

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: P800115

Luminaire Tested: **ARCH2-80-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9673 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

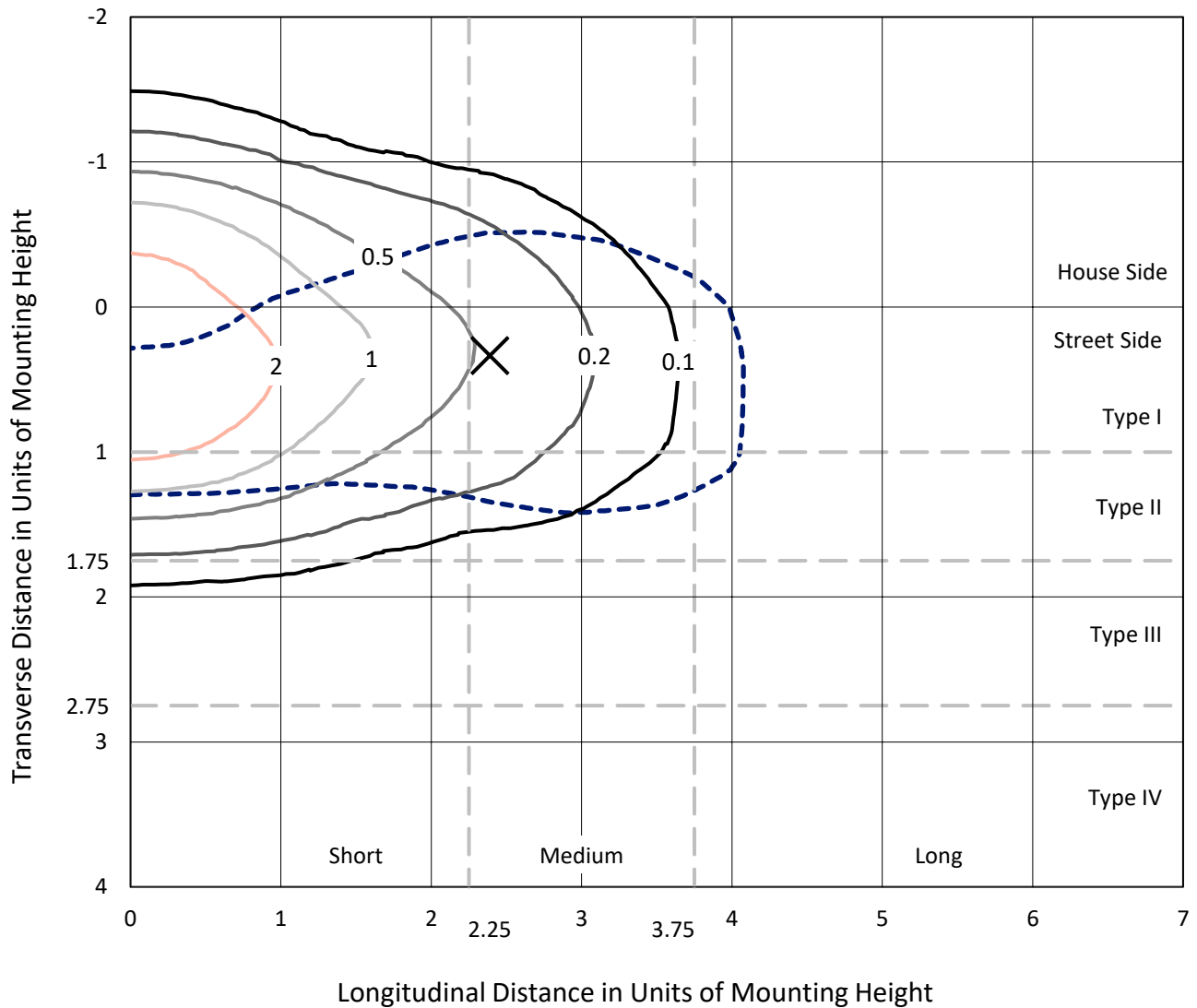
Input Watts (W): 84.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

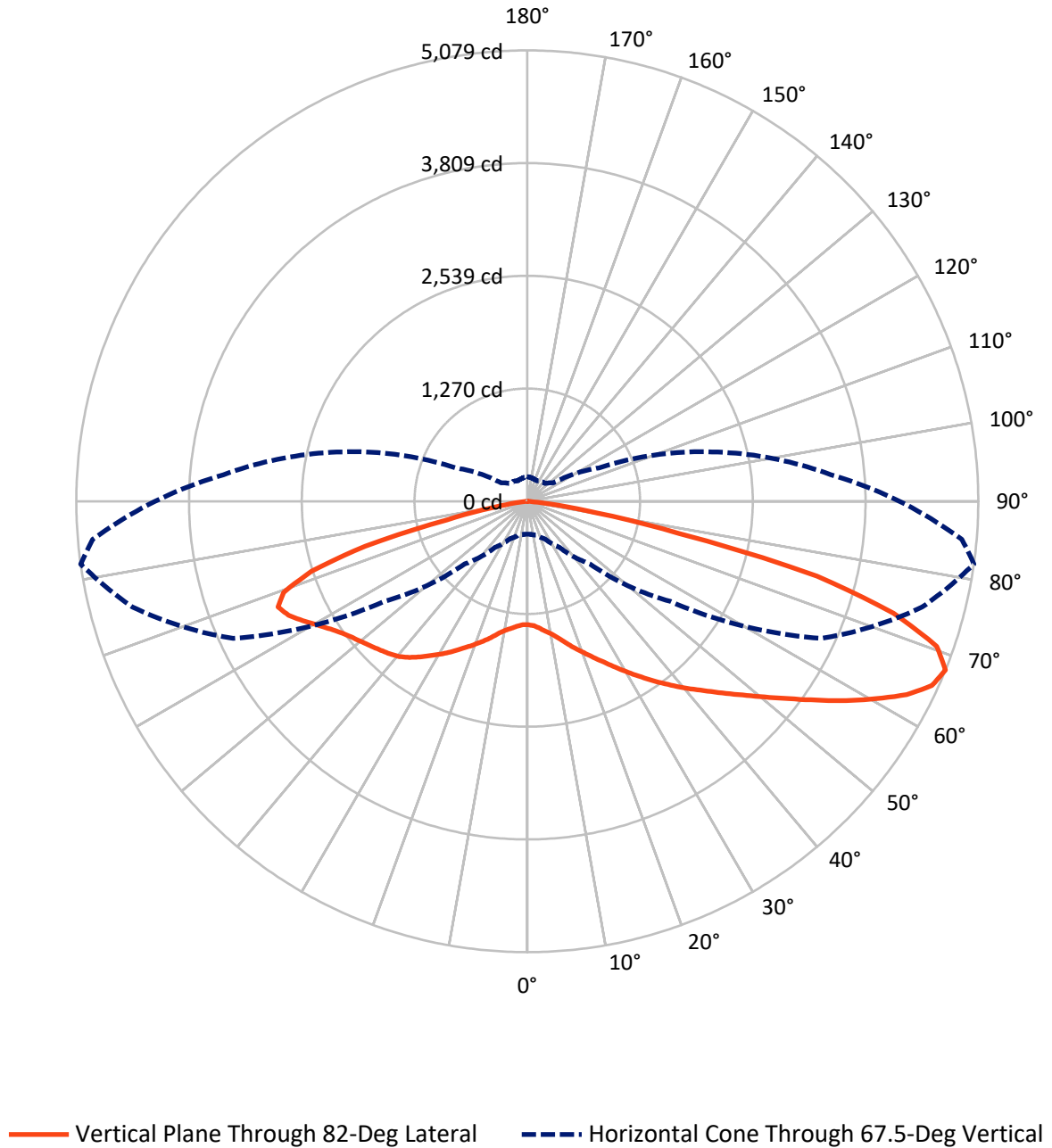
✕ Max cd
 - - - 1/2 Max cd



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



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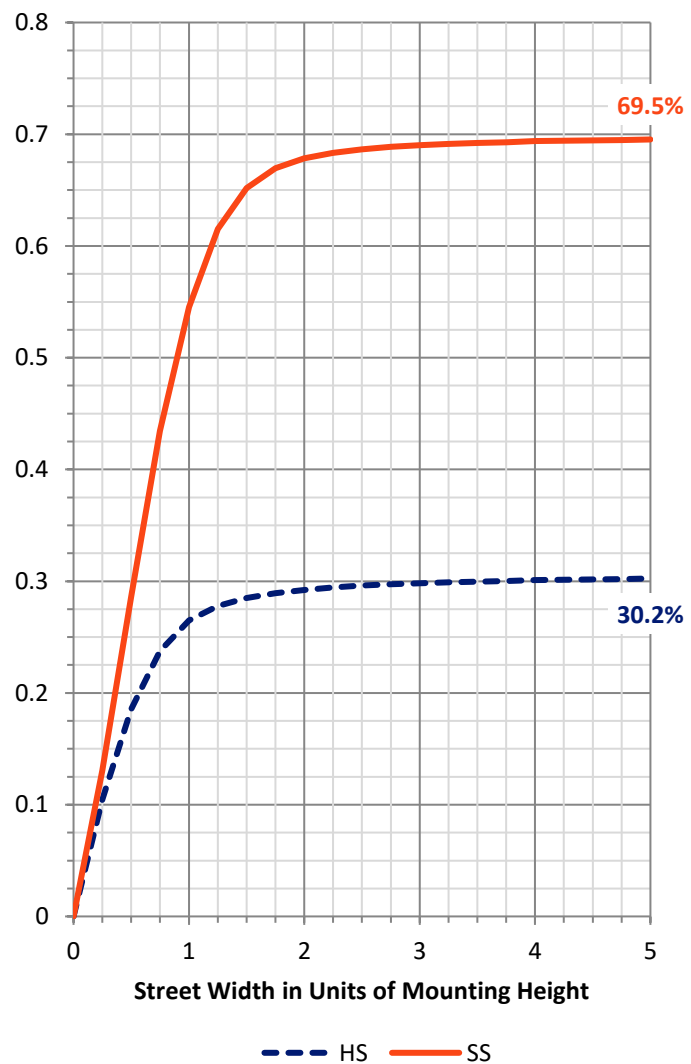
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2945.8	0.0	2945.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6727.2	0.0	6727.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	9673.0	0.0	9673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	1.5
10°-20°	517.6	5.4
20°-30°	1040.3	10.8
30°-40°	1634.1	16.9
40°-50°	1990.7	20.6
50°-60°	1881.0	19.4
60°-70°	1553.3	16.1
70°-80°	845.8	8.7
80°-90°	66.5	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°	9673.0	100.0
0°-180°	9673.0	100.0

Coefficient of Utilization



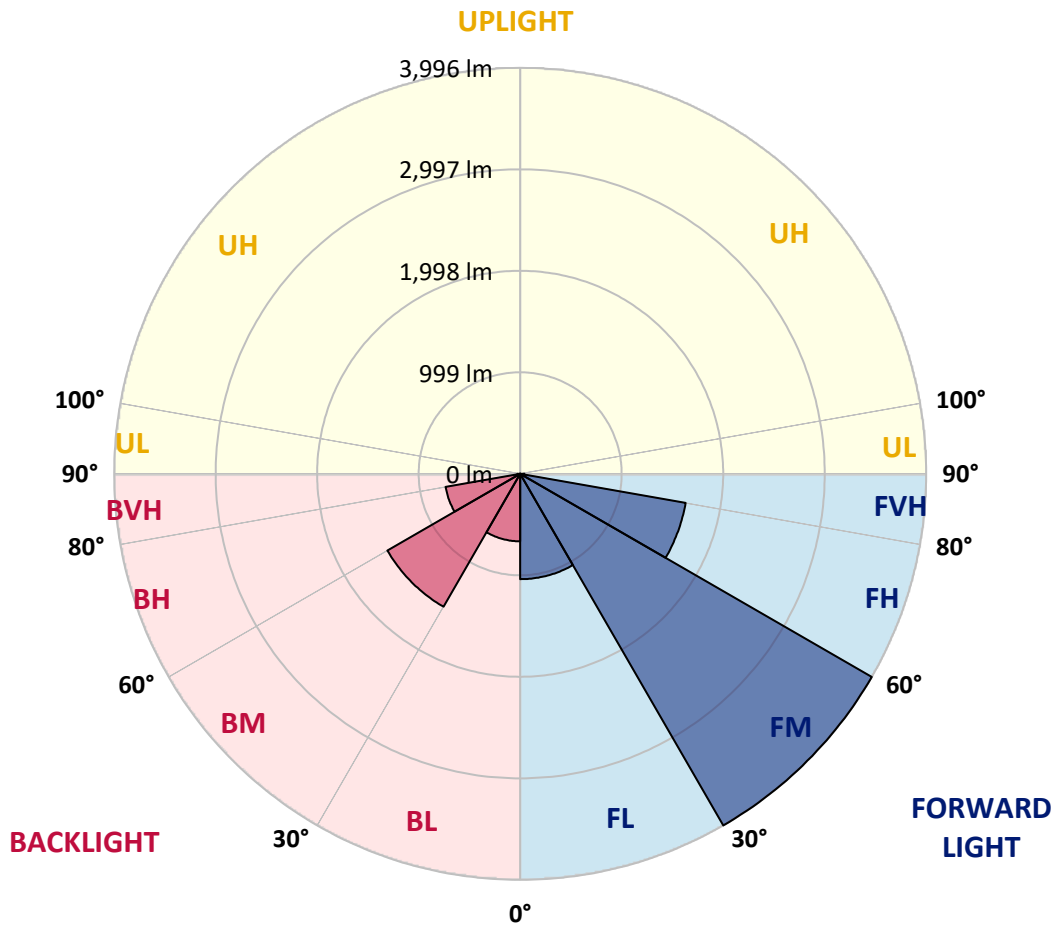
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.3	10.7			
FM (30°-60°)	3996.3	41.3			
FH (60°-80°)	1653.5	17.1			G1/1800
FVH (80°-90°)	40.1	0.4			G1/100
BL (0°-30°)	664.3	6.9	B2/1000		
BM (30°-60°)	1509.5	15.6	B2/2500		
BH (60°-80°)	745.6	7.7	B2/1000		G2/1000
BVH (80°-90°)	26.4	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°	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5
2.5°	1453.7	1453.7	1464.9	1464.9	1455.1	1439.6	1435.4	1418.6	1403.1	1403.1	1404.5
5°	1592.7	1591.3	1599.8	1588.5	1564.7	1533.8	1512.7	1476.2	1445.3	1435.4	1434.0
7.5°	1762.7	1761.3	1765.5	1747.2	1702.3	1651.7	1609.6	1550.6	1500.0	1479.0	1473.4
10°	1952.3	1950.9	1946.7	1915.8	1855.4	1776.7	1713.5	1632.1	1556.2	1522.5	1515.5
12.5°	2170.0	2167.2	2157.4	2112.4	2029.6	1928.4	1837.1	1731.8	1630.7	1584.3	1568.9
15°	2413.0	2408.8	2390.5	2335.7	2224.8	2097.0	1979.0	1844.2	1720.6	1660.2	1639.1
17.5°	2668.6	2668.6	2640.5	2559.1	2435.5	2276.7	2130.7	1959.3	1814.7	1740.2	1714.9
20°	2928.5	2927.0	2891.9	2793.6	2647.5	2465.0	2279.6	2091.4	1911.6	1821.7	1790.8
22.5°	3202.3	3199.5	3156.0	3043.6	2869.5	2663.0	2446.7	2222.0	2018.3	1910.2	1870.8
25°	3517.0	3512.7	3459.4	3321.7	3115.3	2882.1	2634.9	2375.1	2140.5	2008.5	1962.1
27.5°	3851.2	3845.6	3782.4	3622.3	3396.2	3115.3	2842.8	2552.0	2275.3	2118.0	2066.1
30°	4149.0	4144.8	4076.0	3911.6	3651.8	3347.0	3040.8	2729.0	2417.2	2234.6	2170.0
32.5°	4373.7	4373.7	4311.9	4150.4	3880.7	3568.9	3240.3	2896.1	2564.7	2359.6	2283.8
35°	4510.0	4514.2	4460.8	4331.6	4077.4	3778.2	3446.7	3092.8	2722.0	2493.0	2411.6
37.5°	4529.6	4543.7	4512.8	4425.7	4213.6	3952.4	3649.0	3282.4	2884.9	2627.9	2536.6
40°	4438.3	4448.2	4449.6	4415.9	4269.8	4077.4	3827.4	3483.2	3057.7	2769.7	2664.4
42.5°	4255.7	4262.8	4275.4	4285.2	4229.1	4132.1	3963.6	3670.0	3241.7	2914.4	2790.8
45°	4019.8	4018.4	4039.4	4081.6	4078.8	4101.2	4039.4	3840.0	3432.7	3078.7	2931.3
47.5°	3667.2	3660.2	3734.7	3830.2	3877.9	3983.3	4040.8	3973.4	3640.6	3259.9	3091.4
50°	3115.3	3108.2	3271.2	3495.9	3636.3	3796.5	3963.6	4053.5	3858.3	3463.6	3265.5
52.5°	2443.9	2436.9	2643.3	3036.6	3342.8	3575.9	3807.7	4071.7	4064.7	3691.1	3462.2
55°	1817.5	1811.8	2012.7	2438.3	2934.1	3320.3	3616.7	4024.0	4258.5	3952.4	3700.9
57.5°	1280.9	1278.1	1452.3	1804.8	2408.8	3008.5	3432.7	3931.3	4436.9	4236.1	3970.6
60°	898.9	894.7	1021.1	1293.6	1821.7	2538.0	3250.1	3807.7	4570.4	4515.6	4257.1
62.5°	605.4	602.5	692.4	920.0	1293.6	1953.7	2973.4	3724.8	4646.2	4796.5	4546.5
65°	459.3	457.9	498.6	623.6	915.8	1403.1	2533.8	3715.0	4656.0	5007.2	4792.3
67.5°	370.8	372.2	394.7	466.3	633.4	997.2	1964.9	3653.2	4604.1	5078.8	4911.7
70°	303.4	303.4	313.2	361.0	467.7	672.8	1372.2	3372.3	4459.4	4892.0	4769.8
72.5°	231.7	233.2	264.1	292.1	352.5	471.9	879.2	2790.8	4118.1	4313.3	4220.6
75°	184.0	182.6	200.8	240.2	273.9	337.1	539.3	2001.5	3504.3	3370.9	3311.9
77.5°	132.0	130.6	144.7	178.4	207.9	238.8	321.6	1009.9	1906.0	1751.5	1707.9
80°	89.9	87.1	99.7	123.6	137.6	140.5	157.3	387.7	831.5	783.7	773.9
82.5°	46.3	46.3	53.4	70.2	71.6	73.0	70.2	125.0	275.3	257.0	245.8
85°	18.3	18.3	19.7	23.9	23.9	25.3	25.3	32.3	29.5	28.1	26.7
87.5°	1.4	1.4	2.8	2.8	4.2	4.2	4.2	5.6	7.0	7.0	7.0
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°	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5
2.5°	1401.7	1396.1	1377.8	1373.6	1370.8	1366.6	1368.0	1358.2	1354.0	1355.4	1349.8
5°	1427.0	1417.2	1394.7	1384.9	1382.1	1377.8	1382.1	1375.0	1368.0	1370.8	1368.0
7.5°	1462.1	1448.1	1420.0	1410.2	1408.7	1404.5	1410.2	1404.5	1398.9	1401.7	1396.1
10°	1498.6	1480.4	1449.5	1439.6	1439.6	1438.2	1443.9	1435.4	1429.8	1431.2	1428.4
12.5°	1552.0	1528.1	1494.4	1486.0	1481.8	1486.0	1487.4	1476.2	1466.3	1467.7	1463.5
15°	1616.6	1589.9	1553.4	1540.8	1538.0	1536.6	1530.9	1516.9	1504.3	1502.9	1498.6
17.5°	1686.8	1653.1	1609.6	1597.0	1584.3	1580.1	1566.1	1547.8	1528.1	1528.1	1522.5
20°	1754.3	1716.3	1664.4	1646.1	1627.9	1611.0	1587.1	1557.6	1532.3	1528.1	1522.5
22.5°	1827.3	1782.4	1722.0	1695.3	1663.0	1629.3	1588.5	1549.2	1516.9	1509.9	1505.7
25°	1908.8	1852.6	1780.9	1741.6	1689.7	1637.7	1577.3	1526.7	1488.8	1477.6	1474.8
27.5°	1998.7	1931.2	1844.2	1786.6	1710.7	1629.3	1552.0	1491.6	1445.3	1431.2	1427.0
30°	2089.9	2009.9	1901.7	1817.5	1710.7	1602.6	1505.7	1435.4	1382.1	1362.4	1359.6
32.5°	2181.2	2091.4	1953.7	1834.3	1693.9	1557.6	1445.3	1362.4	1302.0	1278.1	1283.7
35°	2290.8	2181.2	2001.5	1841.3	1665.8	1502.9	1376.4	1279.5	1217.7	1196.7	1200.9
37.5°	2404.6	2271.1	2039.4	1835.7	1626.5	1441.1	1299.2	1205.1	1127.8	1091.3	1095.5
40°	2502.9	2352.6	2066.1	1816.1	1575.9	1370.8	1223.3	1099.8	993.0	957.9	953.7
42.5°	2595.6	2413.0	2080.1	1786.6	1518.3	1289.4	1115.2	956.5	849.7	806.2	807.6
45°	2692.5	2472.0	2074.5	1747.2	1446.7	1193.9	976.2	816.0	721.9	682.6	684.0
47.5°	2803.5	2535.2	2068.9	1705.1	1359.6	1070.3	842.7	692.4	611.0	582.9	580.1
50°	2921.4	2605.4	2061.9	1653.1	1262.7	932.6	710.7	577.3	508.4	490.2	486.0
52.5°	3054.9	2681.3	2057.6	1591.3	1146.1	786.5	592.7	476.1	429.8	417.1	415.7
55°	3215.0	2769.7	2063.3	1516.9	1005.6	648.9	493.0	410.1	379.2	372.2	370.8
57.5°	3410.2	2883.5	2080.1	1429.8	858.2	529.5	420.0	369.4	349.7	344.1	344.1
60°	3622.3	3012.7	2111.0	1331.5	710.7	436.8	372.2	337.1	328.7	335.7	335.7
62.5°	3851.2	3164.4	2165.8	1212.1	573.0	369.4	334.3	310.4	304.8	318.8	320.2
65°	4063.3	3311.9	2200.9	1068.9	455.1	320.2	304.8	283.7	286.5	300.6	299.2
67.5°	4193.9	3434.1	2151.7	889.1	361.0	283.7	273.9	255.6	262.6	273.9	275.3
70°	4113.9	3365.3	1908.8	671.4	282.3	247.2	240.2	228.9	234.6	248.6	254.2
72.5°	3722.0	3014.1	1484.6	453.7	227.5	207.9	210.7	205.1	212.1	224.7	237.4
75°	3021.2	2278.2	995.8	290.7	179.8	177.0	181.2	177.0	179.8	192.4	199.4
77.5°	1577.3	1111.0	495.8	181.2	133.4	137.6	144.7	146.1	154.5	157.3	160.1
80°	736.0	500.0	206.5	101.1	88.5	96.9	111.0	112.4	115.2	119.4	120.8
82.5°	240.2	150.3	95.5	54.8	50.6	54.8	71.6	85.7	87.1	95.5	95.5
85°	25.3	15.4	21.1	22.5	19.7	23.9	32.3	30.9	14.0	8.4	8.4
87.5°	7.0	5.6	7.0	7.0	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)