

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: P573486

Luminaire Tested: **ARCH-S-PA2-80-740-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-80-740-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11833 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

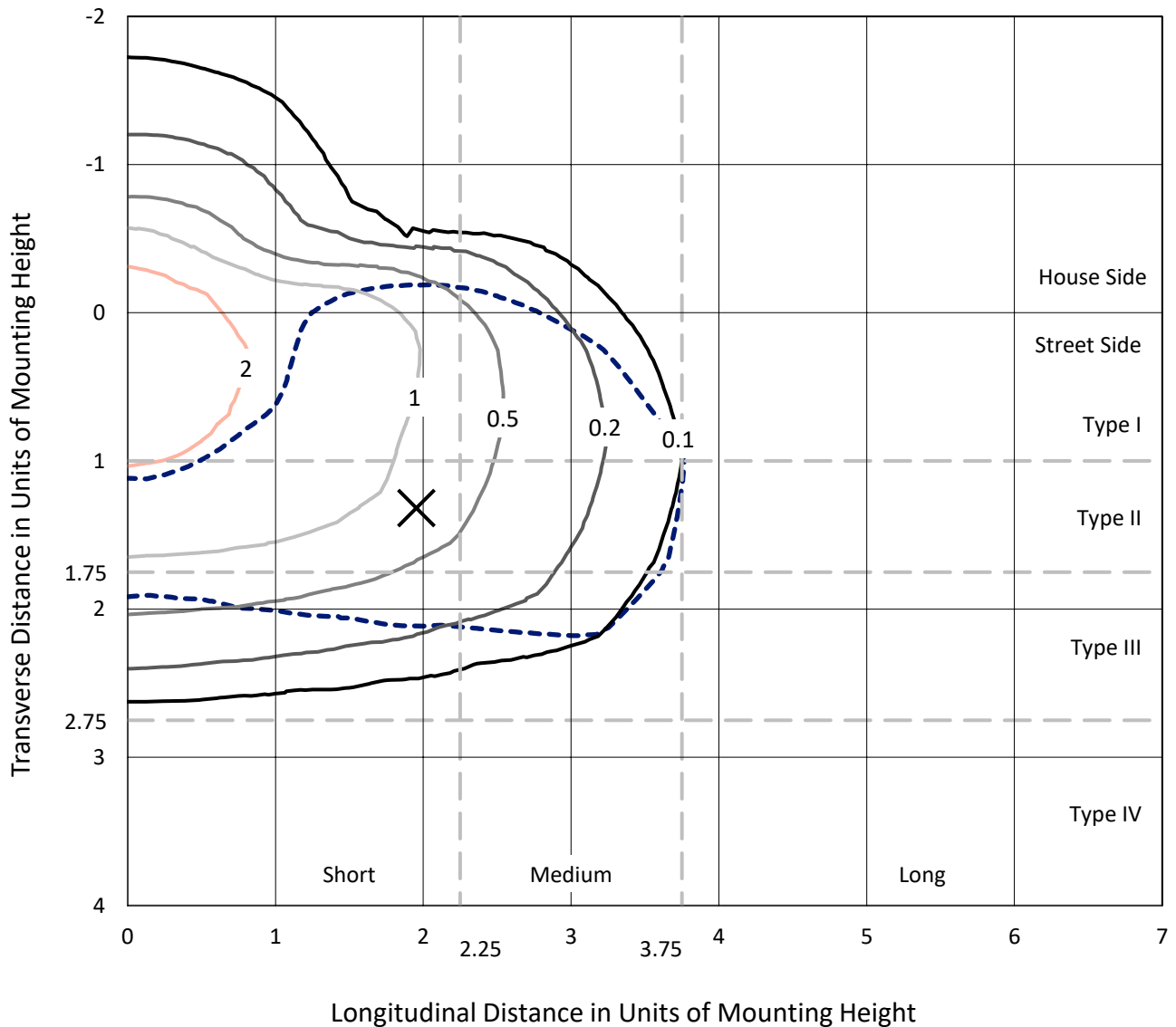
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

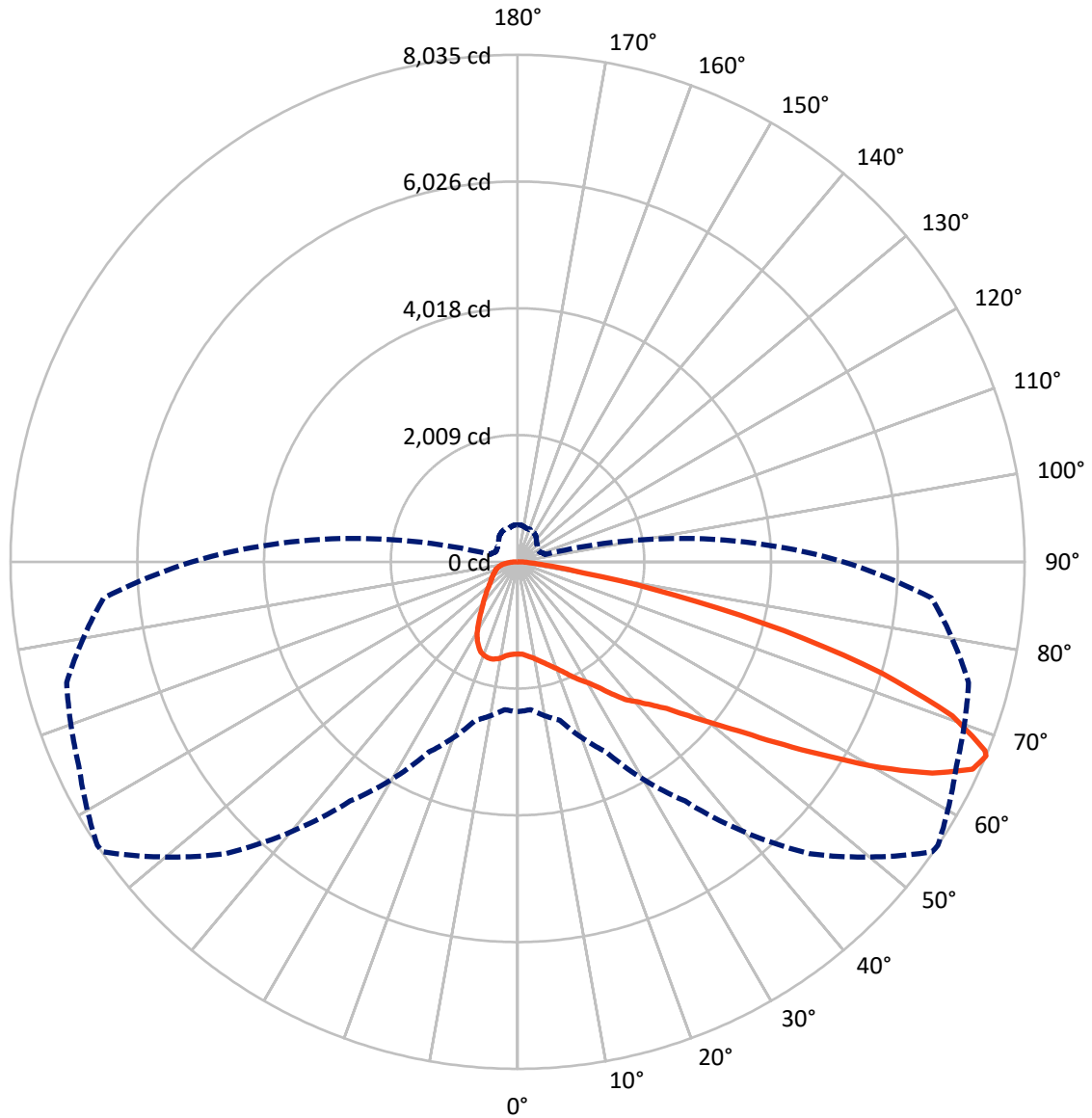
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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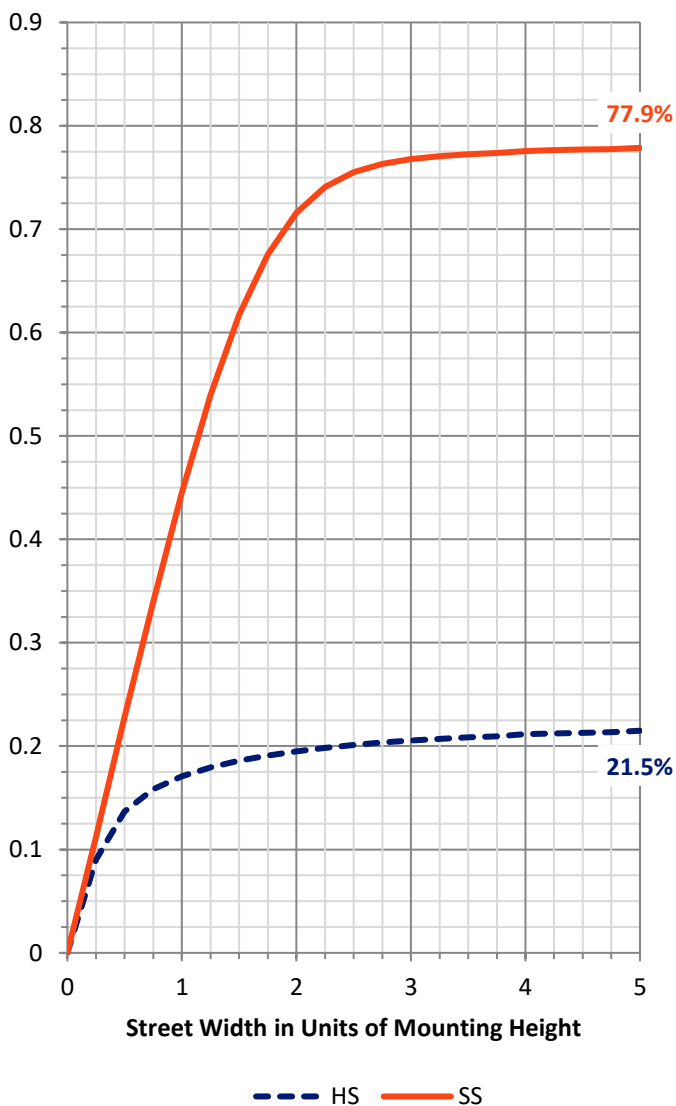
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2588.8	0.0	2588.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9244.2	0.0	9244.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	11833.0	0.0	11833.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	1.2
10°-20°	460.9	3.9
20°-30°	802.2	6.8
30°-40°	1176.2	9.9
40°-50°	1721.0	14.5
50°-60°	2689.6	22.7
60°-70°	3196.8	27.0
70°-80°	1455.9	12.3
80°-90°	186.7	1.6
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°	11833.0	100.0
0°-180°	11833.0	100.0



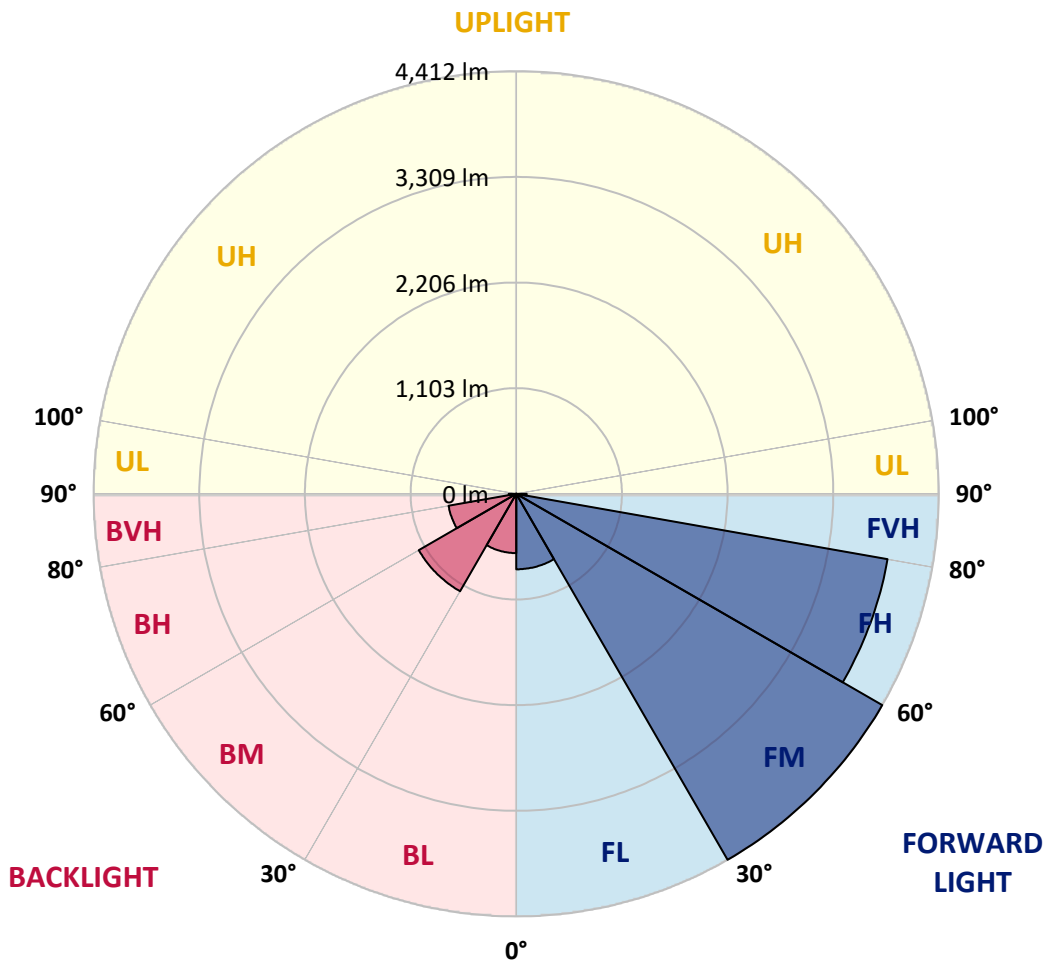
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.2	6.7			
FM (30°-60°)	4411.7	37.3			
FH (60°-80°)	3935.5	33.3			G2/5000
FVH (80°-90°)	108.9	0.9			G2/225
BL (0°-30°)	618.7	5.2	B2/1000		
BM (30°-60°)	1175.1	9.9	B2/2500		
BH (60°-80°)	717.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	77.8	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9
2.5°	1483.3	1476.9	1473.7	1476.9	1473.7	1467.3	1470.5	1467.3	1464.1	1460.9	1460.9
5°	1502.6	1496.2	1492.9	1496.2	1499.4	1492.9	1492.9	1492.9	1483.3	1480.1	1473.7
7.5°	1515.4	1505.8	1505.8	1512.2	1518.6	1521.8	1528.2	1525.0	1515.4	1509.0	1496.2
10°	1557.0	1544.2	1544.2	1544.2	1550.6	1557.0	1563.4	1566.6	1563.4	1560.2	1550.6
12.5°	1621.1	1608.3	1608.3	1608.3	1608.3	1605.1	1614.7	1617.9	1624.3	1624.3	1608.3
15°	1707.6	1691.6	1685.2	1672.4	1669.2	1662.7	1675.6	1675.6	1685.2	1688.4	1672.4
17.5°	1790.9	1771.7	1765.3	1752.5	1739.6	1723.6	1736.4	1739.6	1758.9	1762.1	1736.4
20°	1877.4	1871.0	1861.4	1842.2	1819.7	1803.7	1816.5	1813.3	1829.3	1835.8	1803.7
22.5°	1989.5	1973.5	1967.1	1941.5	1915.8	1899.8	1899.8	1906.2	1922.3	1922.3	1874.2
25°	2124.1	2101.7	2085.6	2056.8	2024.8	2005.6	2008.8	2015.2	2037.6	2021.6	1947.9
27.5°	2290.7	2268.3	2245.8	2188.2	2156.1	2117.7	2114.5	2120.9	2156.1	2114.5	2018.4
30°	2447.7	2438.1	2418.8	2374.0	2322.7	2258.6	2229.8	2233.0	2258.6	2201.0	2079.2
32.5°	2582.2	2569.4	2559.8	2527.8	2492.5	2415.6	2377.2	2380.4	2377.2	2306.7	2152.9
35°	2742.4	2723.2	2716.8	2687.9	2643.1	2591.8	2575.8	2569.4	2550.2	2454.1	2249.0
37.5°	2896.2	2877.0	2867.4	2851.3	2816.1	2771.2	2771.2	2768.0	2729.6	2595.0	2345.1
40°	3078.8	3056.4	3027.5	3017.9	2989.1	2957.1	2931.4	2915.4	2848.1	2726.4	2531.0
42.5°	3299.9	3287.1	3271.0	3229.4	3184.5	3178.1	3104.4	3098.0	3050.0	2979.5	2793.7
45°	3617.0	3591.4	3569.0	3556.2	3501.7	3444.0	3341.5	3315.9	3315.9	3299.9	3101.2
47.5°	3937.4	3892.6	3924.6	3915.0	3902.2	3838.1	3639.5	3642.7	3636.3	3677.9	3553.0
50°	4152.1	4126.4	4216.1	4257.8	4347.5	4347.5	4062.4	4027.1	4052.7	4174.5	4014.3
52.5°	4318.7	4302.6	4405.2	4568.6	4834.5	4860.1	4565.3	4491.7	4526.9	4699.9	4635.8
55°	4453.2	4437.2	4555.7	4840.9	5267.0	5424.0	5145.2	5113.2	5042.7	5228.5	5247.7
57.5°	4533.3	4498.1	4677.5	5058.7	5619.4	5981.4	5824.4	5814.8	5651.4	5824.4	5910.9
60°	4411.6	4389.1	4635.8	5148.4	5904.5	6506.8	6622.2	6622.2	6330.6	6423.5	6529.3
62.5°	4017.5	3988.7	4248.2	4940.2	5939.8	6936.1	7413.5	7375.0	6984.2	6981.0	6888.1
65°	3267.8	3232.6	3524.1	4254.6	5494.4	6987.4	7948.5	7926.1	7474.4	7346.2	6910.5
67°	2374.0	2351.6	2601.4	3325.5	4629.4	6542.1	8015.8	8035.0	7669.8	7397.5	6586.9
67.5°	2130.5	2127.3	2335.5	3053.2	4376.3	6378.7	7970.9	7990.2	7666.6	7355.8	6458.8
70°	993.2	1038.0	1233.4	1749.2	2950.7	5023.5	7234.1	7307.8	7256.5	6875.3	5440.0
72.5°	461.3	480.6	567.1	845.8	1585.9	3239.0	5862.9	6039.1	6263.3	5898.1	4309.0
75°	285.1	291.5	339.6	438.9	746.5	1557.0	4174.5	4366.7	4706.3	4437.2	2755.2
77.5°	224.3	227.5	259.5	314.0	435.7	669.6	2290.7	2531.0	2973.1	2623.9	1387.2
80°	166.6	173.0	198.6	243.5	307.6	342.8	973.9	1063.6	1435.3	1098.9	576.7
82.5°	121.7	128.2	153.8	176.2	214.7	217.9	397.3	419.7	615.1	445.3	249.9
85°	102.5	102.5	118.5	131.4	144.2	121.7	195.4	192.2	237.1	201.8	99.3
87.5°	48.1	51.3	112.1	83.3	70.5	51.3	57.7	60.9	73.7	80.1	38.4
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°	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9
2.5°	1457.7	1457.7	1457.7	1460.9	1464.1	1464.1	1467.3	1467.3	1470.5	1473.7	1480.1
5°	1470.5	1470.5	1467.3	1470.5	1476.9	1480.1	1486.5	1492.9	1499.4	1505.8	1509.0
7.5°	1496.2	1492.9	1492.9	1492.9	1499.4	1505.8	1515.4	1521.8	1531.4	1534.6	1541.0
10°	1544.2	1537.8	1537.8	1541.0	1544.2	1534.6	1531.4	1528.2	1537.8	1544.2	1550.6
12.5°	1601.9	1595.5	1592.3	1582.7	1569.8	1550.6	1534.6	1521.8	1525.0	1531.4	1541.0
15°	1662.7	1649.9	1643.5	1621.1	1589.1	1547.4	1521.8	1505.8	1505.8	1505.8	1515.4
17.5°	1726.8	1714.0	1688.4	1646.7	1585.9	1528.2	1496.2	1467.3	1454.5	1451.3	1457.7
20°	1787.7	1768.5	1726.8	1662.7	1566.6	1489.7	1448.1	1400.0	1380.8	1368.0	1374.4
22.5°	1845.4	1819.7	1762.1	1662.7	1534.6	1432.1	1358.4	1294.3	1262.3	1255.9	1259.1
25°	1906.2	1874.2	1797.3	1643.5	1464.1	1345.6	1243.1	1175.8	1134.1	1127.7	1137.3
27.5°	1967.1	1919.0	1826.1	1592.3	1384.0	1227.0	1118.1	1054.0	1031.6	1018.8	1022.0
30°	2018.4	1973.5	1855.0	1521.8	1275.1	1089.3	990.0	961.1	945.1	938.7	938.7
32.5°	2085.6	2044.0	1874.2	1438.5	1146.9	964.3	900.3	877.8	865.0	849.0	852.2
35°	2168.9	2130.5	1864.6	1332.8	1025.2	881.0	829.8	797.7	768.9	746.5	743.3
37.5°	2281.1	2252.2	1816.5	1204.6	913.1	820.2	768.9	727.3	685.6	650.4	644.0
40°	2466.9	2399.6	1746.0	1063.6	836.2	772.1	711.2	660.0	608.7	570.3	560.7
42.5°	2704.0	2563.0	1649.9	919.5	772.1	720.8	660.0	592.7	544.6	509.4	509.4
45°	2979.5	2739.2	1534.6	810.5	704.8	669.6	595.9	538.2	509.4	487.0	483.8
47.5°	3306.3	2915.4	1387.2	724.0	650.4	624.7	551.0	515.8	496.6	477.4	474.2
50°	3745.2	3152.5	1278.3	650.4	595.9	573.5	538.2	509.4	490.2	477.4	474.2
52.5°	4248.2	3456.9	1201.4	592.7	551.0	541.4	535.0	512.6	493.4	483.8	480.6
55°	4792.8	3831.7	1127.7	544.6	515.8	528.6	541.4	519.0	506.2	493.4	487.0
57.5°	5305.4	4148.9	1009.2	503.0	490.2	512.6	538.2	522.2	506.2	496.6	493.4
60°	5654.6	4309.0	845.8	464.5	464.5	490.2	528.6	506.2	490.2	493.4	493.4
62.5°	5766.8	4248.2	669.6	429.3	438.9	464.5	499.8	487.0	480.6	496.6	496.6
65°	5600.2	4001.5	535.0	400.5	413.3	432.5	483.8	496.6	515.8	551.0	554.2
67°	5164.5	3604.2	451.7	378.0	390.9	422.9	503.0	547.8	547.8	586.3	586.3
67.5°	5036.3	3469.7	438.9	371.6	387.7	422.9	512.6	560.7	547.8	592.7	592.7
70°	4094.4	2729.6	371.6	352.4	374.8	445.3	554.2	563.9	535.0	576.7	573.5
72.5°	3037.2	1973.5	339.6	333.2	349.2	419.7	551.0	541.4	499.8	512.6	503.0
75°	1877.4	1143.7	314.0	307.6	317.2	371.6	509.4	493.4	445.3	435.7	426.1
77.5°	906.7	579.9	269.1	278.7	288.3	323.6	448.5	432.5	390.9	368.4	365.2
80°	394.1	297.9	230.7	246.7	249.9	275.5	371.6	352.4	314.0	278.7	278.7
82.5°	195.4	166.6	182.6	205.0	198.6	221.1	291.5	259.5	230.7	192.2	185.8
85°	89.7	96.1	134.6	153.8	134.6	137.8	198.6	182.6	144.2	108.9	112.1
87.5°	32.0	44.9	76.9	92.9	67.3	64.1	105.7	76.9	44.9	12.8	16.0
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)