

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: P399134

Luminaire Tested: **ARCH-L-PA3-100-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399134
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-PA3-100-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15236 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

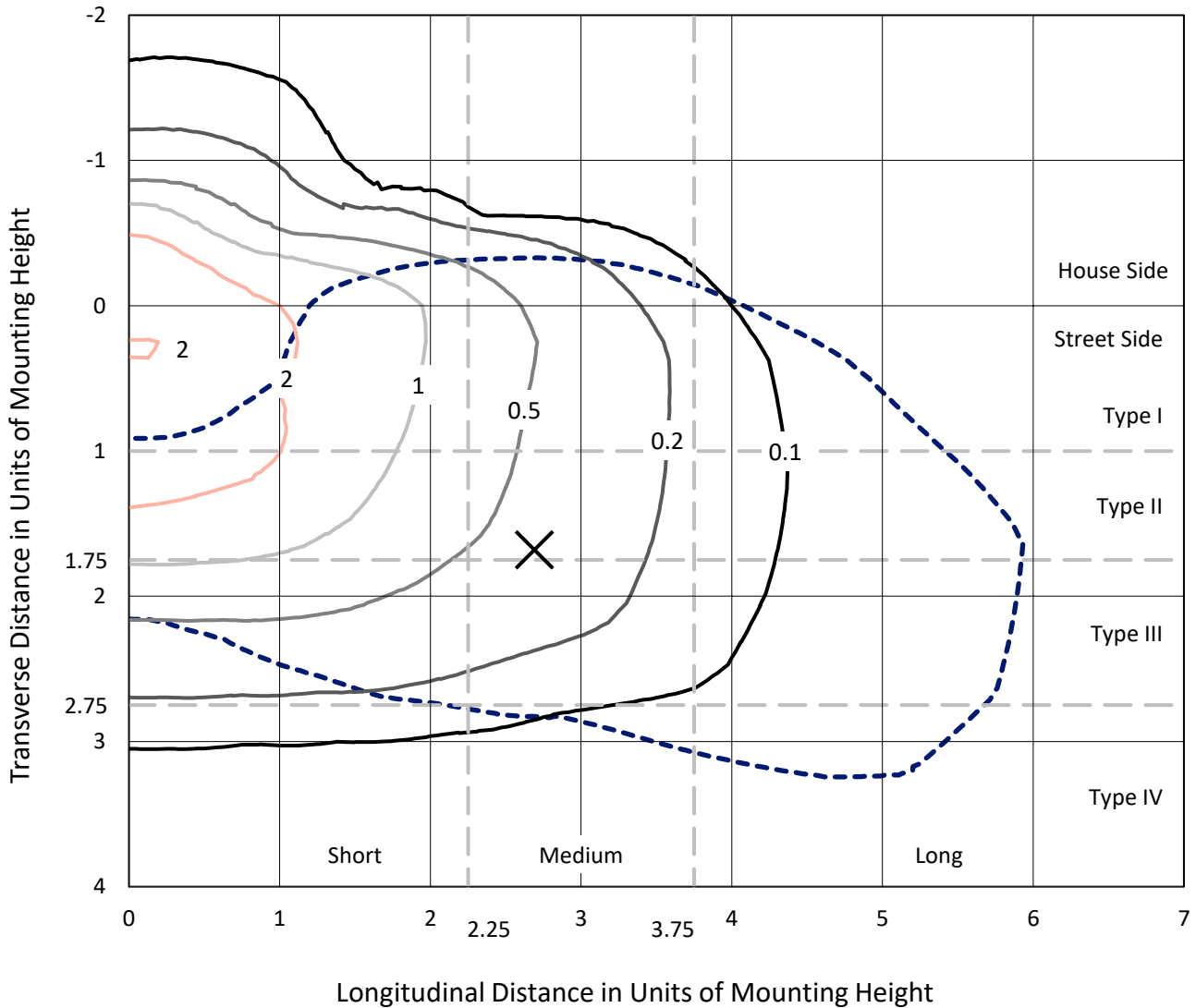
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

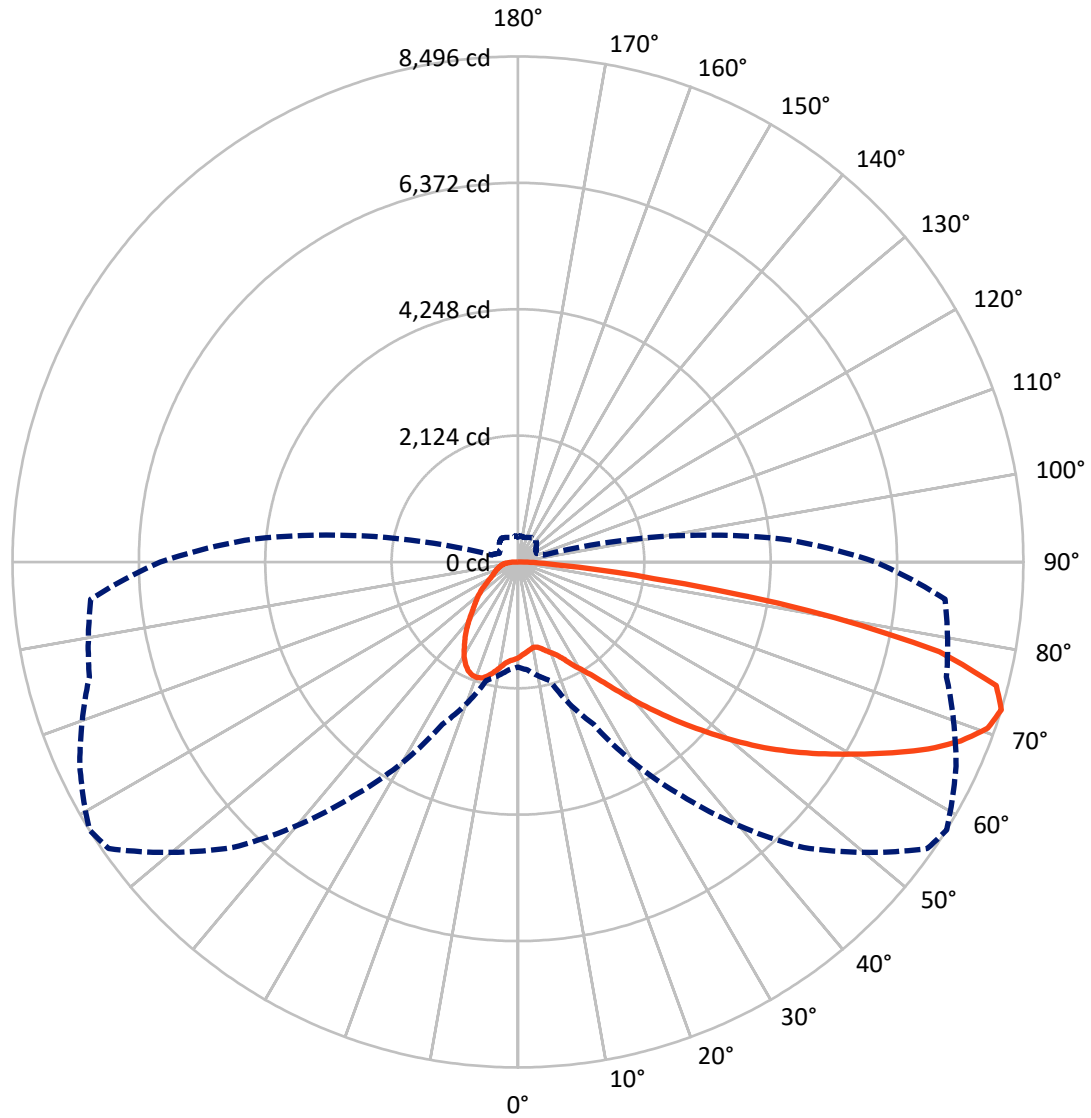
✕ Max cd
 - - - 1/2 Max cd



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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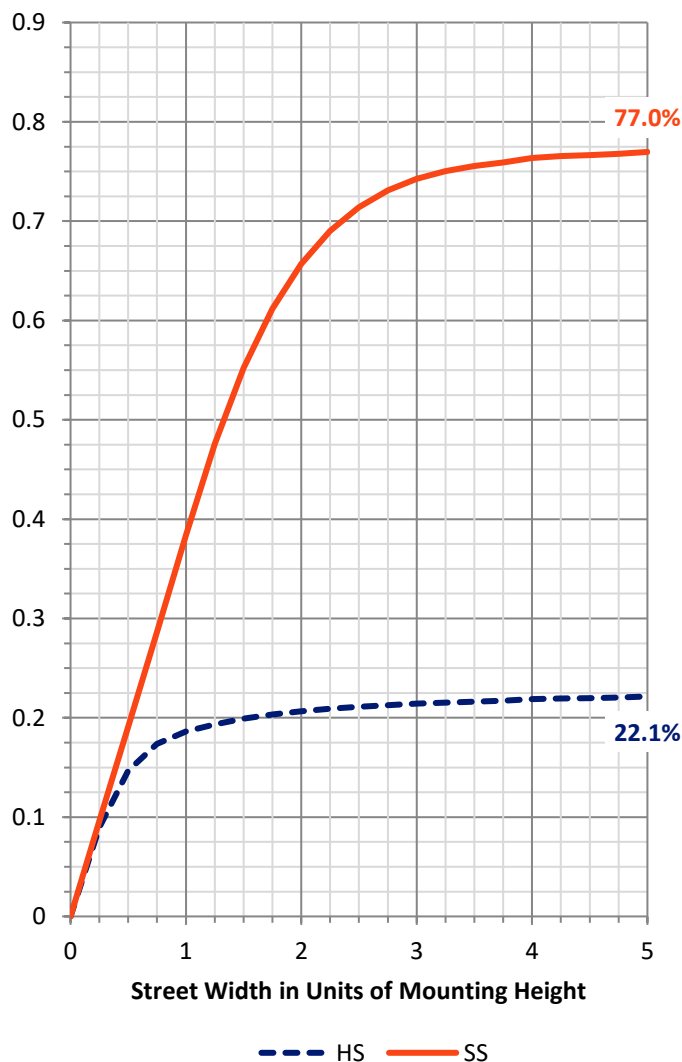
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3455.3	0.0	3455.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11780.7	0.0	11780.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	15236.0	0.0	15236.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	1.0
10°-20°	491.6	3.2
20°-30°	880.7	5.8
30°-40°	1324.8	8.7
40°-50°	2145.3	14.1
50°-60°	3229.4	21.2
60°-70°	3800.7	24.9
70°-80°	2695.0	17.7
80°-90°	513.5	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°	15236.0	100.0
0°-180°	15236.0	100.0



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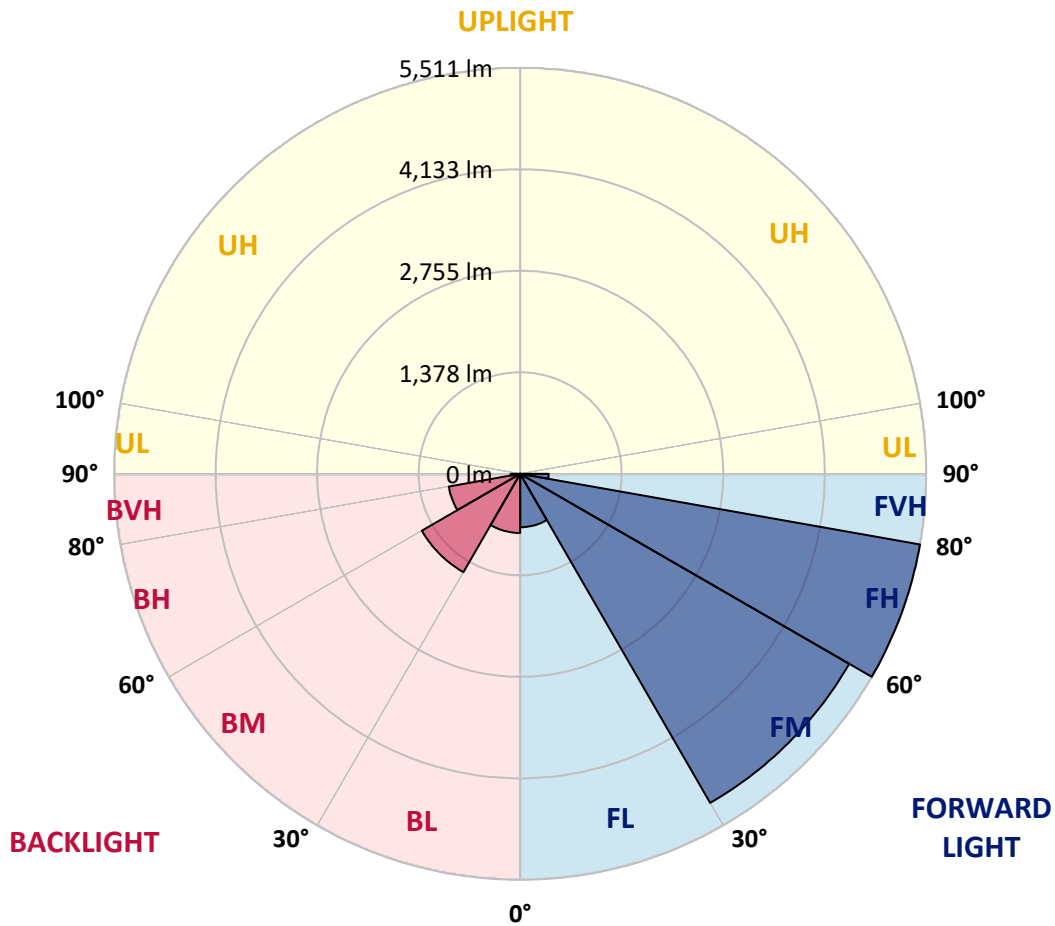
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	724.5	4.8			
FM (30°-60°)	5157.8	33.9			
FH (60°-80°)	5510.9	36.2			G3/7500
FVH (80°-90°)	387.4	2.5			G3/500
BL (0°-30°)	802.6	5.3	B2/1000		
BM (30°-60°)	1541.8	10.1	B2/2500		
BH (60°-80°)	984.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	126.2	0.8			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1
2.5°	1546.7	1538.7	1540.7	1540.7	1548.7	1552.8	1554.8	1560.8	1564.8	1574.9	1589.0
5°	1474.3	1468.3	1470.3	1472.3	1486.4	1500.5	1512.5	1520.6	1532.7	1548.7	1568.9
7.5°	1422.0	1418.0	1420.0	1424.0	1436.1	1452.2	1472.3	1484.4	1502.5	1532.7	1566.8
10°	1383.8	1383.8	1385.8	1393.9	1405.9	1426.1	1442.1	1456.2	1492.4	1546.7	1599.0
12.5°	1353.6	1353.6	1359.7	1375.8	1395.9	1416.0	1454.2	1470.3	1518.6	1593.0	1655.3
15°	1351.6	1353.6	1355.7	1369.7	1391.9	1436.1	1492.4	1516.6	1574.9	1663.4	1735.8
17.5°	1383.8	1385.8	1377.8	1381.8	1407.9	1470.3	1544.7	1572.9	1647.3	1743.8	1818.3
20°	1482.4	1482.4	1458.2	1436.1	1454.2	1522.6	1607.1	1635.2	1717.7	1824.3	1898.7
22.5°	1683.5	1693.6	1637.2	1589.0	1560.8	1599.0	1675.5	1705.6	1798.2	1912.8	1987.2
25°	1926.9	1936.9	1860.5	1792.1	1739.8	1733.8	1784.1	1816.3	1892.7	2011.4	2073.7
27.5°	2162.2	2144.1	2073.7	2009.3	1943.0	1888.7	1926.9	1955.0	2043.5	2134.0	2172.3
30°	2347.3	2333.2	2264.8	2218.5	2156.2	2085.8	2063.7	2093.8	2166.2	2250.7	2270.8
32.5°	2552.4	2542.4	2474.0	2413.6	2361.3	2295.0	2246.7	2260.8	2301.0	2361.3	2373.4
35°	2813.9	2836.0	2763.6	2640.9	2582.6	2518.2	2484.0	2488.0	2518.2	2556.4	2536.3
37.5°	3089.4	3115.6	3119.6	2926.5	2848.1	2789.8	2753.5	2767.6	2803.8	2830.0	2767.6
40°	3600.3	3574.2	3469.6	3326.8	3206.1	3149.8	3099.5	3097.5	3123.6	3169.9	3057.3
42.5°	4278.2	4254.0	4042.8	3857.8	3666.7	3602.3	3503.8	3461.5	3473.6	3531.9	3375.1
45°	4927.8	4917.8	4748.8	4533.6	4304.3	4179.6	3954.3	3851.7	3841.7	3888.0	3700.9
47.5°	5505.1	5460.8	5338.1	5171.2	5147.1	4821.2	4406.9	4268.1	4219.8	4246.0	4036.8
50°	6122.6	5971.7	5802.8	5700.2	5875.2	5571.5	4863.5	4718.6	4600.0	4618.1	4400.8
52.5°	6450.4	6197.0	6086.4	6116.5	6351.9	6235.2	5360.3	5183.3	4992.2	5018.3	4762.9
55°	6168.8	6166.8	6215.1	6402.1	6730.0	6595.2	5832.9	5633.8	5424.6	5430.7	5179.2
57.5°	5782.7	5861.1	6110.5	6522.8	7198.6	6973.4	6297.6	6086.4	5895.3	5865.1	5651.9
60°	5430.7	5517.2	5879.2	6502.7	7361.6	7319.3	6740.1	6555.0	6400.1	6311.6	6148.7
62.5°	4895.6	4960.0	5472.9	6374.0	7224.8	7568.7	7188.6	7061.9	6945.2	6762.2	6683.7
65°	4266.1	4288.2	4829.3	5949.6	7053.8	7665.3	7635.1	7578.8	7466.2	7196.6	7212.7
67.5°	3584.2	3628.5	4103.2	5271.8	6679.7	7621.0	7981.1	8027.3	7894.6	7490.3	7550.6
70°	2858.1	2912.4	3272.5	4334.5	6044.1	7430.0	8300.9	8375.3	8119.8	7586.8	7613.0
72.5°	1768.0	1820.3	2061.6	3011.0	4791.1	6788.3	8399.4	8496.0	8125.9	7458.1	7206.7
75°	611.5	617.5	806.6	1444.2	2844.1	5124.9	8077.6	8304.9	7870.4	6989.5	6271.4
77.5°	279.6	289.6	358.0	595.4	1261.1	2765.6	6669.7	7238.9	7094.1	6257.3	4827.3
80°	193.1	197.1	247.4	356.0	728.1	973.5	4209.8	4952.0	5205.4	4845.4	3093.5
82.5°	144.8	148.8	191.1	241.4	525.0	472.7	1603.1	2301.0	2860.1	2807.9	1293.3
85°	138.8	136.8	148.8	160.9	350.0	281.6	518.9	712.0	1116.3	955.4	325.8
87.5°	60.3	66.4	152.9	90.5	183.0	130.7	225.3	263.5	339.9	295.7	116.7
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°	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1
2.5°	1595.0	1599.0	1611.1	1629.2	1639.3	1659.4	1673.4	1681.5	1687.5	1689.5	1689.5
5°	1580.9	1589.0	1615.1	1645.3	1673.4	1715.7	1753.9	1776.0	1792.1	1798.2	1800.2
7.5°	1584.9	1605.1	1643.3	1687.5	1723.7	1778.0	1824.3	1868.6	1904.8	1918.8	1918.8
10°	1623.2	1651.3	1703.6	1761.9	1808.2	1864.5	1912.8	1951.0	1993.3	2017.4	2021.4
12.5°	1681.5	1715.7	1784.1	1848.4	1900.7	1945.0	1989.2	2017.4	2037.5	2055.6	2059.6
15°	1764.0	1806.2	1874.6	1941.0	1987.2	2015.4	2027.4	2027.4	2025.4	2027.4	2031.5
17.5°	1846.4	1886.7	1955.0	2021.4	2043.5	2027.4	2013.4	2009.3	2007.3	2003.3	2005.3
20°	1926.9	1965.1	2023.4	2073.7	2055.6	1999.3	1981.2	1979.2	1973.1	1969.1	1965.1
22.5°	2007.3	2035.5	2083.8	2101.9	2029.5	1949.0	1926.9	1914.8	1906.8	1896.7	1886.7
25°	2099.9	2107.9	2144.1	2115.9	1965.1	1856.5	1824.3	1806.2	1798.2	1788.1	1780.1
27.5°	2186.3	2186.3	2192.4	2093.8	1870.6	1733.8	1685.5	1653.3	1651.3	1649.3	1647.3
30°	2264.8	2254.7	2234.6	2027.4	1747.9	1582.9	1510.5	1478.3	1490.4	1500.5	1502.5
32.5°	2357.3	2337.2	2280.9	1936.9	1601.0	1414.0	1325.5	1311.4	1325.5	1337.6	1329.5
35°	2502.1	2465.9	2329.2	1832.3	1460.2	1259.1	1174.6	1154.5	1150.5	1148.5	1132.4
37.5°	2709.3	2646.9	2367.4	1719.7	1321.5	1122.3	1060.0	1017.7	979.5	939.3	933.3
40°	2962.7	2856.1	2393.5	1591.0	1174.6	1007.7	941.3	887.0	822.6	752.2	744.2
42.5°	3240.3	3081.4	2405.6	1448.2	1045.9	913.2	830.7	762.3	689.9	635.6	625.5
45°	3540.0	3324.8	2395.5	1311.4	941.3	832.7	740.2	665.8	607.4	569.2	561.2
47.5°	3831.6	3604.4	2367.4	1202.8	860.9	764.3	669.8	601.4	557.1	514.9	504.9
50°	4205.7	3871.9	2333.2	1118.3	772.4	695.9	625.5	553.1	502.8	482.7	478.7
52.5°	4620.1	4139.4	2292.9	1011.7	685.9	641.6	597.4	533.0	516.9	478.7	472.7
55°	5068.6	4457.2	2284.9	877.0	609.4	603.4	569.2	551.1	555.1	478.7	468.6
57.5°	5541.3	4797.1	2303.0	742.2	547.1	569.2	581.3	567.2	561.2	488.8	468.6
60°	6034.1	5124.9	2248.7	617.5	498.8	541.1	595.4	559.2	514.9	484.7	470.7
62.5°	6512.8	5400.5	2013.4	529.0	462.6	533.0	587.3	529.0	478.7	478.7	472.7
65°	6860.7	5523.2	1574.9	464.6	438.5	523.0	573.2	508.9	468.6	482.7	474.7
67.5°	6901.0	5396.5	1058.0	414.3	418.4	504.9	541.1	490.8	458.6	494.8	482.7
70°	6653.6	5066.6	647.7	376.1	392.2	472.7	512.9	472.7	444.5	484.7	466.6
72.5°	6011.9	4451.1	456.6	343.9	364.1	442.5	486.7	456.6	424.4	438.5	420.4
75°	4931.8	3449.5	362.0	313.8	335.9	414.3	464.6	432.4	400.3	394.2	382.2
77.5°	3493.7	2210.5	291.6	289.6	305.7	380.1	434.5	404.3	372.1	360.0	352.0
80°	2009.3	1084.1	251.4	261.5	277.6	346.0	398.2	372.1	341.9	323.8	311.8
82.5°	768.3	378.1	221.2	227.3	245.4	309.7	362.0	339.9	309.7	325.8	273.5
85°	249.4	207.2	181.0	187.1	205.2	257.5	319.8	301.7	267.5	237.3	219.2
87.5°	110.6	112.6	96.5	106.6	128.7	171.0	233.3	221.2	195.1	162.9	156.9
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)