897.3	1827.5	1774.2	1768.0	1819.3	1852.1	1930.1	2051.1	2114.7
27.5°	2204.9	2186.5	2114.7	2049.0	1981.4	1926.0	1964.9	1993.7	2083.9	2176.2	2215.2
30°	2393.6	2379.3	2309.5	2262.4	2198.8	2127.0	2104.4	2135.2	2209.0	2295.2	2315.7
32.5°	2602.8	2592.6	2522.8	2461.3	2408.0	2340.3	2291.1	2305.4	2346.5	2408.0	2420.3
35°	2869.5	2892.0	2818.2	2693.1	2633.6	2568.0	2533.1	2537.2	2568.0	2606.9	2586.4
37.5°	3150.5	3177.1	3181.2	2984.3	2904.3	2844.9	2807.9	2822.3	2859.2	2885.9	2822.3
40°	3671.5	3644.8	3538.1	3392.5	3269.4	3212.0	3160.7	3158.7	3185.3	3232.5	3117.7
42.5°	4362.7	4338.1	4122.7	3934.0	3739.1	3673.5	3573.0	3529.9	3542.2	3601.7	3441.7
45°	5025.2	5014.9	4842.6	4623.2	4389.3	4262.2	4032.4	3927.8	3917.6	3964.8	3774.0
47.5°	5613.8	5568.7	5443.6	5273.4	5248.7	4916.5	4493.9	4352.4	4303.2	4329.9	4116.5
50°	6243.5	6089.7	5917.4	5812.8	5991.2	5681.5	4959.5	4811.9	4690.8	4709.3	4487.8
52.5°	6577.9	6319.4	6206.6	6237.4	6477.4	6358.4	5466.2	5285.7	5090.8	5117.5	4857.0
55°	6290.7	6288.7	6337.9	6528.6	6863.0	6725.5	5948.2	5745.1	5531.8	5538.0	5281.6
57.5°	5896.9	5976.9	6231.2	6651.7	7340.9	7111.1	6422.0	6206.6	6011.8	5981.0	5763.6
60°	5538.0	5626.1	5995.3	6631.2	7507.0	7463.9	6873.2	6684.5	6526.6	6436.3	6270.2
62.5°	4992.4	5058.0	5581.0	6499.9	7367.5	7718.3	7330.6	7201.4	7082.4	6895.8	6815.8
65°	4350.4	4372.9	4924.7	6067.1	7193.2	7816.7	7785.9	7728.5	7613.7	7338.8	7355.2
67.5°	3655.0	3700.2	4184.2	5375.9	6811.7	7771.6	8138.7	8185.9	8050.5	7638.3	7699.8
70°	2914.6	2970.0	3337.1	4420.1	6163.5	7576.7	8464.9	8540.8	8280.3	7736.7	7763.4
72.5°	1802.9	1856.2	2102.4	3070.5	4885.7	6922.4	8565.4	8663.8	8286.4	7605.5	7349.1
75°	623.5	629.7	822.5	1472.7	2900.2	5226.2	8237.2	8469.0	8025.9	7127.5	6395.3
77.5°	285.1	295.4	365.1	607.1	1286.0	2820.3	6801.4	7381.9	7234.2	6380.9	4922.6
80°	196.9	201.0	252.3	363.0	742.5	992.7	4292.9	5049.8	5308.2	4941.1	3154.6
82.5°	147.7	151.8	194.9	246.1	535.3	482.0	1634.7	2346.5	2916.7	2863.3	1318.9
85°	141.5	139.5	151.8	164.1	356.9	287.2	529.2	726.1	1138.4	974.3	332.3
87.5°	61.5	67.7	155.9	92.3	186.6	133.3	229.7	268.7	346.6	301.5	119.0
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°	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8	1638.8
2.5°	1626.5	1630.6	1642.9	1661.4	1671.6	1692.2	1706.5	1714.7	1720.9	1722.9	1722.9
5°	1612.2	1620.4	1647.0	1677.8	1706.5	1749.6	1788.6	1811.1	1827.5	1833.7	1835.7
7.5°	1616.3	1636.8	1675.7	1720.9	1757.8	1813.2	1860.3	1905.5	1942.4	1956.7	1956.7
10°	1655.2	1683.9	1737.3	1796.8	1843.9	1901.4	1950.6	1989.6	2032.6	2057.2	2061.3
12.5°	1714.7	1749.6	1819.3	1885.0	1938.3	1983.4	2028.5	2057.2	2077.8	2096.2	2100.3
15°	1798.8	1841.9	1911.6	1979.3	2026.5	2055.2	2067.5	2067.5	2065.5	2067.5	2071.6
17.5°	1882.9	1923.9	1993.7	2061.3	2083.9	2067.5	2053.1	2049.0	2047.0	2042.9	2044.9
20°	1964.9	2003.9	2063.4	2114.7	2096.2	2038.8	2020.3	2018.3	2012.1	2008.0	2003.9
22.5°	2047.0	2075.7	2124.9	2143.4	2069.6	1987.5	1964.9	1952.6	1944.4	1934.2	1923.9
25°	2141.3	2149.5	2186.5	2157.7	2003.9	1893.2	1860.3	1841.9	1833.7	1823.4	1815.2
27.5°	2229.5	2229.5	2235.7	2135.2	1907.5	1768.0	1718.8	1686.0	1683.9	1681.9	1679.8
30°	2309.5	2299.3	2278.8	2067.5	1782.4	1614.2	1540.4	1507.6	1519.9	1530.1	1532.2
32.5°	2403.9	2383.4	2325.9	1975.2	1632.7	1441.9	1351.7	1337.3	1351.7	1364.0	1355.8
35°	2551.6	2514.6	2375.2	1868.5	1489.1	1284.0	1197.8	1177.3	1173.2	1171.2	1154.8
37.5°	2762.8	2699.2	2414.1	1753.7	1347.6	1144.5	1080.9	1037.9	998.9	957.9	951.7
40°	3021.3	2912.6	2440.8	1622.4	1197.8	1027.6	959.9	904.5	838.9	767.1	758.9
42.5°	3304.3	3142.3	2453.1	1476.8	1066.6	931.2	847.1	777.4	703.5	648.1	637.9
45°	3609.9	3390.5	2442.9	1337.3	959.9	849.2	754.8	678.9	619.4	580.5	572.3
47.5°	3907.3	3675.6	2414.1	1226.6	877.9	779.4	683.0	613.3	568.2	525.1	514.8
50°	4288.8	3948.4	2379.3	1140.4	787.6	709.7	637.9	564.1	512.8	492.3	488.2
52.5°	4711.4	4221.1	2338.2	1031.7	699.4	654.3	609.2	543.5	527.1	488.2	482.0
55°	5168.8	4545.2	2330.0	894.3	621.5	615.3	580.5	562.0	566.1	488.2	477.9
57.5°	5650.8	4891.9	2348.5	756.9	557.9	580.5	592.8	578.4	572.3	498.4	477.9
60°	6153.3	5226.2	2293.1	629.7	508.7	551.7	607.1	570.2	525.1	494.3	480.0
62.5°	6641.4	5507.2	2053.1	539.4	471.8	543.5	598.9	539.4	488.2	488.2	482.0
65°	6996.3	5632.3	1606.0	473.8	447.1	533.3	584.6	518.9	477.9	492.3	484.1
67.5°	7037.3	5503.1	1078.9	422.5	426.6	514.8	551.7	500.5	467.6	504.6	492.3
70°	6785.0	5166.7	660.5	383.6	400.0	482.0	523.0	482.0	453.3	494.3	475.9
72.5°	6130.7	4539.1	465.6	350.7	371.2	451.2	496.4	465.6	432.8	447.1	428.7
75°	5029.3	3517.6	369.2	320.0	342.5	422.5	473.8	441.0	408.2	402.0	389.7
77.5°	3562.7	2254.2	297.4	295.4	311.8	387.7	443.0	412.3	379.5	367.1	358.9
80°	2049.0	1105.5	256.4	266.6	283.1	352.8	406.1	379.5	348.7	330.2	317.9
82.5°	783.5	385.6	225.6	231.8	250.2	315.9	369.2	346.6	315.9	332.3	278.9
85°	254.3	211.3	184.6	190.8	209.2	262.5	326.1	307.7	272.8	242.0	223.6
87.5°	112.8	114.9	98.5	108.7	131.3	174.3	237.9	225.6	199.0	166.1	160.0
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)