

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: P842514

Luminaire Tested: **ARCH4-60-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9725 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

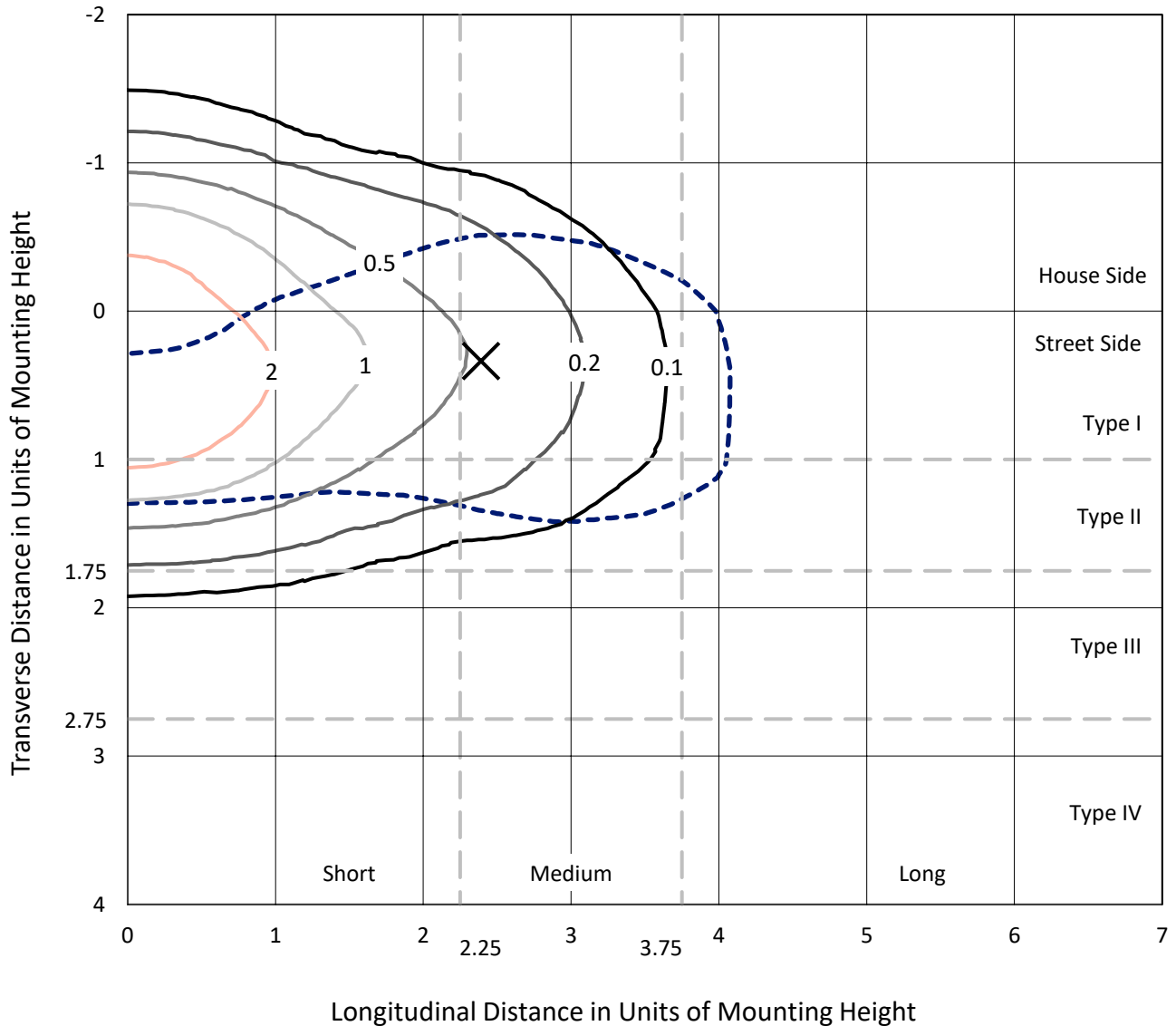
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

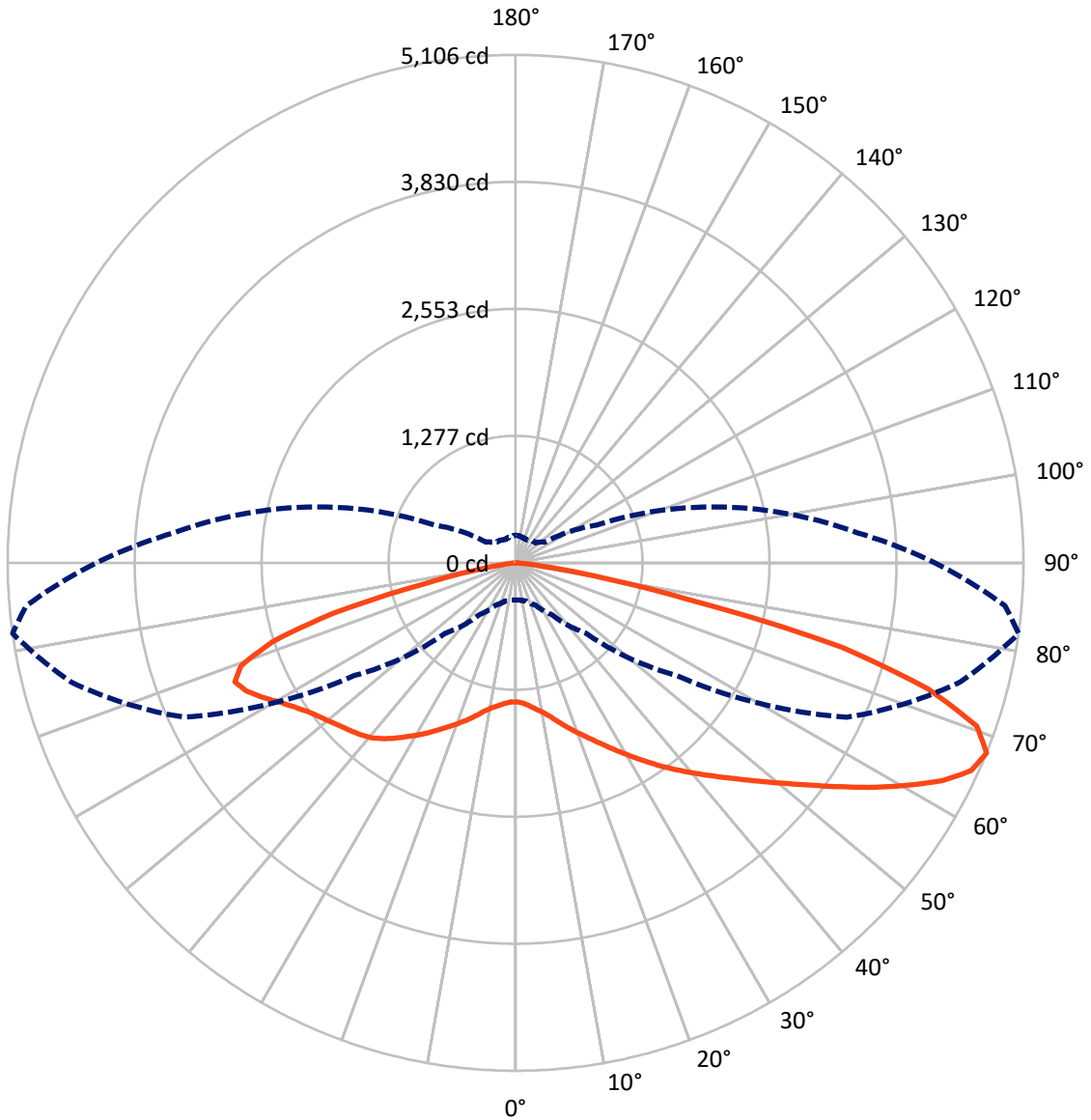
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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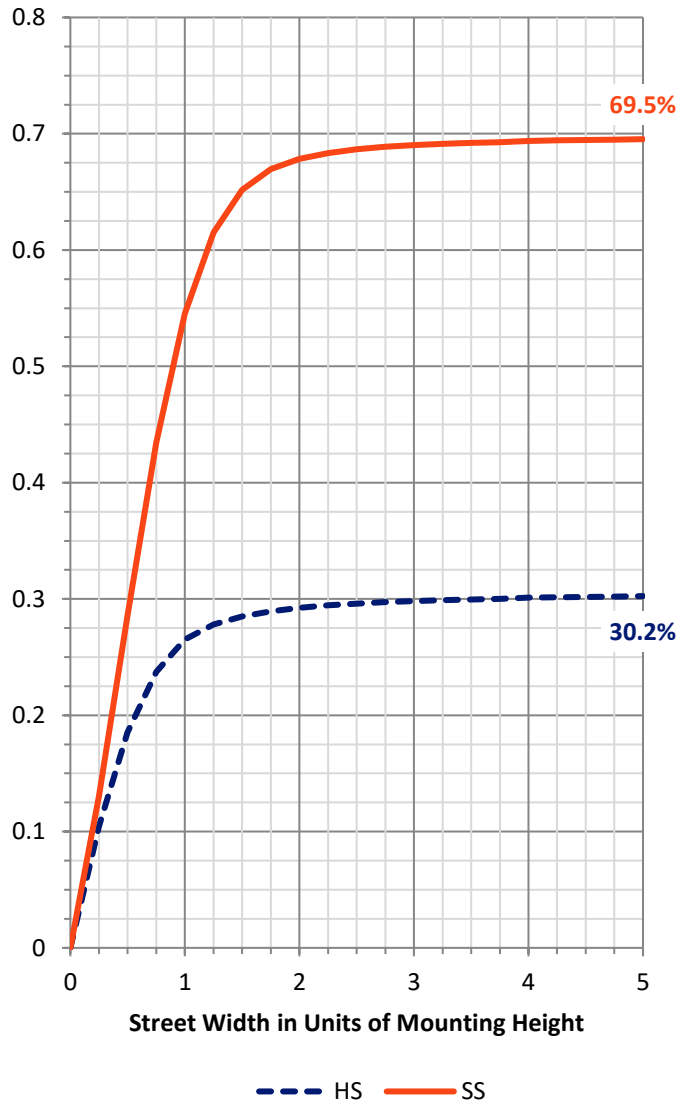
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2961.7	0.0	2961.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6763.4	0.0	6763.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	9725.0	0.0	9725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	1.5
10°-20°	520.4	5.4
20°-30°	1045.9	10.8
30°-40°	1642.9	16.9
40°-50°	2001.4	20.6
50°-60°	1891.1	19.4
60°-70°	1561.6	16.1
70°-80°	850.4	8.7
80°-90°	66.9	0.7
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°	9725.0	100.0
0°-180°	9725.0	100.0

Coefficient of Utilization

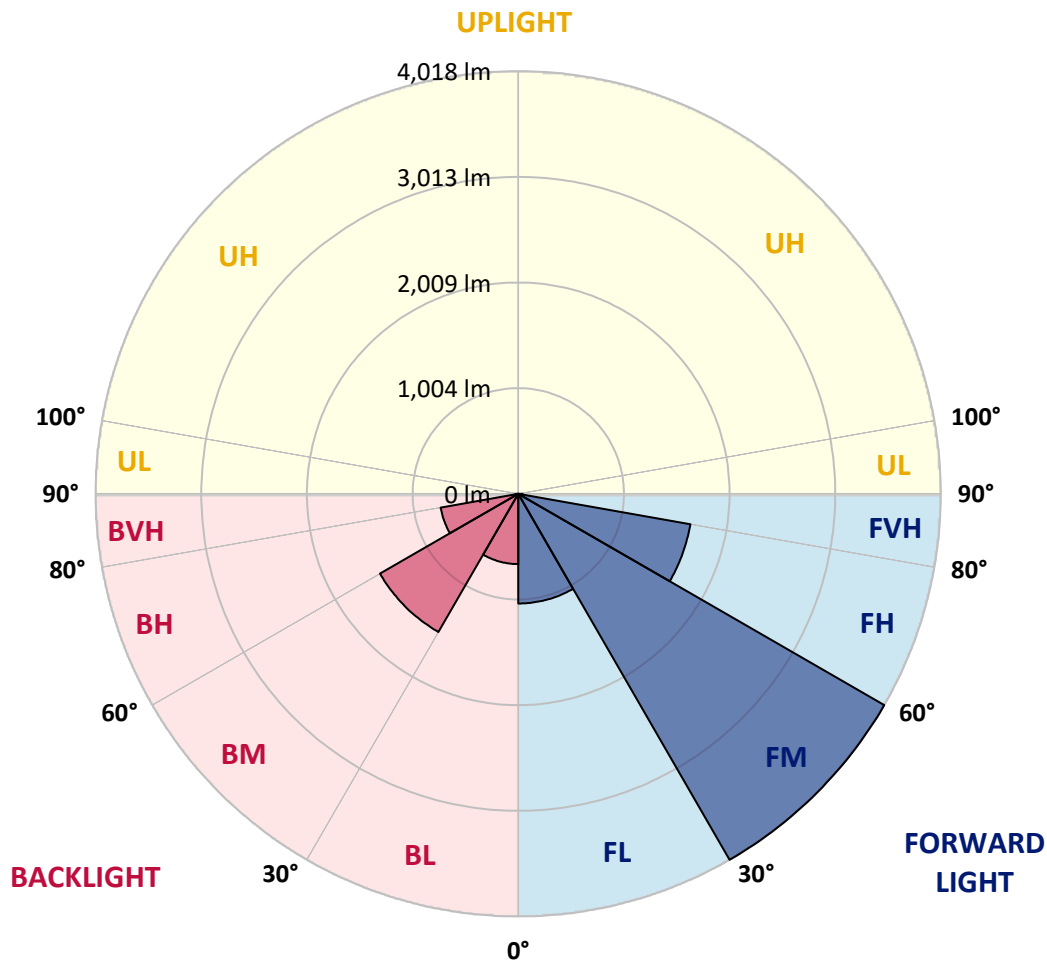


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.9	10.7			
FM (30°-60°)	4017.8	41.3			
FH (60°-80°)	1662.4	17.1			G1/1800
FVH (80°-90°)	40.3	0.4			G1/100
BL (0°-30°)	667.9	6.9	B2/1000		
BM (30°-60°)	1517.6	15.6	B2/2500		
BH (60°-80°)	749.6	7.7	B2/1000		G2/1000
BVH (80°-90°)	26.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1461.5	1461.5	1472.8	1472.8	1462.9	1447.4	1443.2	1426.2	1410.7	1410.7	1412.1
5°	1601.3	1599.9	1608.4	1597.1	1573.1	1542.0	1520.8	1484.1	1453.0	1443.2	1441.7
7.5°	1772.2	1770.8	1775.0	1756.6	1711.4	1660.6	1618.2	1558.9	1508.1	1486.9	1481.3
10°	1962.8	1961.4	1957.1	1926.1	1865.4	1786.3	1722.7	1640.8	1564.6	1530.7	1523.6
12.5°	2181.7	2178.8	2169.0	2123.8	2040.5	1938.8	1847.0	1741.1	1639.4	1592.8	1577.3
15°	2426.0	2421.7	2403.4	2348.3	2236.7	2108.2	1989.6	1854.1	1729.8	1669.1	1647.9
17.5°	2683.0	2683.0	2654.7	2572.8	2448.6	2289.0	2142.1	1969.9	1824.4	1749.6	1724.2
20°	2944.2	2942.8	2907.5	2808.6	2661.8	2478.2	2291.8	2102.6	1921.8	1831.5	1800.4
22.5°	3219.6	3216.7	3173.0	3060.0	2884.9	2677.3	2459.9	2233.9	2029.2	1920.4	1880.9
25°	3535.9	3531.6	3478.0	3339.6	3132.0	2897.6	2649.1	2387.8	2152.0	2019.3	1972.7
27.5°	3871.9	3866.3	3802.7	3641.8	3414.4	3132.0	2858.1	2565.8	2287.6	2129.4	2077.2
30°	4171.3	4167.1	4097.9	3932.7	3671.4	3365.0	3057.2	2743.7	2430.2	2246.6	2181.7
32.5°	4397.2	4397.2	4335.1	4172.7	3901.6	3588.1	3257.7	2911.7	2578.5	2372.3	2296.0
35°	4534.2	4538.4	4484.8	4354.9	4099.3	3798.5	3465.3	3109.4	2736.6	2506.5	2424.5
37.5°	4554.0	4568.1	4537.0	4449.5	4236.3	3973.6	3668.6	3300.0	2900.4	2642.0	2550.2
40°	4462.2	4472.1	4473.5	4439.6	4292.7	4099.3	3847.9	3502.0	3074.1	2784.6	2678.7
42.5°	4278.6	4285.7	4298.4	4308.3	4251.8	4154.4	3984.9	3689.8	3259.1	2930.1	2805.8
45°	4041.4	4040.0	4061.2	4103.5	4100.7	4123.3	4061.2	3860.6	3451.1	3095.3	2947.0
47.5°	3687.0	3679.9	3754.7	3850.8	3898.8	4004.7	4062.6	3994.8	3660.1	3277.4	3108.0
50°	3132.0	3124.9	3288.7	3514.7	3655.9	3816.9	3984.9	4075.3	3879.0	3482.2	3283.1
52.5°	2457.0	2450.0	2657.5	3052.9	3360.8	3595.2	3828.2	4093.6	4086.6	3711.0	3480.8
55°	1827.2	1821.6	2023.5	2451.4	2949.8	3338.2	3636.1	4045.6	4281.4	3973.6	3720.8
57.5°	1287.8	1285.0	1460.1	1814.5	2421.7	3024.7	3451.1	3952.4	4460.8	4258.8	3992.0
60°	903.7	899.5	1026.6	1300.5	1831.5	2551.6	3267.6	3828.2	4594.9	4539.9	4280.0
62.5°	608.6	605.8	696.2	924.9	1300.5	1964.2	2989.4	3744.8	4671.2	4822.3	4570.9
65°	461.8	460.3	501.3	627.0	920.7	1410.7	2547.4	3735.0	4681.1	5034.1	4818.0
67.5°	372.8	374.2	396.8	468.8	636.9	1002.6	1975.5	3672.8	4628.8	5106.1	4938.1
70°	305.0	305.0	314.9	362.9	470.2	676.4	1379.6	3390.4	4483.4	4918.3	4795.4
72.5°	233.0	234.4	265.5	293.7	354.4	474.5	884.0	2805.8	4140.2	4336.5	4243.3
75°	185.0	183.6	201.9	241.5	275.4	338.9	542.2	2012.2	3523.2	3389.0	3329.7
77.5°	132.7	131.3	145.4	179.3	209.0	240.1	323.4	1015.3	1916.2	1760.9	1717.1
80°	90.4	87.5	100.3	124.3	138.4	141.2	158.2	389.7	836.0	787.9	778.1
82.5°	46.6	46.6	53.7	70.6	72.0	73.4	70.6	125.7	276.8	258.4	247.1
85°	18.4	18.4	19.8	24.0	24.0	25.4	25.4	32.5	29.7	28.2	26.8
87.5°	1.4	1.4	2.8	2.8	4.2	4.2	4.2	5.6	7.1	7.1	7.1
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°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1409.3	1403.6	1385.3	1381.0	1378.2	1374.0	1375.4	1365.5	1361.2	1362.7	1357.0
5°	1434.7	1424.8	1402.2	1392.3	1389.5	1385.3	1389.5	1382.4	1375.4	1378.2	1375.4
7.5°	1470.0	1455.9	1427.6	1417.7	1416.3	1412.1	1417.7	1412.1	1406.4	1409.3	1403.6
10°	1506.7	1488.3	1457.3	1447.4	1447.4	1446.0	1451.6	1443.2	1437.5	1438.9	1436.1
12.5°	1560.4	1536.3	1502.5	1494.0	1489.7	1494.0	1495.4	1484.1	1474.2	1475.6	1471.4
15°	1625.3	1598.5	1561.8	1549.1	1546.2	1544.8	1539.2	1525.1	1512.3	1510.9	1506.7
17.5°	1695.9	1662.0	1618.2	1605.5	1592.8	1588.6	1574.5	1556.1	1536.3	1536.3	1530.7
20°	1763.7	1725.6	1673.3	1655.0	1636.6	1619.7	1595.7	1566.0	1540.6	1536.3	1530.7
22.5°	1837.1	1791.9	1731.2	1704.4	1671.9	1638.0	1597.1	1557.5	1525.1	1518.0	1513.8
25°	1919.0	1862.5	1790.5	1751.0	1698.7	1646.5	1585.8	1534.9	1496.8	1485.5	1482.7
27.5°	2009.4	1941.6	1854.1	1796.2	1719.9	1638.0	1560.4	1499.6	1453.0	1438.9	1434.7
30°	2101.2	2020.7	1912.0	1827.2	1719.9	1611.2	1513.8	1443.2	1389.5	1369.7	1366.9
32.5°	2193.0	2102.6	1964.2	1844.2	1703.0	1566.0	1453.0	1369.7	1309.0	1285.0	1290.6
35°	2303.1	2193.0	2012.2	1851.2	1674.7	1510.9	1383.8	1286.4	1224.3	1203.1	1207.3
37.5°	2417.5	2283.3	2050.3	1845.6	1635.2	1448.8	1306.2	1211.6	1133.9	1097.2	1101.4
40°	2516.3	2365.2	2077.2	1825.8	1584.4	1378.2	1229.9	1105.7	998.3	963.0	958.8
42.5°	2609.5	2426.0	2091.3	1796.2	1526.5	1296.3	1121.2	961.6	854.3	810.5	811.9
45°	2707.0	2485.3	2085.6	1756.6	1454.4	1200.3	981.4	820.4	725.8	686.3	687.7
47.5°	2818.5	2548.8	2080.0	1714.3	1366.9	1076.0	847.3	696.2	614.3	586.0	583.2
50°	2937.1	2619.4	2072.9	1662.0	1269.5	937.6	714.5	580.4	511.2	492.8	488.6
52.5°	3071.3	2695.7	2068.7	1599.9	1152.3	790.8	595.9	478.7	432.1	419.4	418.0
55°	3232.3	2784.6	2074.4	1525.1	1011.1	652.4	495.6	412.3	381.3	374.2	372.8
57.5°	3428.5	2899.0	2091.3	1437.5	862.8	532.4	422.2	371.4	351.6	346.0	346.0
60°	3641.8	3028.9	2122.4	1338.7	714.5	439.2	374.2	338.9	330.4	337.5	337.5
62.5°	3871.9	3181.4	2177.4	1218.6	576.1	371.4	336.1	312.1	306.4	320.5	322.0
65°	4085.2	3329.7	2212.7	1074.6	457.5	322.0	306.4	285.2	288.1	302.2	300.8
67.5°	4216.5	3452.5	2163.3	893.8	362.9	285.2	275.4	257.0	264.1	275.4	276.8
70°	4136.0	3383.4	1919.0	675.0	283.8	248.5	241.5	230.2	235.8	249.9	255.6
72.5°	3742.0	3030.3	1492.6	456.1	228.8	209.0	211.8	206.2	213.2	225.9	238.6
75°	3037.4	2290.4	1001.2	292.3	180.7	177.9	182.2	177.9	180.7	193.5	200.5
77.5°	1585.8	1117.0	498.5	182.2	134.1	138.4	145.4	146.9	155.3	158.2	161.0
80°	739.9	502.7	207.6	101.7	89.0	97.4	111.6	113.0	115.8	120.0	121.4
82.5°	241.5	151.1	96.0	55.1	50.8	55.1	72.0	86.1	87.5	96.0	96.0
85°	25.4	15.5	21.2	22.6	19.8	24.0	32.5	31.1	14.1	8.5	8.5
87.5°	7.1	5.6	7.1	7.1	5.6	5.6	4.2	1.4	0.0	0.0	0.0
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)