

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: P400493

Luminaire Tested: **ARCH-L-PA3-90-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400493
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-PA3-90-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12993 lumens
Efficiency: N/A
Efficacy: 139.7 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

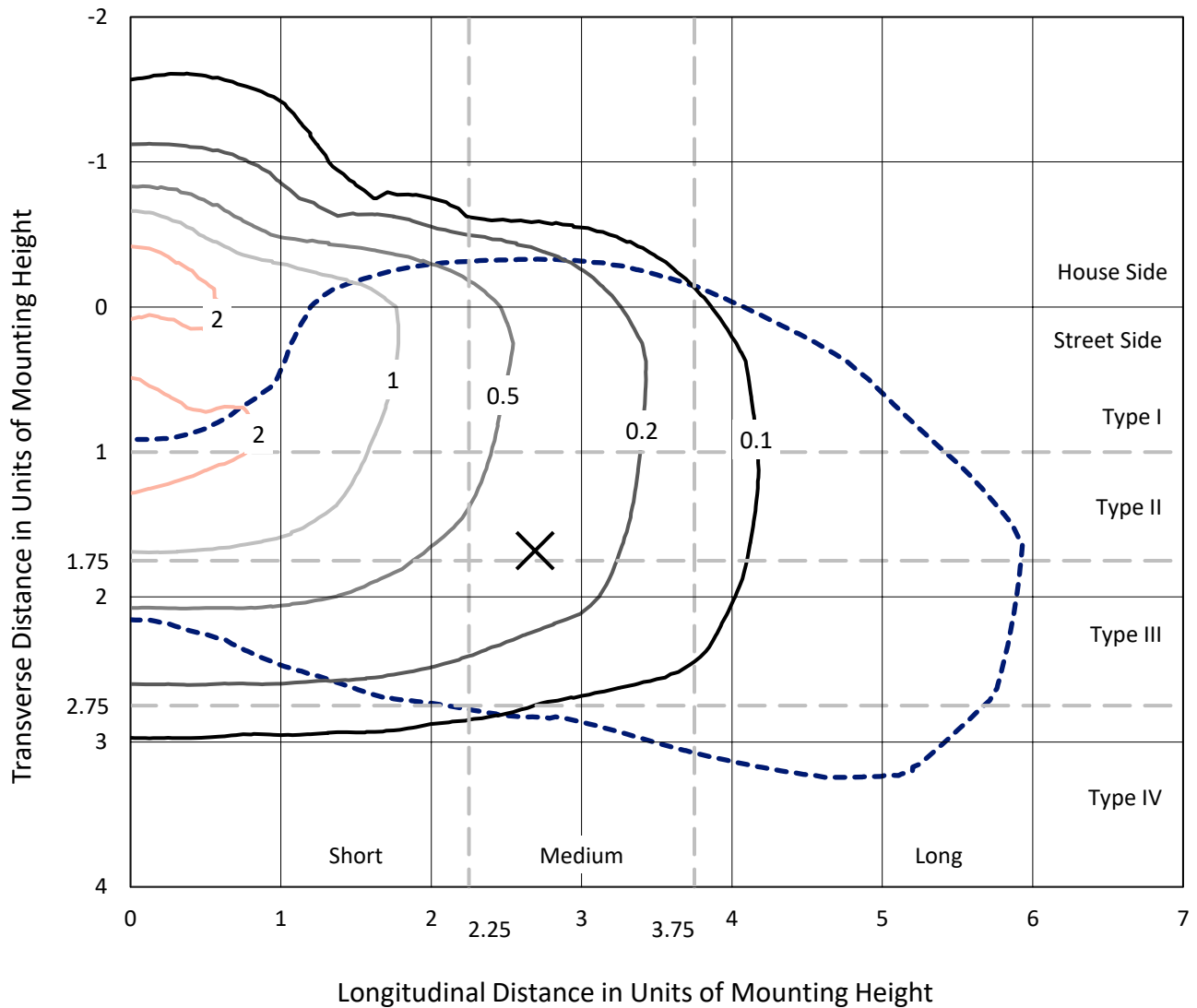
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

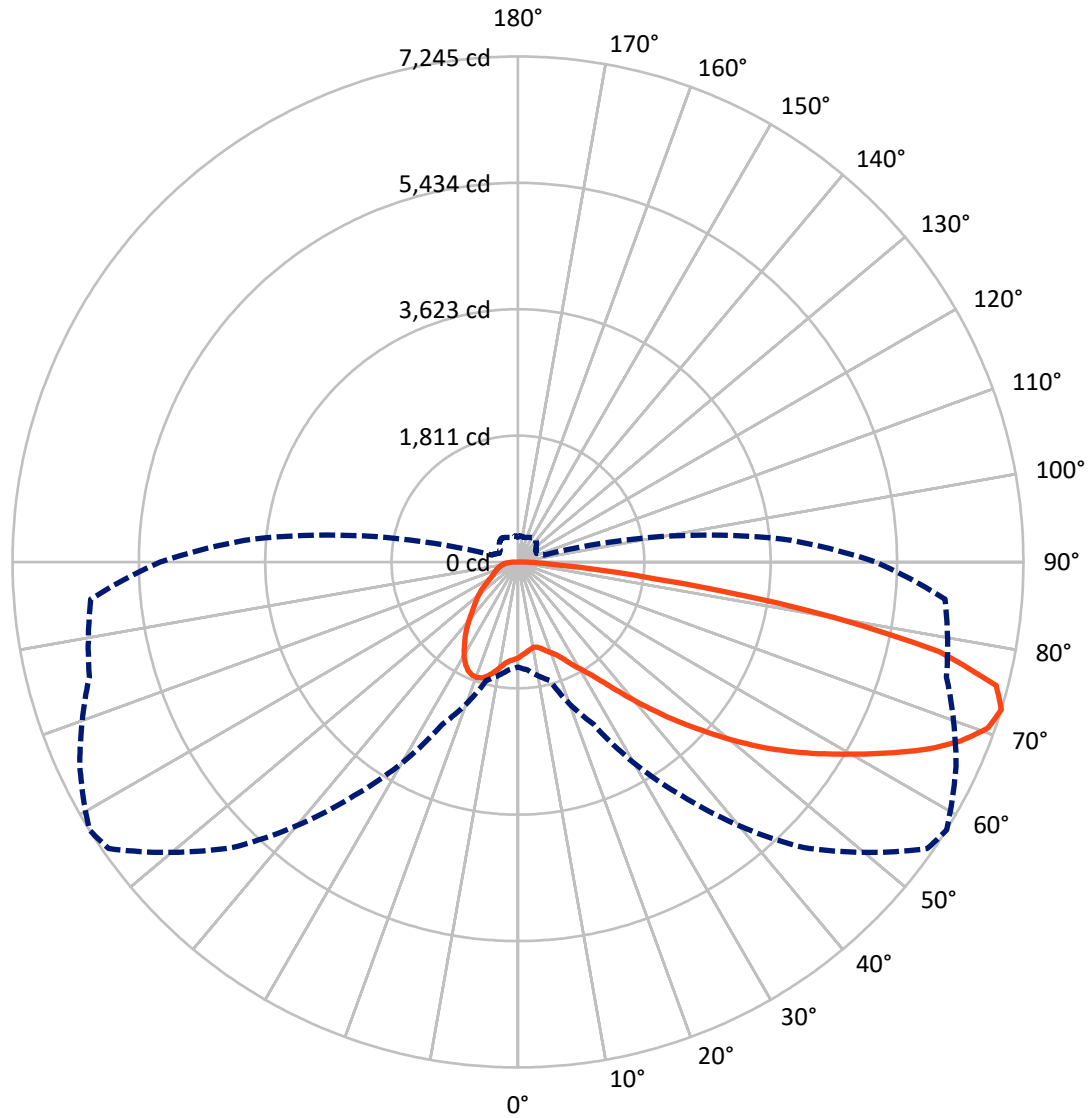
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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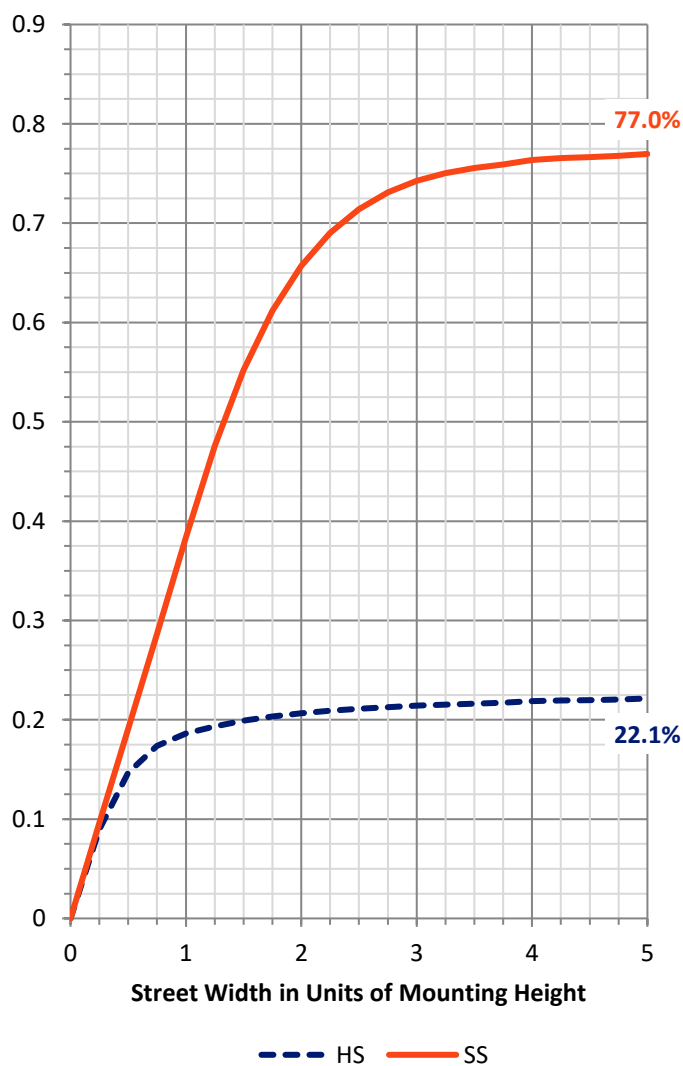
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2946.7	0.0	2946.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	10046.3	0.0	10046.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	12993.0	0.0	12993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	1.0
10°-20°	419.3	3.2
20°-30°	751.0	5.8
30°-40°	1129.8	8.7
40°-50°	1829.5	14.1
50°-60°	2754.0	21.2
60°-70°	3241.2	24.9
70°-80°	2298.3	17.7
80°-90°	437.9	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°	12993.0	100.0
0°-180°	12993.0	100.0

Coefficient of Utilization



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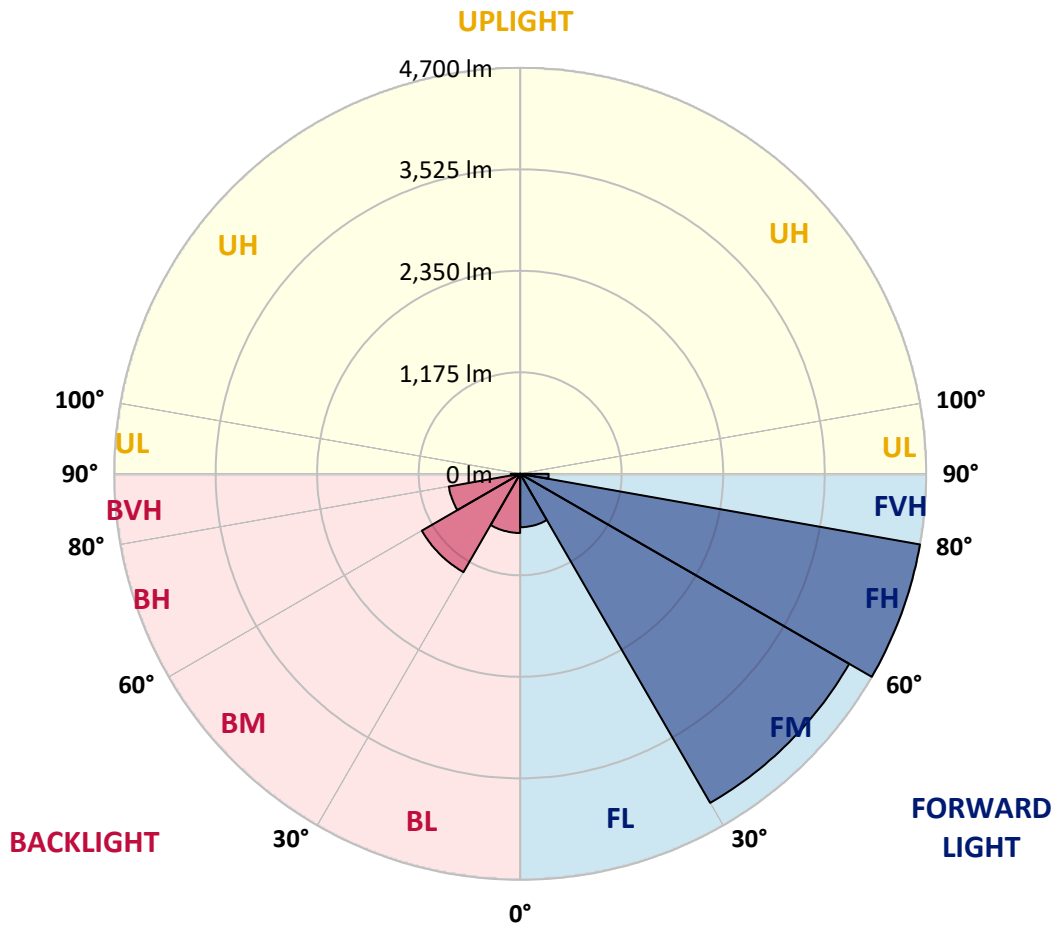
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.9	4.8			
FM (30°-60°)	4398.5	33.9			
FH (60°-80°)	4699.6	36.2			G2/5000
FVH (80°-90°)	330.3	2.5			G3/500
BL (0°-30°)	684.5	5.3	B2/1000		
BM (30°-60°)	1314.8	10.1	B2/2500		
BH (60°-80°)	839.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	107.6	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°	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1319.0	1312.2	1313.9	1313.9	1320.7	1324.2	1325.9	1331.0	1334.5	1343.0	1355.0
5°	1257.3	1252.1	1253.8	1255.6	1267.6	1279.6	1289.9	1296.7	1307.0	1320.7	1337.9
7.5°	1212.7	1209.3	1211.0	1214.4	1224.7	1238.4	1255.6	1265.9	1281.3	1307.0	1336.2
10°	1180.1	1180.1	1181.8	1188.7	1199.0	1216.1	1229.8	1241.8	1272.7	1319.0	1363.6
12.5°	1154.4	1154.4	1159.5	1173.2	1190.4	1207.5	1240.1	1253.8	1295.0	1358.5	1411.7
15°	1152.6	1154.4	1156.1	1168.1	1187.0	1224.7	1272.7	1293.3	1343.0	1418.5	1480.3
17.5°	1180.1	1181.8	1174.9	1178.4	1200.7	1253.8	1317.3	1341.3	1404.8	1487.1	1550.6
20°	1264.1	1264.1	1243.6	1224.7	1240.1	1298.4	1370.5	1394.5	1464.8	1555.7	1619.2
22.5°	1435.7	1444.2	1396.2	1355.0	1331.0	1363.6	1428.8	1454.5	1533.4	1631.2	1694.7
25°	1643.2	1651.8	1586.6	1528.3	1483.7	1478.5	1521.4	1548.9	1614.1	1715.3	1768.4
27.5°	1843.9	1828.5	1768.4	1713.5	1656.9	1610.6	1643.2	1667.2	1742.7	1819.9	1852.5
30°	2001.7	1989.7	1931.4	1891.9	1838.7	1778.7	1759.8	1785.6	1847.3	1919.4	1936.5
32.5°	2176.7	2168.1	2109.8	2058.3	2013.7	1957.1	1915.9	1927.9	1962.2	2013.7	2024.0
35°	2399.6	2418.5	2356.8	2252.1	2202.4	2147.5	2118.3	2121.8	2147.5	2180.1	2162.9
37.5°	2634.6	2656.9	2660.4	2495.7	2428.8	2379.1	2348.2	2360.2	2391.1	2413.4	2360.2
40°	3070.3	3048.0	2958.8	2837.0	2734.1	2686.1	2643.2	2641.5	2663.8	2703.2	2607.2
42.5°	3648.3	3627.8	3447.7	3289.9	3126.9	3072.0	2988.0	2951.9	2962.2	3012.0	2878.2
45°	4202.4	4193.8	4049.7	3866.2	3670.6	3564.3	3372.2	3284.7	3276.1	3315.6	3156.1
47.5°	4694.6	4656.9	4552.3	4409.9	4389.3	4111.5	3758.1	3639.8	3598.6	3620.9	3442.5
50°	5221.2	5092.6	4948.5	4861.0	5010.2	4751.2	4147.5	4024.0	3922.8	3938.2	3753.0
52.5°	5500.8	5284.7	5190.3	5216.1	5416.8	5317.3	4571.1	4420.2	4257.3	4279.6	4061.7
55°	5260.7	5259.0	5300.1	5459.6	5739.2	5624.3	4974.2	4804.4	4626.0	4631.2	4416.8
57.5°	4931.3	4998.2	5210.9	5562.6	6138.9	5946.8	5370.4	5190.3	5027.4	5001.7	4819.9
60°	4631.2	4704.9	5013.7	5545.4	6277.8	6241.8	5747.8	5590.0	5457.9	5382.5	5243.5
62.5°	4174.9	4229.8	4667.2	5435.6	6161.2	6454.5	6130.3	6022.2	5922.8	5766.7	5699.8
65°	3638.0	3656.9	4118.3	5073.7	6015.4	6536.8	6511.1	6463.1	6367.0	6137.2	6150.9
67.5°	3056.6	3094.3	3499.1	4495.7	5696.3	6499.1	6806.1	6845.6	6732.4	6387.6	6439.1
70°	2437.4	2483.7	2790.7	3696.4	5154.3	6336.1	7078.8	7142.3	6924.5	6469.9	6492.2
72.5°	1507.7	1552.3	1758.1	2567.7	4085.7	5789.0	7162.9	7245.2	6929.6	6360.1	6145.7
75°	521.4	526.6	687.8	1231.5	2425.4	4370.5	6888.4	7082.3	6711.8	5960.5	5348.2
77.5°	238.4	247.0	305.3	507.7	1075.5	2358.5	5687.8	6173.2	6049.7	5336.1	4116.6
80°	164.7	168.1	211.0	303.6	620.9	830.2	3590.0	4222.9	4439.1	4132.0	2638.1
82.5°	123.5	126.9	162.9	205.8	447.7	403.1	1367.1	1962.2	2439.1	2394.5	1102.9
85°	118.4	116.6	126.9	137.2	298.5	240.1	442.5	607.2	952.0	814.7	277.9
87.5°	51.5	56.6	130.4	77.2	156.1	111.5	192.1	224.7	289.9	252.1	99.5
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°	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1360.2	1363.6	1373.9	1389.4	1397.9	1415.1	1427.1	1433.9	1439.1	1440.8	1440.8
5°	1348.2	1355.0	1377.3	1403.1	1427.1	1463.1	1495.7	1514.6	1528.3	1533.4	1535.1
7.5°	1351.6	1368.8	1401.4	1439.1	1470.0	1516.3	1555.7	1593.5	1624.3	1636.3	1636.3
10°	1384.2	1408.2	1452.8	1502.6	1542.0	1590.0	1631.2	1663.8	1699.8	1720.4	1723.8
12.5°	1433.9	1463.1	1521.4	1576.3	1620.9	1658.6	1696.4	1720.4	1737.5	1753.0	1756.4
15°	1504.3	1540.3	1598.6	1655.2	1694.7	1718.7	1729.0	1729.0	1727.3	1729.0	1732.4
17.5°	1574.6	1608.9	1667.2	1723.8	1742.7	1729.0	1717.0	1713.5	1711.8	1708.4	1710.1
20°	1643.2	1675.8	1725.5	1768.4	1753.0	1705.0	1689.5	1687.8	1682.7	1679.2	1675.8
22.5°	1711.8	1735.8	1777.0	1792.4	1730.7	1662.1	1643.2	1632.9	1626.1	1617.5	1608.9
25°	1790.7	1797.6	1828.5	1804.4	1675.8	1583.2	1555.7	1540.3	1533.4	1524.9	1518.0
27.5°	1864.5	1864.5	1869.6	1785.6	1595.2	1478.5	1437.4	1409.9	1408.2	1406.5	1404.8
30°	1931.4	1922.8	1905.6	1729.0	1490.6	1349.9	1288.2	1260.7	1271.0	1279.6	1281.3
32.5°	2010.3	1993.1	1945.1	1651.8	1365.3	1205.8	1130.4	1118.3	1130.4	1140.6	1133.8
35°	2133.8	2102.9	1986.3	1562.6	1245.3	1073.7	1001.7	984.6	981.1	979.4	965.7
37.5°	2310.4	2257.3	2018.9	1466.5	1126.9	957.1	903.9	867.9	835.3	801.0	795.9
40°	2526.6	2435.7	2041.1	1356.8	1001.7	859.3	802.7	756.4	701.5	641.5	634.6
42.5°	2763.3	2627.8	2051.4	1235.0	891.9	778.7	708.4	650.1	588.3	542.0	533.4
45°	3018.8	2835.3	2042.9	1118.3	802.7	710.1	631.2	567.7	518.0	485.4	478.6
47.5°	3267.6	3073.7	2018.9	1025.7	734.1	651.8	571.2	512.9	475.1	439.1	430.5
50°	3586.6	3301.9	1989.7	953.7	658.7	593.5	533.4	471.7	428.8	411.7	408.2
52.5°	3939.9	3530.0	1955.4	862.8	584.9	547.2	509.4	454.5	440.8	408.2	403.1
55°	4322.4	3801.0	1948.5	747.8	519.7	514.6	485.4	470.0	473.4	408.2	399.7
57.5°	4725.5	4090.9	1964.0	632.9	466.5	485.4	495.7	483.7	478.6	416.8	399.7
60°	5145.8	4370.5	1917.7	526.6	425.4	461.4	507.7	476.8	439.1	413.4	401.4
62.5°	5554.0	4605.4	1717.0	451.1	394.5	454.5	500.9	451.1	408.2	408.2	403.1
65°	5850.7	4710.1	1343.0	396.2	373.9	446.0	488.8	434.0	399.7	411.7	404.8
67.5°	5885.0	4602.0	902.2	353.3	356.8	430.5	461.4	418.5	391.1	422.0	411.7
70°	5674.0	4320.7	552.3	320.8	334.5	403.1	437.4	403.1	379.1	413.4	397.9
72.5°	5126.9	3795.8	389.4	293.3	310.5	377.4	415.1	389.4	361.9	373.9	358.5
75°	4205.8	2941.7	308.7	267.6	286.4	353.3	396.2	368.8	341.3	336.2	325.9
77.5°	2979.4	1885.1	248.7	247.0	260.7	324.2	370.5	344.8	317.3	307.0	300.2
80°	1713.5	924.5	214.4	223.0	236.7	295.0	339.6	317.3	291.6	276.2	265.9
82.5°	655.2	322.5	188.7	193.8	209.3	264.1	308.7	289.9	264.1	277.9	233.3
85°	212.7	176.7	154.4	159.5	175.0	219.6	272.7	257.3	228.1	202.4	187.0
87.5°	94.3	96.1	82.3	90.9	109.8	145.8	199.0	188.7	166.4	138.9	133.8
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)