

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: P572730

Luminaire Tested: **ARCH-S-PA2-110-727-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572730
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-PA2-110-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12576 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

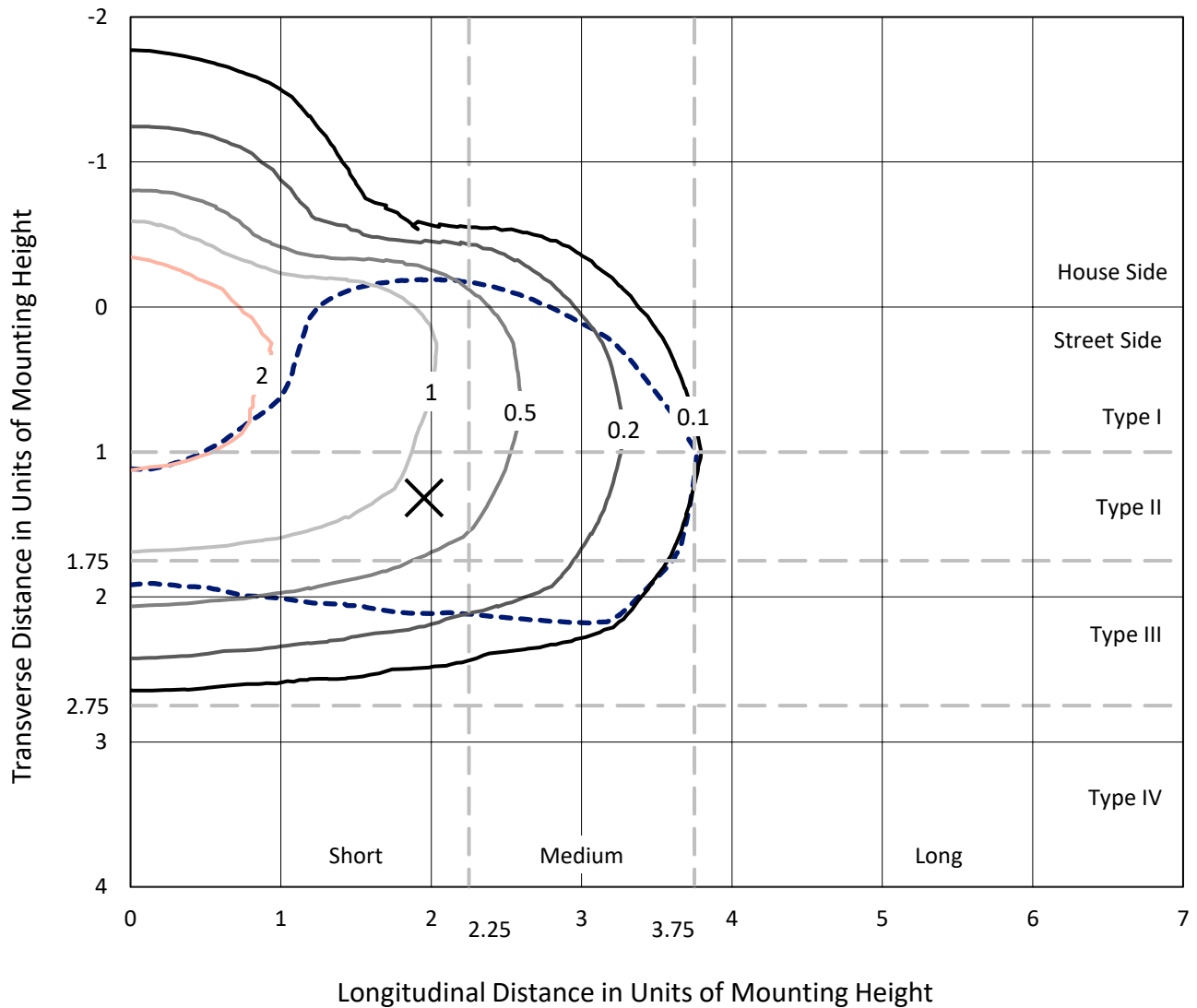
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

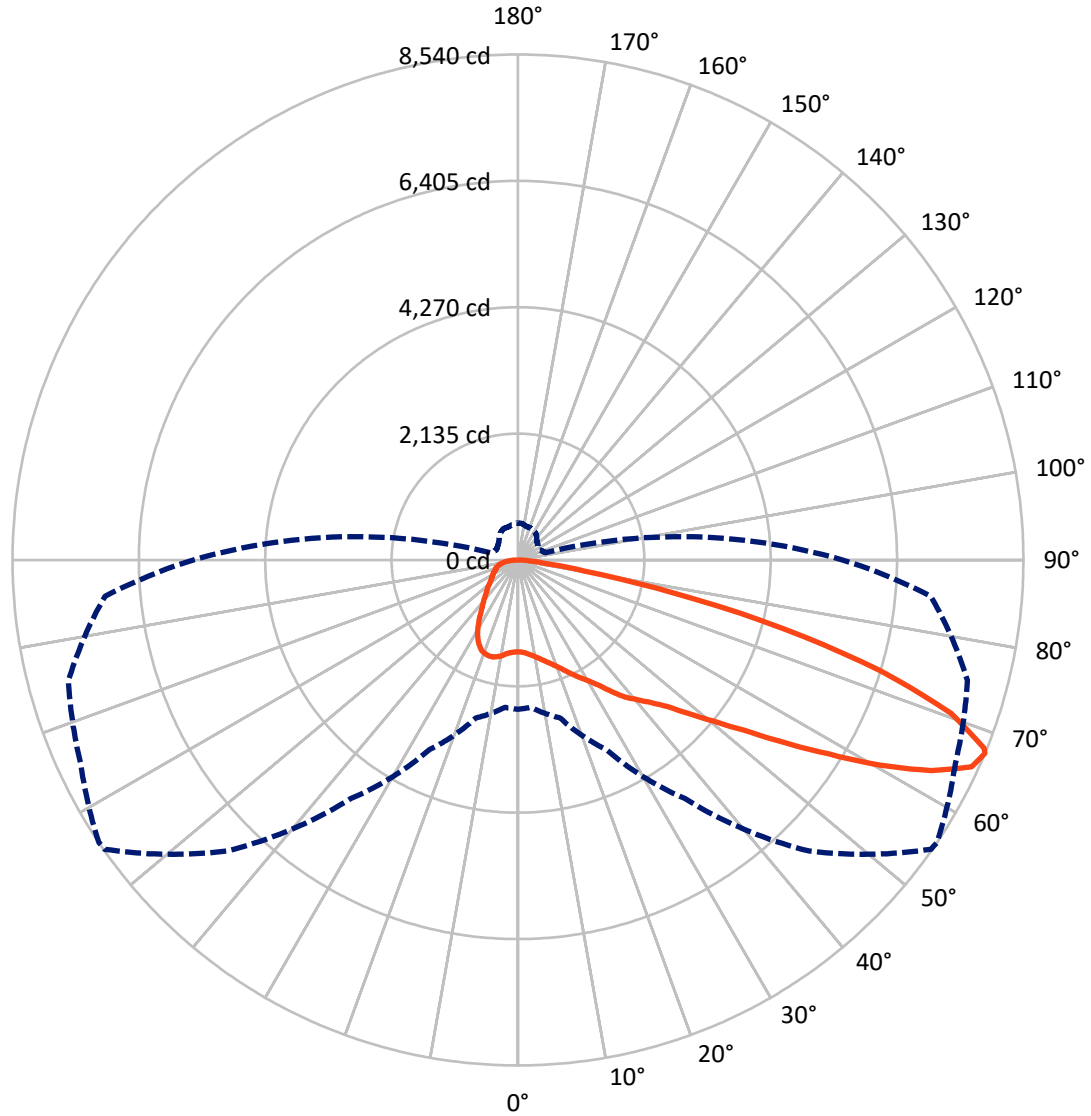
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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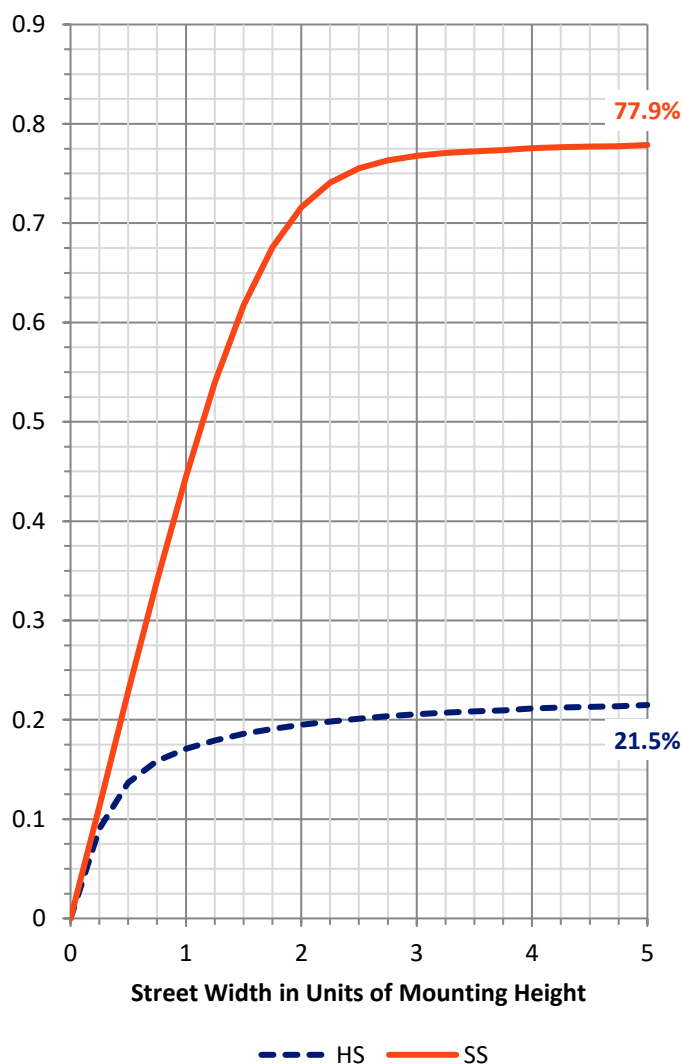
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2751.4	0.0	2751.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9824.6	0.0	9824.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	12576.0	0.0	12576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	1.2
10°-20°	489.9	3.9
20°-30°	852.6	6.8
30°-40°	1250.1	9.9
40°-50°	1829.0	14.5
50°-60°	2858.5	22.7
60°-70°	3397.5	27.0
70°-80°	1547.3	12.3
80°-90°	198.4	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°	12576.0	100.0
0°-180°	12576.0	100.0

Coefficient of Utilization



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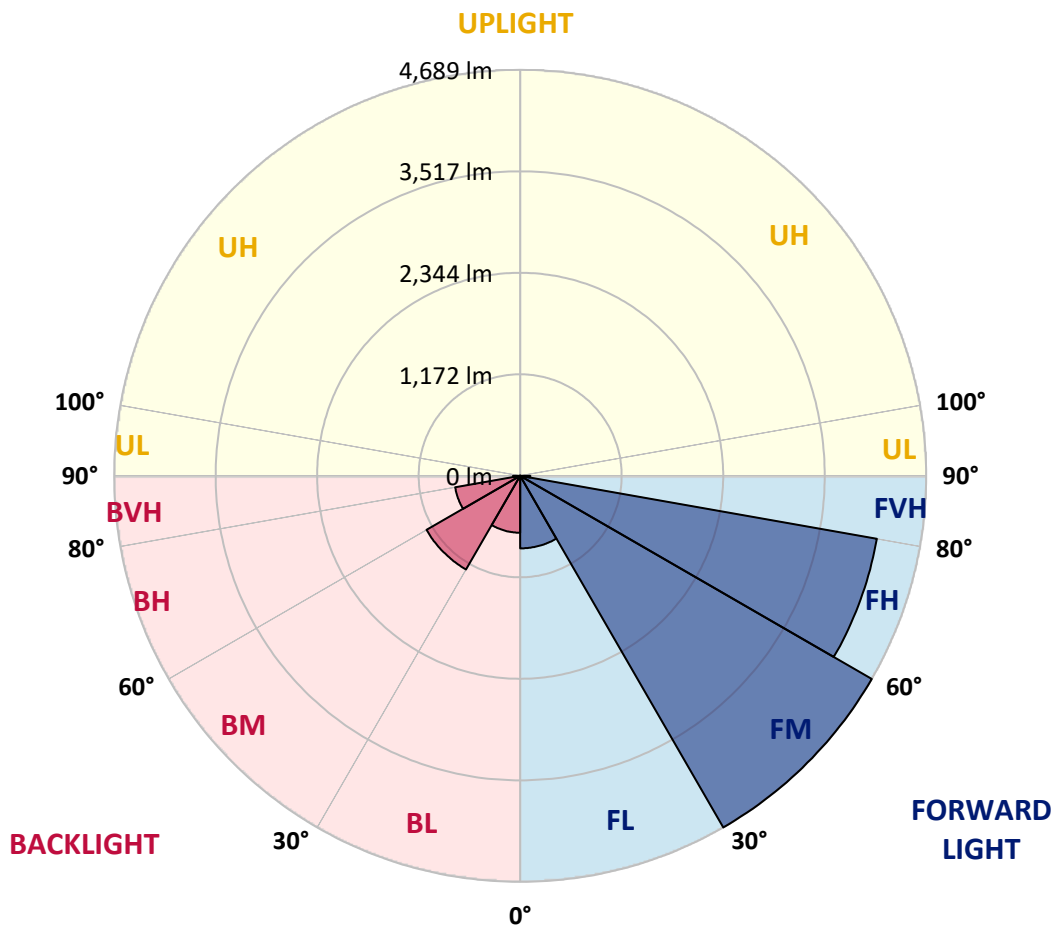
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.7	6.7			
FM (30°-60°)	4688.7	37.3			
FH (60°-80°)	4182.6	33.3			G2/5000
FVH (80°-90°)	115.7	0.9			G2/225
BL (0°-30°)	657.5	5.2	B2/1000		
BM (30°-60°)	1248.9	9.9	B2/2500		
BH (60°-80°)	762.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	82.7	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°	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6
2.5°	1576.5	1569.7	1566.3	1569.7	1566.3	1559.5	1562.9	1559.5	1556.0	1552.6	1552.6
5°	1596.9	1590.1	1586.7	1590.1	1593.5	1586.7	1586.7	1586.7	1576.5	1573.1	1566.3
7.5°	1610.5	1600.3	1600.3	1607.1	1613.9	1617.3	1624.1	1620.7	1610.5	1603.7	1590.1
10°	1654.8	1641.2	1641.2	1641.2	1648.0	1654.8	1661.6	1665.0	1661.6	1658.2	1648.0
12.5°	1722.9	1709.3	1709.3	1709.3	1709.3	1705.9	1716.1	1719.5	1726.3	1726.3	1709.3
15°	1814.8	1797.8	1791.0	1777.4	1774.0	1767.2	1780.8	1780.8	1791.0	1794.4	1777.4
17.5°	1903.3	1882.9	1876.1	1862.5	1848.9	1831.8	1845.5	1848.9	1869.3	1872.7	1845.5
20°	1995.3	1988.5	1978.3	1957.8	1934.0	1917.0	1930.6	1927.2	1944.2	1951.0	1917.0
22.5°	2114.5	2097.4	2090.6	2063.4	2036.1	2019.1	2019.1	2025.9	2043.0	2043.0	1991.9
25°	2257.5	2233.6	2216.6	2186.0	2151.9	2131.5	2134.9	2141.7	2165.5	2148.5	2070.2
27.5°	2434.5	2410.7	2386.8	2325.6	2291.5	2250.7	2247.2	2254.1	2291.5	2247.2	2145.1
30°	2601.4	2591.1	2570.7	2523.0	2468.6	2400.5	2369.8	2373.2	2400.5	2339.2	2209.8
32.5°	2744.4	2730.7	2720.5	2686.5	2649.0	2567.3	2526.5	2529.9	2526.5	2451.5	2288.1
35°	2914.6	2894.2	2887.4	2856.7	2809.1	2754.6	2737.6	2730.7	2710.3	2608.2	2390.3
37.5°	3078.0	3057.6	3047.4	3030.4	2992.9	2945.3	2945.3	2941.9	2901.0	2758.0	2492.4
40°	3272.1	3248.3	3217.6	3207.4	3176.8	3142.7	3115.5	3098.5	3027.0	2897.6	2689.9
42.5°	3507.1	3493.4	3476.4	3432.2	3384.5	3377.7	3299.4	3292.6	3241.5	3166.6	2969.1
45°	3844.2	3816.9	3793.1	3779.5	3721.6	3660.3	3551.3	3524.1	3524.1	3507.1	3296.0
47.5°	4184.6	4137.0	4171.0	4160.8	4147.2	4079.1	3868.0	3871.4	3864.6	3908.8	3776.1
50°	4412.8	4385.5	4480.9	4525.1	4620.5	4620.5	4317.4	4280.0	4307.2	4436.6	4266.4
52.5°	4589.8	4572.8	4681.8	4855.4	5138.0	5165.3	4852.0	4773.7	4811.2	4995.0	4926.9
55°	4732.8	4715.8	4841.8	5144.8	5597.7	5764.5	5468.3	5434.3	5359.3	5556.8	5577.3
57.5°	4818.0	4780.5	4971.2	5376.4	5972.2	6357.0	6190.1	6179.9	6006.3	6190.1	6282.1
60°	4688.6	4664.7	4926.9	5471.7	6275.3	6915.4	7038.0	7038.0	6728.1	6826.9	6939.2
62.5°	4269.8	4239.1	4514.9	5250.4	6312.7	7371.7	7879.0	7838.1	7422.7	7419.3	7320.6
65°	3473.0	3435.6	3745.4	4521.7	5839.4	7426.1	8447.6	8423.8	7943.7	7807.5	7344.4
67°	2523.0	2499.2	2764.8	3534.3	4920.1	6952.8	8519.1	8539.5	8151.4	7862.0	7000.5
67.5°	2264.3	2260.9	2482.2	3244.9	4651.1	6779.2	8471.4	8491.9	8148.0	7817.7	6864.3
70°	1055.5	1103.2	1310.9	1859.1	3135.9	5338.9	7688.3	7766.6	7712.1	7307.0	5781.6
72.5°	490.3	510.7	602.7	898.9	1685.4	3442.4	6231.0	6418.3	6656.6	6268.5	4579.6
75°	303.0	309.8	360.9	466.5	793.3	1654.8	4436.6	4640.9	5001.8	4715.8	2928.2
77.5°	238.3	241.7	275.8	333.7	463.1	711.6	2434.5	2689.9	3159.8	2788.6	1474.3
80°	177.1	183.9	211.1	258.8	326.9	364.3	1035.1	1130.4	1525.4	1167.9	612.9
82.5°	129.4	136.2	163.4	187.3	228.1	231.5	422.2	446.0	653.7	473.3	265.6
85°	109.0	109.0	126.0	139.6	153.2	129.4	207.7	204.3	252.0	214.5	105.6
87.5°	51.1	54.5	119.2	88.5	74.9	54.5	61.3	64.7	78.3	85.1	40.9
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°	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6	1552.6
2.5°	1549.2	1549.2	1549.2	1552.6	1556.0	1556.0	1559.5	1559.5	1562.9	1566.3	1573.1
5°	1562.9	1562.9	1559.5	1562.9	1569.7	1573.1	1579.9	1586.7	1593.5	1600.3	1603.7
7.5°	1590.1	1586.7	1586.7	1586.7	1593.5	1600.3	1610.5	1617.3	1627.6	1631.0	1637.8
10°	1641.2	1634.4	1634.4	1637.8	1641.2	1631.0	1627.6	1624.1	1634.4	1641.2	1648.0
12.5°	1702.5	1695.6	1692.2	1682.0	1668.4	1648.0	1631.0	1617.3	1620.7	1627.6	1637.8
15°	1767.2	1753.5	1746.7	1722.9	1688.8	1644.6	1617.3	1600.3	1600.3	1600.3	1610.5
17.5°	1835.3	1821.6	1794.4	1750.1	1685.4	1624.1	1590.1	1559.5	1545.8	1542.4	1549.2
20°	1899.9	1879.5	1835.3	1767.2	1665.0	1583.3	1539.0	1487.9	1467.5	1453.9	1460.7
22.5°	1961.2	1934.0	1872.7	1767.2	1631.0	1522.0	1443.7	1375.6	1341.5	1334.7	1338.1
25°	2025.9	1991.9	1910.2	1746.7	1556.0	1430.1	1321.1	1249.6	1205.3	1198.5	1208.7
27.5°	2090.6	2039.5	1940.8	1692.2	1470.9	1304.1	1188.3	1120.2	1096.4	1082.8	1086.2
30°	2145.1	2097.4	1971.4	1617.3	1355.2	1157.7	1052.1	1021.5	1004.5	997.6	997.6
32.5°	2216.6	2172.3	1991.9	1528.8	1219.0	1024.9	956.8	932.9	919.3	902.3	905.7
35°	2305.1	2264.3	1981.7	1416.4	1089.6	936.4	881.9	847.8	817.2	793.3	789.9
37.5°	2424.3	2393.7	1930.6	1280.2	970.4	871.7	817.2	772.9	728.7	691.2	684.4
40°	2621.8	2550.3	1855.7	1130.4	888.7	820.6	755.9	701.4	646.9	606.1	595.9
42.5°	2873.8	2723.9	1753.5	977.2	820.6	766.1	701.4	629.9	578.8	541.4	541.4
45°	3166.6	2911.2	1631.0	861.4	749.1	711.6	633.3	572.0	541.4	517.5	514.1
47.5°	3513.9	3098.5	1474.3	769.5	691.2	664.0	585.6	548.2	527.8	507.3	503.9
50°	3980.4	3350.4	1358.6	691.2	633.3	609.5	572.0	541.4	521.0	507.3	503.9
52.5°	4514.9	3673.9	1276.8	629.9	585.6	575.4	568.6	544.8	524.4	514.1	510.7
55°	5093.8	4072.3	1198.5	578.8	548.2	561.8	575.4	551.6	538.0	524.4	517.5
57.5°	5638.5	4409.4	1072.5	534.6	521.0	544.8	572.0	555.0	538.0	527.8	524.4
60°	6009.7	4579.6	898.9	493.7	493.7	521.0	561.8	538.0	521.0	524.4	524.4
62.5°	6128.9	4514.9	711.6	456.3	466.5	493.7	531.2	517.5	510.7	527.8	527.8
65°	5951.8	4252.7	568.6	425.6	439.2	459.7	514.1	527.8	548.2	585.6	589.1
67°	5488.7	3830.5	480.1	401.8	415.4	449.4	534.6	582.2	582.2	623.1	623.1
67.5°	5352.5	3687.5	466.5	395.0	412.0	449.4	544.8	595.9	582.2	629.9	629.9
70°	4351.5	2901.0	395.0	374.5	398.4	473.3	589.1	599.3	568.6	612.9	609.5
72.5°	3227.9	2097.4	360.9	354.1	371.1	446.0	585.6	575.4	531.2	544.8	534.6
75°	1995.3	1215.6	333.7	326.9	337.1	395.0	541.4	524.4	473.3	463.1	452.9
77.5°	963.6	616.3	286.0	296.2	306.4	343.9	476.7	459.7	415.4	391.6	388.2
80°	418.8	316.7	245.2	262.2	265.6	292.8	395.0	374.5	333.7	296.2	296.2
82.5°	207.7	177.1	194.1	217.9	211.1	234.9	309.8	275.8	245.2	204.3	197.5
85°	95.3	102.1	143.0	163.4	143.0	146.4	211.1	194.1	153.2	115.8	119.2
87.5°	34.0	47.7	81.7	98.7	71.5	68.1	112.4	81.7	47.7	13.6	17.0
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)