

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: P836703

Luminaire Tested: **ARCH3-60-740-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10990 lumens
Efficiency: N/A
Efficacy: 173.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

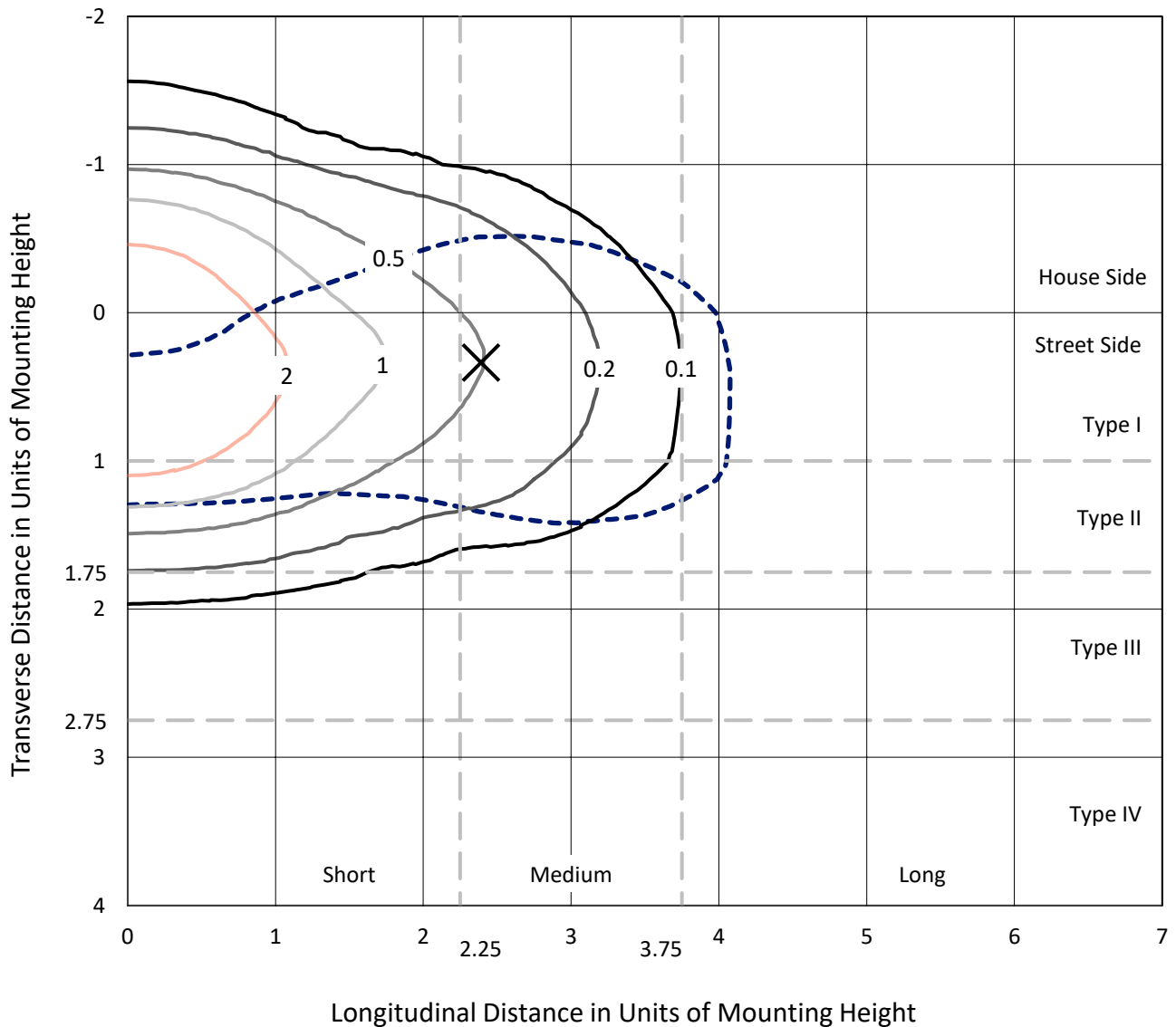
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

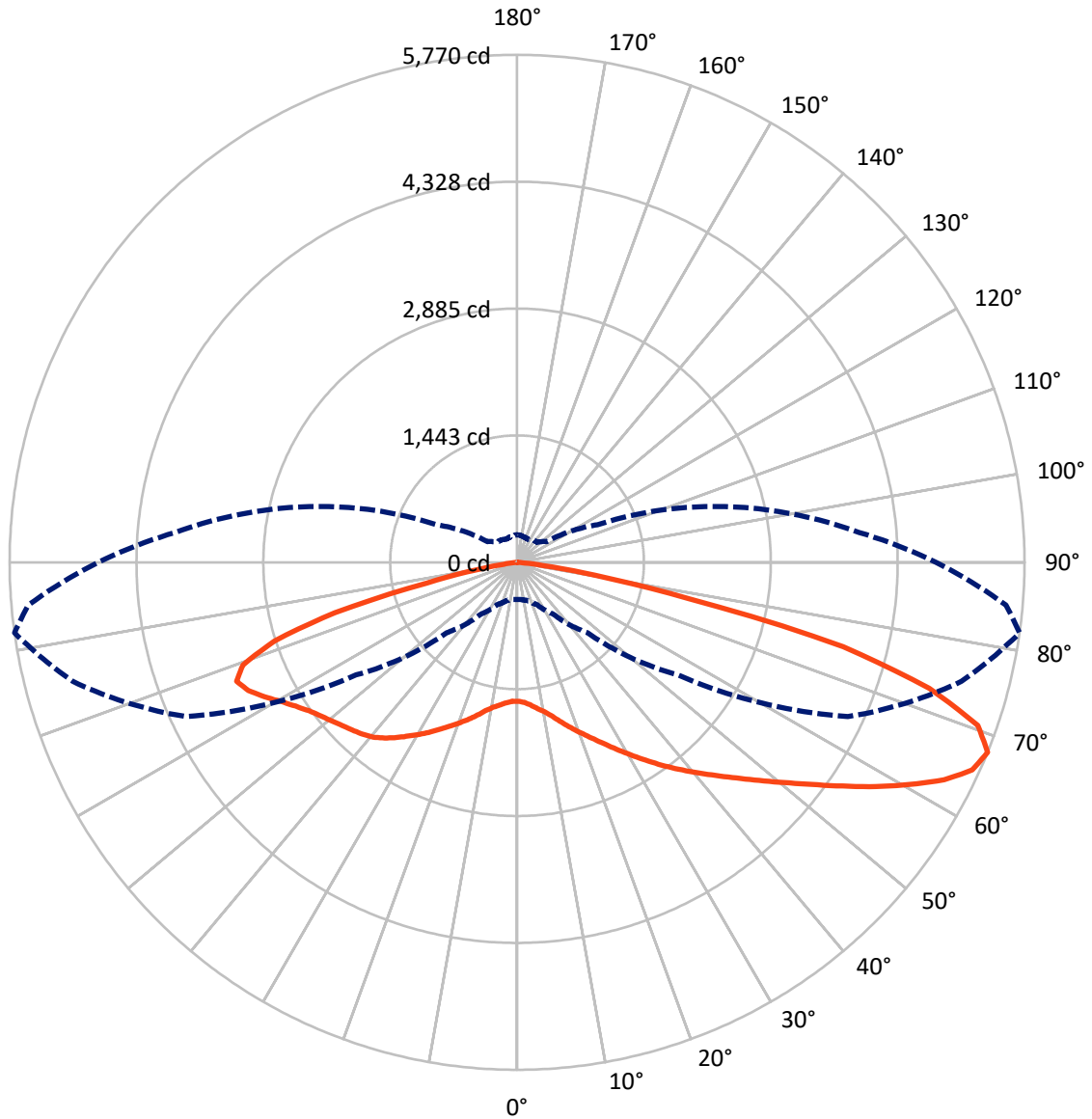
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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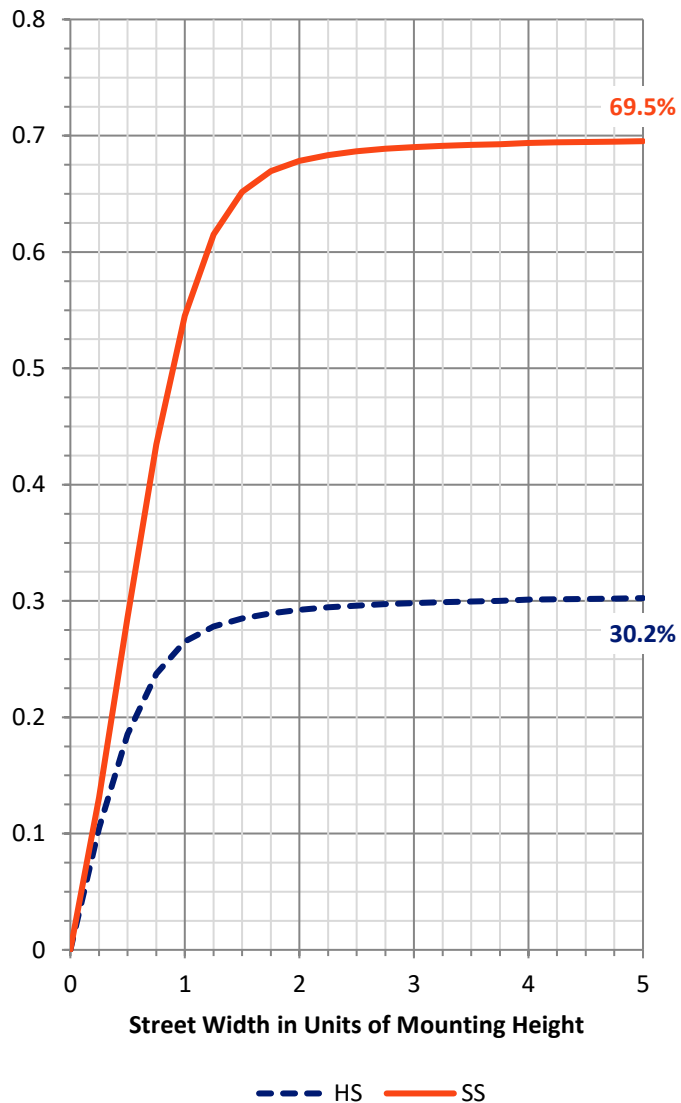
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3346.9	0.0	3346.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7643.1	0.0	7643.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	10990.0	0.0	10990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	1.5
10°-20°	588.1	5.4
20°-30°	1181.9	10.8
30°-40°	1856.6	16.9
40°-50°	2261.7	20.6
50°-60°	2137.1	19.4
60°-70°	1764.7	16.1
70°-80°	961.0	8.7
80°-90°	75.6	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°	10990.0	100.0
0°-180°	10990.0	100.0

Coefficient of Utilization

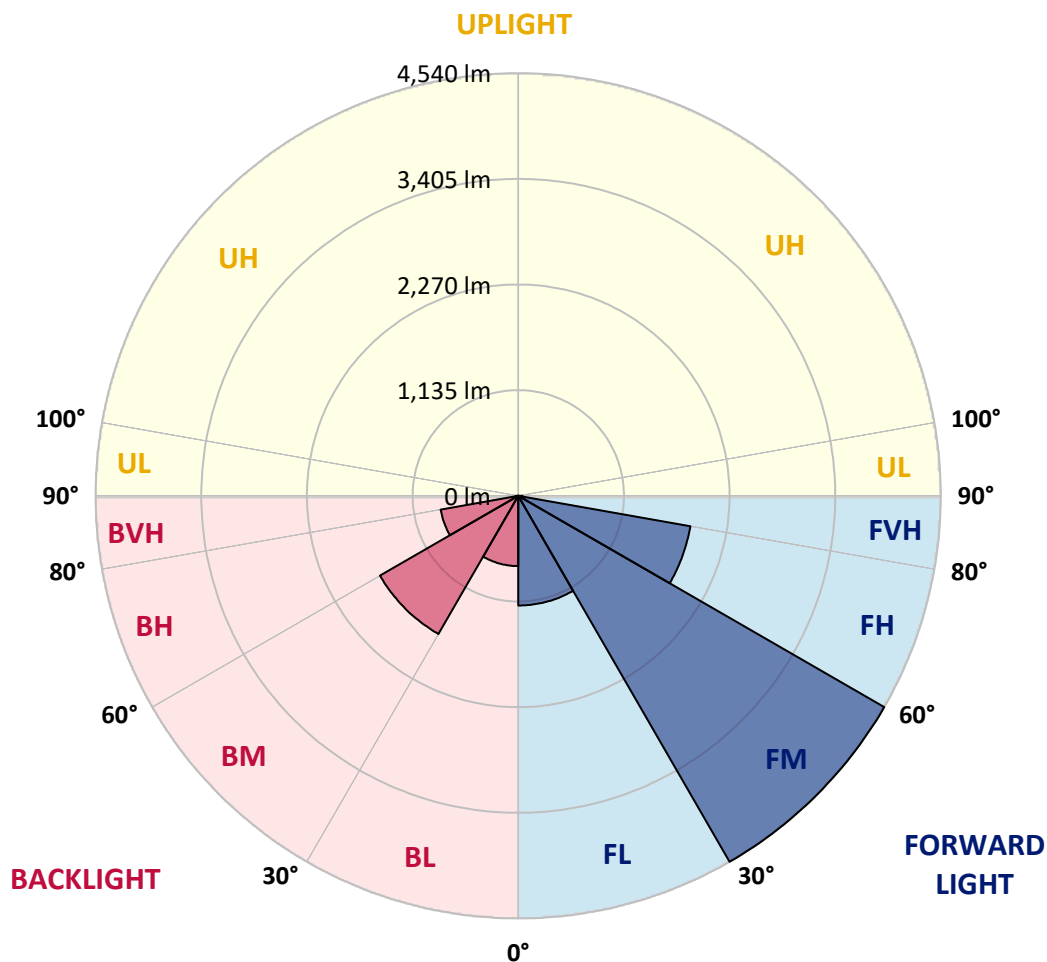


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1178.5	10.7			
FM (30°-60°)	4540.4	41.3			
FH (60°-80°)	1878.6	17.1			G2/5000
FVH (80°-90°)	45.5	0.4			G1/100
BL (0°-30°)	754.7	6.9	B2/1000		
BM (30°-60°)	1715.0	15.6	B2/2500		
BH (60°-80°)	847.1	7.7	B2/1000		G2/1000
BVH (80°-90°)	30.0	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°	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8
2.5°	1651.6	1651.6	1664.4	1664.4	1653.2	1635.7	1630.9	1611.7	1594.2	1594.2	1595.8
5°	1809.6	1808.0	1817.6	1804.8	1777.7	1742.6	1718.6	1677.1	1642.0	1630.9	1629.3
7.5°	2002.7	2001.1	2005.9	1985.1	1934.1	1876.6	1828.7	1761.7	1704.3	1680.3	1674.0
10°	2218.1	2216.5	2211.7	2176.6	2108.0	2018.6	1946.8	1854.3	1768.1	1729.8	1721.8
12.5°	2465.5	2462.3	2451.1	2400.0	2305.9	2191.0	2087.3	1967.6	1852.7	1800.0	1782.5
15°	2741.5	2736.7	2716.0	2653.8	2527.7	2382.5	2248.4	2095.2	1954.8	1886.2	1862.3
17.5°	3032.0	3032.0	3000.0	2907.5	2767.1	2586.7	2420.8	2226.1	2061.7	1977.2	1948.4
20°	3327.2	3325.6	3285.7	3174.0	3008.0	2800.6	2589.9	2376.1	2171.8	2069.7	2034.6
22.5°	3638.3	3635.2	3585.7	3458.0	3260.1	3025.6	2779.8	2524.5	2293.1	2170.2	2125.6
25°	3995.8	3991.0	3930.4	3774.0	3539.4	3274.5	2993.7	2698.4	2431.9	2281.9	2229.3
27.5°	4375.6	4369.2	4297.4	4115.5	3858.6	3539.4	3229.8	2899.5	2585.1	2406.4	2347.4
30°	4713.9	4709.1	4630.9	4444.2	4149.0	3802.7	3454.8	3100.6	2746.3	2538.9	2465.5
32.5°	4969.2	4969.2	4899.0	4715.5	4409.1	4054.8	3681.4	3290.5	2913.9	2680.9	2594.7
35°	5124.0	5128.8	5068.1	4921.3	4632.5	4292.6	3916.0	3513.9	3092.6	2832.5	2739.9
37.5°	5146.3	5162.3	5127.2	5028.3	4787.3	4490.5	4145.8	3729.3	3277.7	2985.7	2882.0
40°	5042.6	5053.8	5055.4	5017.1	4851.1	4632.5	4348.5	3957.5	3474.0	3146.8	3027.2
42.5°	4835.2	4843.1	4857.5	4868.7	4804.8	4694.7	4503.2	4169.7	3683.0	3311.2	3170.8
45°	4567.1	4565.5	4589.4	4637.3	4634.1	4659.6	4589.4	4362.8	3900.0	3497.9	3330.4
47.5°	4166.5	4158.6	4243.1	4351.6	4405.9	4525.6	4591.0	4514.4	4136.2	3703.8	3512.3
50°	3539.4	3531.4	3716.5	3971.9	4131.4	4313.4	4503.2	4605.4	4383.6	3935.2	3710.2
52.5°	2776.6	2768.7	3003.2	3450.0	3797.9	4062.8	4326.1	4626.1	4618.1	4193.7	3933.6
55°	2064.9	2058.5	2286.7	2770.2	3333.6	3772.4	4109.1	4571.9	4838.4	4490.5	4204.8
57.5°	1455.3	1452.1	1650.0	2050.6	2736.7	3418.1	3900.0	4466.5	5041.0	4812.8	4511.2
60°	1021.3	1016.5	1160.1	1469.7	2069.7	2883.5	3692.6	4326.1	5192.6	5130.4	4836.8
62.5°	687.8	684.6	786.7	1045.2	1469.7	2219.7	3378.2	4232.0	5278.8	5449.5	5165.5
65°	521.8	520.2	566.5	708.5	1040.4	1594.2	2878.8	4220.8	5290.0	5688.9	5444.7
67.5°	421.3	422.9	448.4	529.8	719.7	1133.0	2232.5	4150.6	5230.9	5770.3	5580.4
70°	344.7	344.7	355.9	410.1	531.4	764.4	1559.1	3831.4	5066.6	5558.0	5419.2
72.5°	263.3	264.9	300.0	331.9	400.5	536.2	998.9	3170.8	4678.8	4900.6	4795.3
75°	209.0	207.4	228.2	272.9	311.2	383.0	612.8	2274.0	3981.4	3829.8	3762.8
77.5°	150.0	148.4	164.4	202.7	236.2	271.3	365.4	1147.4	2165.5	1989.9	1940.4
80°	102.1	98.9	113.3	140.4	156.4	159.6	178.7	440.4	944.7	890.4	879.3
82.5°	52.7	52.7	60.6	79.8	81.4	83.0	79.8	142.0	312.8	292.0	279.3
85°	20.7	20.7	22.3	27.1	27.1	28.7	28.7	36.7	33.5	31.9	30.3
87.5°	1.6	1.6	3.2	3.2	4.8	4.8	4.8	6.4	8.0	8.0	8.0
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°	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8	1579.8
2.5°	1592.6	1586.2	1565.4	1560.7	1557.5	1552.7	1554.3	1543.1	1538.3	1539.9	1533.5
5°	1621.3	1610.1	1584.6	1573.4	1570.2	1565.4	1570.2	1562.3	1554.3	1557.5	1554.3
7.5°	1661.2	1645.2	1613.3	1602.1	1600.6	1595.8	1602.1	1595.8	1589.4	1592.6	1586.2
10°	1702.7	1681.9	1646.8	1635.7	1635.7	1634.1	1640.4	1630.9	1624.5	1626.1	1622.9
12.5°	1763.3	1736.2	1697.9	1688.3	1683.5	1688.3	1689.9	1677.1	1666.0	1667.6	1662.8
15°	1836.7	1806.4	1764.9	1750.6	1747.4	1745.8	1739.4	1723.4	1709.1	1707.5	1702.7
17.5°	1916.5	1878.2	1828.7	1814.4	1800.0	1795.2	1779.3	1758.5	1736.2	1736.2	1729.8
20°	1993.1	1950.0	1891.0	1870.2	1849.5	1830.3	1803.2	1769.7	1741.0	1736.2	1729.8
22.5°	2076.1	2025.0	1956.4	1926.1	1889.4	1851.1	1804.8	1760.1	1723.4	1715.4	1710.7
25°	2168.6	2104.8	2023.4	1978.7	1919.7	1860.7	1792.0	1734.6	1691.5	1678.7	1675.6
27.5°	2270.8	2194.2	2095.2	2029.8	1943.6	1851.1	1763.3	1694.7	1642.0	1626.1	1621.3
30°	2374.5	2283.5	2160.7	2064.9	1943.6	1820.8	1710.7	1630.9	1570.2	1547.9	1544.7
32.5°	2478.2	2376.1	2219.7	2084.1	1924.5	1769.7	1642.0	1547.9	1479.3	1452.1	1458.5
35°	2602.7	2478.2	2274.0	2092.0	1892.6	1707.5	1563.8	1453.7	1383.5	1359.6	1364.4
37.5°	2731.9	2580.4	2317.0	2085.7	1847.9	1637.3	1476.1	1369.2	1281.4	1239.9	1244.7
40°	2843.7	2672.9	2347.4	2063.3	1790.4	1557.5	1389.9	1249.5	1128.2	1088.3	1083.5
42.5°	2949.0	2741.5	2363.3	2029.8	1725.0	1464.9	1267.0	1086.7	965.4	916.0	917.6
45°	3059.1	2808.5	2356.9	1985.1	1643.6	1356.4	1109.1	927.1	820.2	775.5	777.1
47.5°	3185.1	2880.4	2350.6	1937.3	1544.7	1216.0	957.5	786.7	694.2	662.2	659.1
50°	3319.2	2960.1	2342.6	1878.2	1434.6	1059.6	807.5	655.9	577.7	556.9	552.1
52.5°	3470.8	3046.3	2337.8	1808.0	1302.1	893.6	673.4	541.0	488.3	473.9	472.3
55°	3652.7	3146.8	2344.2	1723.4	1142.6	737.2	560.1	466.0	430.9	422.9	421.3
57.5°	3874.5	3276.1	2363.3	1624.5	975.0	601.6	477.1	419.7	397.3	391.0	391.0
60°	4115.5	3422.9	2398.4	1512.8	807.5	496.3	422.9	383.0	373.4	381.4	381.4
62.5°	4375.6	3595.3	2460.7	1377.1	651.1	419.7	379.8	352.7	346.3	362.2	363.8
65°	4616.5	3762.8	2500.6	1214.4	517.0	363.8	346.3	322.3	325.5	341.5	339.9
67.5°	4765.0	3901.6	2444.7	1010.1	410.1	322.3	311.2	290.4	298.4	311.2	312.8
70°	4674.0	3823.5	2168.6	762.8	320.7	280.9	272.9	260.1	266.5	282.5	288.8
72.5°	4228.8	3424.5	1686.7	515.4	258.5	236.2	239.4	233.0	241.0	255.3	269.7
75°	3432.5	2588.3	1131.4	330.3	204.3	201.1	205.9	201.1	204.3	218.6	226.6
77.5°	1792.0	1262.2	563.3	205.9	151.6	156.4	164.4	166.0	175.5	178.7	181.9
80°	836.2	568.1	234.6	114.9	100.5	110.1	126.1	127.7	130.9	135.6	137.2
82.5°	272.9	170.7	108.5	62.2	57.4	62.2	81.4	97.3	98.9	108.5	108.5
85°	28.7	17.6	23.9	25.5	22.3	27.1	36.7	35.1	16.0	9.6	9.6
87.5°	8.0	6.4	8.0	8.0	6.4	6.4	4.8	1.6	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)