

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: P399197

Luminaire Tested: **ARCH-L-PA3-110-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399197
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-PA3-110-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15292 lumens
Efficiency: N/A
Efficacy: 135.3 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

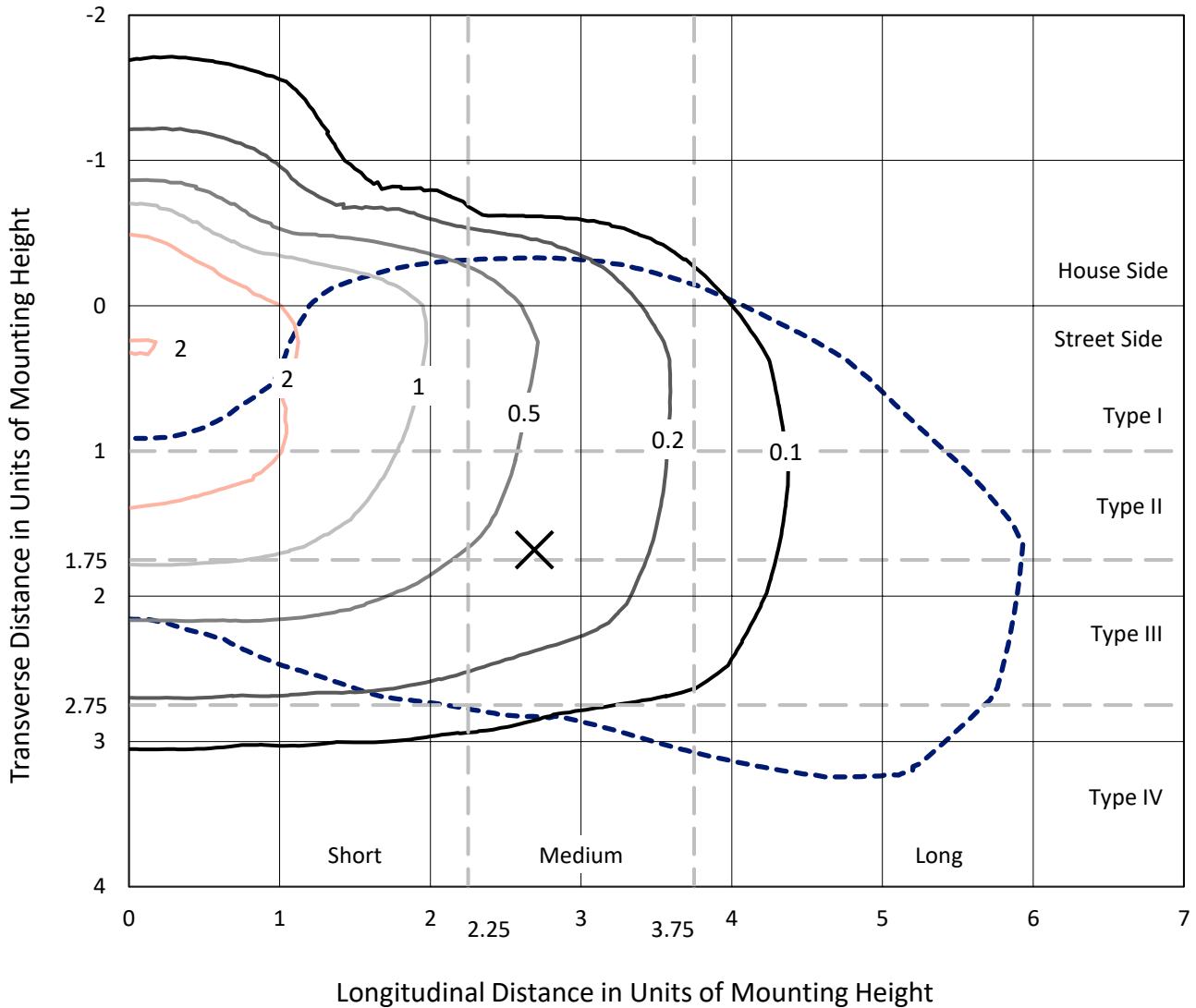
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

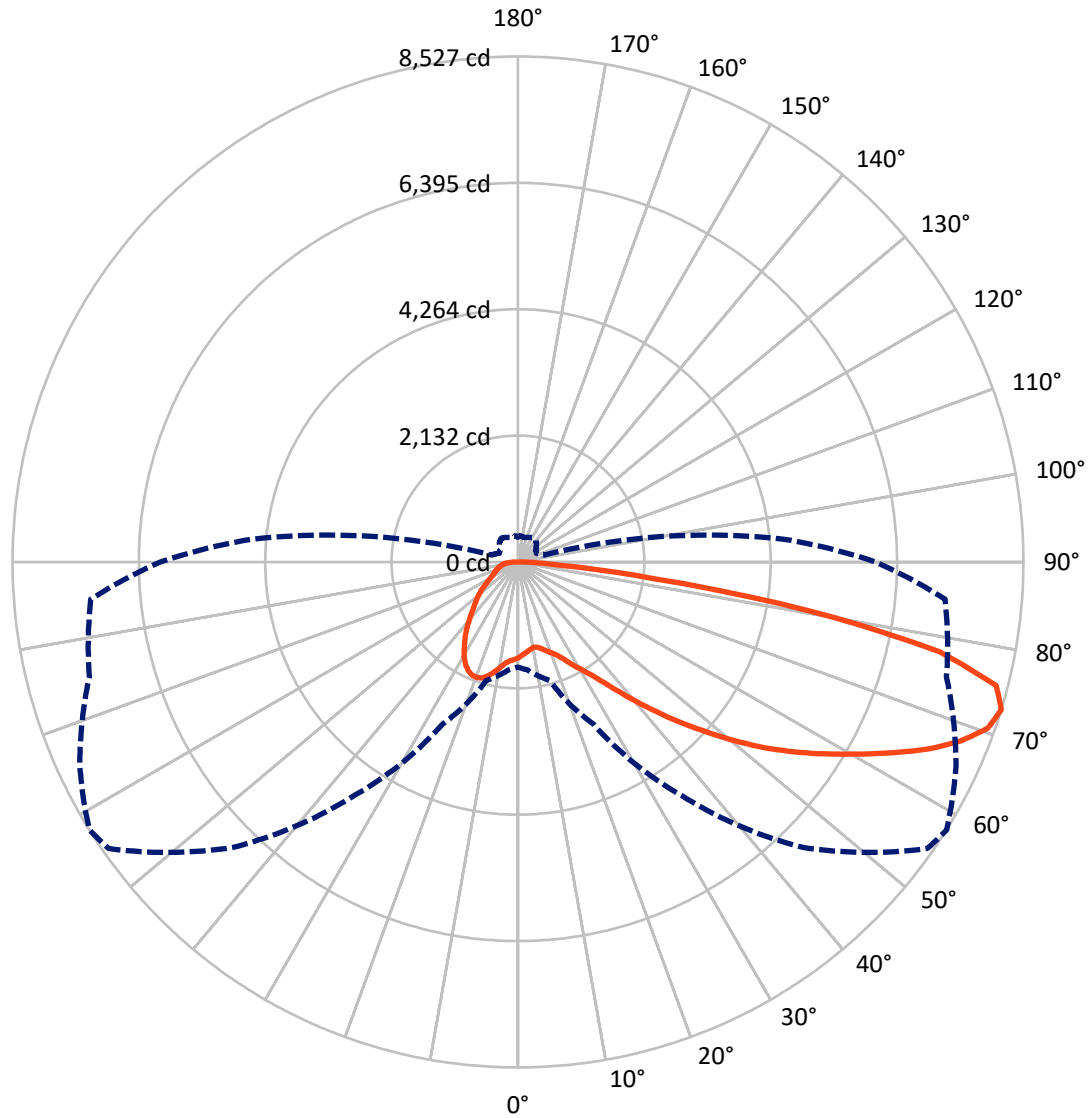
✕ Max cd
 - - - 1/2 Max cd



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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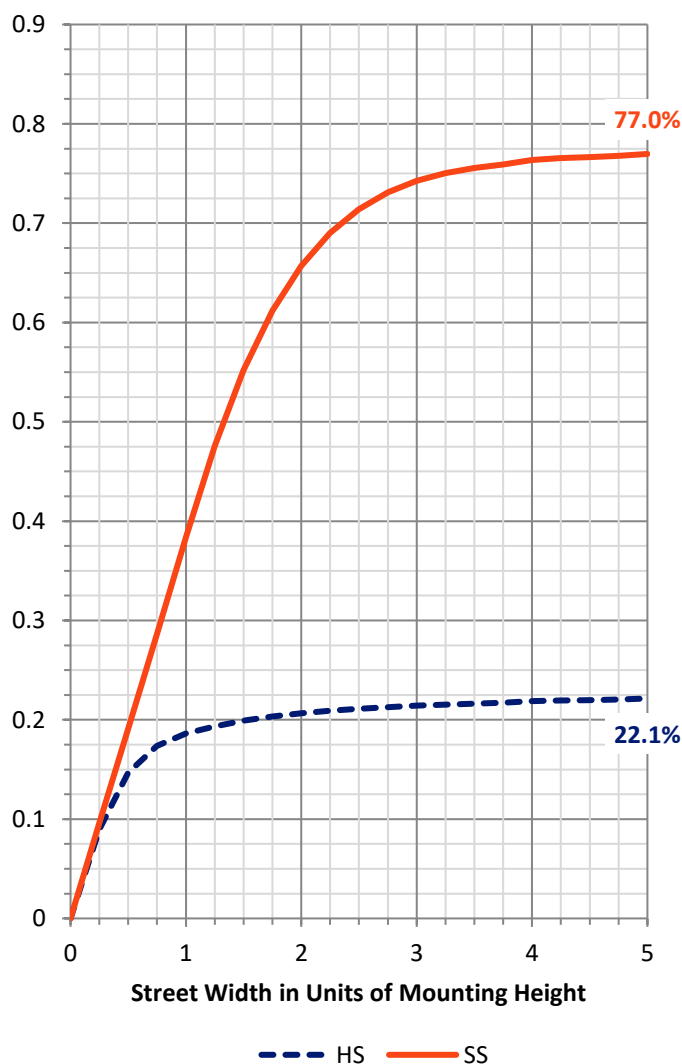
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3468.0	0.0	3468.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11823.9	0.0	11823.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	15292.0	0.0	15292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.0
10°-20°	493.5	3.2
20°-30°	883.9	5.8
30°-40°	1329.7	8.7
40°-50°	2153.2	14.1
50°-60°	3241.3	21.2
60°-70°	3814.7	24.9
70°-80°	2704.9	17.7
80°-90°	515.4	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°	15292.0	100.0
0°-180°	15292.0	100.0

Coefficient of Utilization



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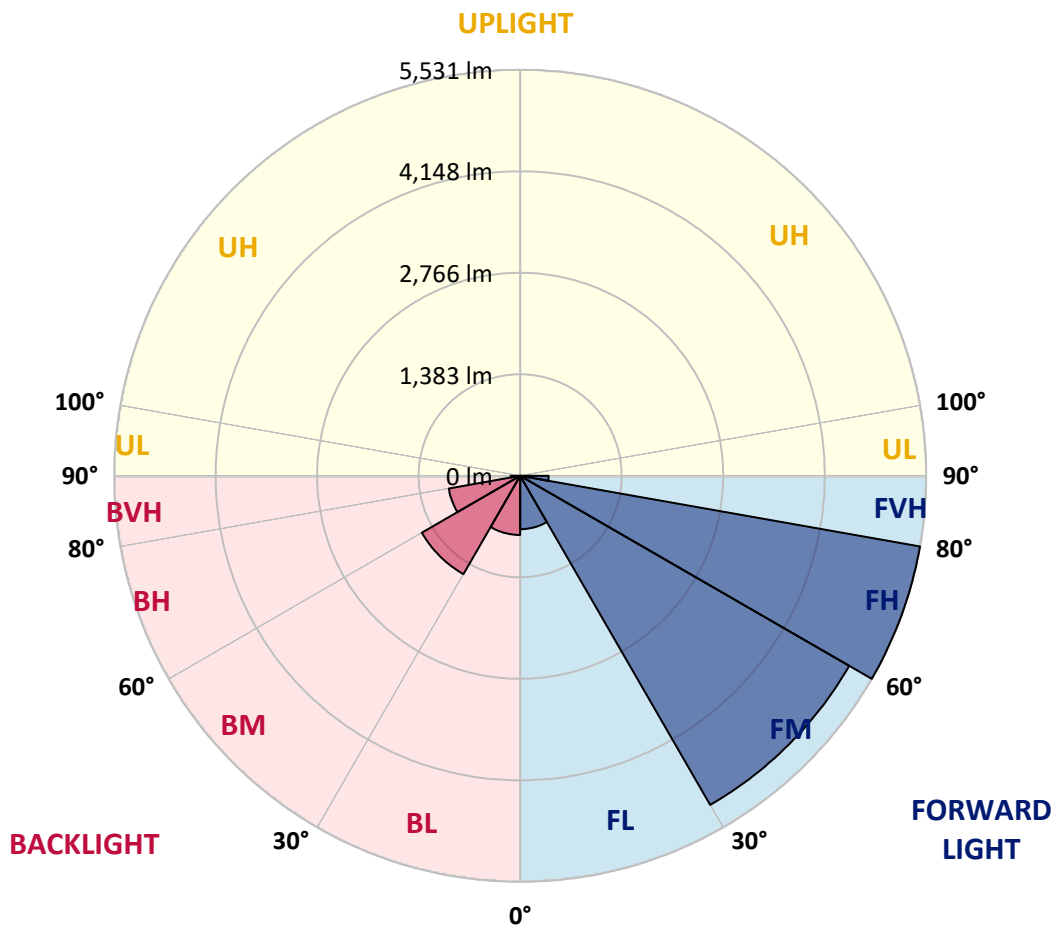
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	727.2	4.8			
FM (30°-60°)	5176.8	33.9			
FH (60°-80°)	5531.2	36.2			G3/7500
FVH (80°-90°)	388.8	2.5			G3/500
BL (0°-30°)	805.6	5.3	B2/1000		
BM (30°-60°)	1547.4	10.1	B2/2500		
BH (60°-80°)	988.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	126.6	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°	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0
2.5°	1552.4	1544.3	1546.4	1546.4	1554.4	1558.5	1560.5	1566.5	1570.6	1580.7	1594.8
5°	1479.7	1473.7	1475.7	1477.7	1491.9	1506.0	1518.1	1526.2	1538.3	1554.4	1574.6
7.5°	1427.3	1423.2	1425.2	1429.3	1441.4	1457.5	1477.7	1489.8	1508.0	1538.3	1572.6
10°	1388.9	1388.9	1390.9	1399.0	1411.1	1431.3	1447.4	1461.6	1497.9	1552.4	1604.9
12.5°	1358.6	1358.6	1364.7	1380.8	1401.0	1421.2	1459.6	1475.7	1524.2	1598.8	1661.4
15°	1356.6	1358.6	1360.6	1374.8	1397.0	1441.4	1497.9	1522.1	1580.7	1669.5	1742.2
17.5°	1388.9	1390.9	1382.8	1386.9	1413.1	1475.7	1550.4	1578.7	1653.4	1750.3	1824.9
20°	1487.8	1487.8	1463.6	1441.4	1459.6	1528.2	1613.0	1641.2	1724.0	1831.0	1905.7
22.5°	1689.7	1699.8	1643.3	1594.8	1566.5	1604.9	1681.6	1711.9	1804.8	1919.8	1994.5
25°	1934.0	1944.1	1867.3	1798.7	1746.2	1740.2	1790.6	1822.9	1899.6	2018.7	2081.3
27.5°	2170.2	2152.0	2081.3	2016.7	1950.1	1895.6	1934.0	1962.2	2051.0	2141.9	2180.2
30°	2355.9	2341.7	2273.1	2226.7	2164.1	2093.4	2071.2	2101.5	2174.2	2259.0	2279.2
32.5°	2561.8	2551.7	2483.1	2422.5	2370.0	2303.4	2254.9	2269.1	2309.4	2370.0	2382.1
35°	2824.2	2846.4	2773.8	2650.6	2592.1	2527.5	2493.2	2497.2	2527.5	2565.8	2545.6
37.5°	3100.8	3127.0	3131.1	2937.3	2858.5	2800.0	2763.7	2777.8	2814.1	2840.4	2777.8
40°	3613.6	3587.3	3482.3	3339.0	3217.9	3161.4	3110.9	3108.9	3135.1	3181.5	3068.5
42.5°	4293.9	4269.7	4057.7	3872.0	3680.2	3615.6	3516.7	3474.3	3486.4	3544.9	3387.5
45°	4945.9	4935.8	4766.3	4550.3	4320.1	4195.0	3968.9	3865.9	3855.8	3902.2	3714.5
47.5°	5525.3	5480.9	5357.8	5190.2	5166.0	4838.9	4423.1	4283.8	4235.3	4261.6	4051.6
50°	6145.1	5993.7	5824.1	5721.1	5896.8	5591.9	4881.3	4736.0	4616.9	4635.0	4417.0
52.5°	6474.1	6219.8	6108.7	6139.0	6375.2	6258.1	5380.0	5202.3	5010.5	5036.8	4780.4
55°	6191.5	6189.5	6237.9	6425.7	6754.7	6619.5	5854.4	5654.5	5444.6	5450.6	5198.3
57.5°	5803.9	5882.6	6133.0	6546.8	7225.1	6999.0	6320.7	6108.7	5917.0	5886.7	5672.7
60°	5450.6	5537.4	5900.8	6526.6	7388.6	7346.2	6764.8	6579.1	6423.7	6334.8	6171.3
62.5°	4913.6	4978.2	5493.0	6397.4	7251.3	7596.6	7215.0	7087.8	6970.7	6787.0	6708.3
65°	4281.8	4304.0	4847.0	5971.5	7079.8	7693.5	7663.2	7606.6	7493.6	7223.1	7239.2
67.5°	3597.4	3641.8	4118.2	5291.1	6704.3	7649.0	8010.4	8056.8	7923.6	7517.8	7578.4
70°	2868.6	2923.1	3284.5	4350.4	6066.3	7457.3	8331.4	8406.1	8149.7	7614.7	7641.0
72.5°	1774.5	1827.0	2069.2	3022.1	4808.7	6813.3	8430.3	8527.2	8155.7	7485.5	7233.2
75°	613.7	619.8	809.5	1449.5	2854.5	5143.8	8107.3	8335.4	7899.4	7015.2	6294.5
77.5°	280.6	290.7	359.3	597.5	1265.8	2775.8	6694.2	7265.5	7120.1	6280.3	4845.0
80°	193.8	197.8	248.3	357.3	730.8	977.1	4225.2	4970.2	5224.5	4863.2	3104.8
82.5°	145.3	149.4	191.8	242.2	526.9	474.4	1608.9	2309.4	2870.7	2818.2	1298.1
85°	139.3	137.3	149.4	161.5	351.3	282.6	520.8	714.6	1120.4	958.9	327.0
87.5°	60.6	66.6	153.4	90.8	183.7	131.2	226.1	264.5	341.2	296.8	117.1
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°	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0
2.5°	1600.9	1604.9	1617.0	1635.2	1645.3	1665.5	1679.6	1687.7	1693.7	1695.7	1695.7
5°	1586.7	1594.8	1621.1	1651.3	1679.6	1722.0	1760.3	1782.6	1798.7	1804.8	1806.8
7.5°	1590.8	1611.0	1649.3	1693.7	1730.1	1784.6	1831.0	1875.4	1911.8	1925.9	1925.9
10°	1629.1	1657.4	1709.9	1768.4	1814.9	1871.4	1919.8	1958.2	2000.6	2024.8	2028.8
12.5°	1687.7	1722.0	1790.6	1855.2	1907.7	1952.1	1996.5	2024.8	2045.0	2063.2	2067.2
15°	1770.4	1812.8	1881.5	1948.1	1994.5	2022.8	2034.9	2034.9	2032.9	2034.9	2038.9
17.5°	1853.2	1893.6	1962.2	2028.8	2051.0	2034.9	2020.8	2016.7	2014.7	2010.7	2012.7
20°	1934.0	1972.3	2030.9	2081.3	2063.2	2006.6	1988.5	1986.4	1980.4	1976.4	1972.3
22.5°	2014.7	2043.0	2091.4	2109.6	2036.9	1956.2	1934.0	1921.8	1913.8	1903.7	1893.6
25°	2107.6	2115.6	2152.0	2123.7	1972.3	1863.3	1831.0	1812.8	1804.8	1794.7	1786.6
27.5°	2194.4	2194.4	2200.4	2101.5	1877.4	1740.2	1691.7	1659.4	1657.4	1655.4	1653.4
30°	2273.1	2263.0	2242.8	2034.9	1754.3	1588.8	1516.1	1483.8	1495.9	1506.0	1508.0
32.5°	2366.0	2345.8	2289.3	1944.1	1606.9	1419.2	1330.4	1316.2	1330.4	1342.5	1334.4
35°	2511.3	2475.0	2337.7	1839.1	1465.6	1263.7	1178.9	1158.8	1154.7	1152.7	1136.6
37.5°	2719.3	2656.7	2376.1	1726.0	1326.3	1126.5	1063.9	1021.5	983.1	942.8	936.7
40°	2973.6	2866.6	2402.3	1596.8	1178.9	1011.4	944.8	890.3	825.7	755.0	746.9
42.5°	3252.2	3092.7	2414.4	1453.5	1049.7	916.5	833.7	765.1	692.4	637.9	627.8
45°	3553.0	3337.0	2404.3	1316.2	944.8	835.8	742.9	668.2	609.7	571.3	563.2
47.5°	3845.7	3617.6	2376.1	1207.2	864.0	767.1	672.2	603.6	559.2	516.8	506.7
50°	4221.2	3886.1	2341.7	1122.4	775.2	698.5	627.8	555.2	504.7	484.5	480.5
52.5°	4637.1	4154.6	2301.4	1015.4	688.4	644.0	599.6	535.0	518.8	480.5	474.4
55°	5087.2	4473.5	2293.3	880.2	611.7	605.6	571.3	553.1	557.2	480.5	470.4
57.5°	5561.7	4814.7	2311.5	744.9	549.1	571.3	583.4	569.3	563.2	490.6	470.4
60°	6056.2	5143.8	2257.0	619.8	500.6	543.0	597.5	561.2	516.8	486.5	472.4
62.5°	6536.7	5420.3	2020.8	530.9	464.3	535.0	589.5	530.9	480.5	480.5	474.4
65°	6886.0	5543.5	1580.7	466.3	440.1	524.9	575.3	510.7	470.4	484.5	476.4
67.5°	6926.3	5416.3	1061.9	415.9	419.9	506.7	543.0	492.6	460.3	496.6	484.5
70°	6678.0	5085.2	650.0	377.5	393.7	474.4	514.8	474.4	446.1	486.5	468.3
72.5°	6034.0	4467.5	458.3	345.2	365.4	444.1	488.5	458.3	426.0	440.1	421.9
75°	4950.0	3462.2	363.4	314.9	337.1	415.9	466.3	434.0	401.7	395.7	383.6
77.5°	3506.6	2218.6	292.7	290.7	306.8	381.5	436.0	405.8	373.5	361.4	353.3
80°	2016.7	1088.1	252.3	262.4	278.6	347.2	399.7	373.5	343.2	325.0	312.9
82.5°	771.2	379.5	222.1	228.1	246.3	310.9	363.4	341.2	310.9	327.0	274.5
85°	250.3	207.9	181.7	187.7	205.9	258.4	321.0	302.8	268.5	238.2	220.0
87.5°	111.0	113.0	96.9	107.0	129.2	171.6	234.2	222.1	195.8	163.5	157.5
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)