

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: P237063

Luminaire Tested: **ARCH-L-AF72-100-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-100-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13617 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

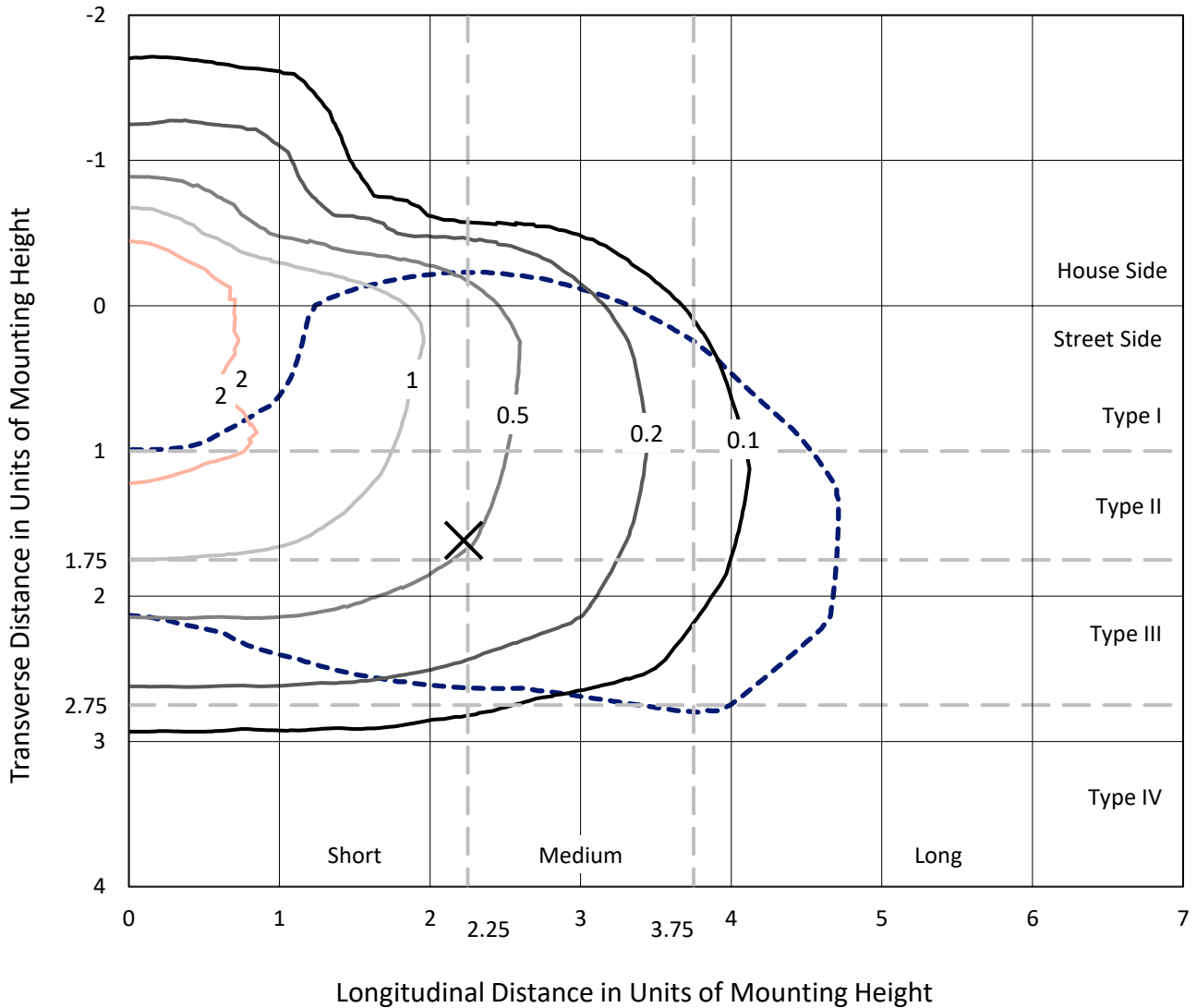
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

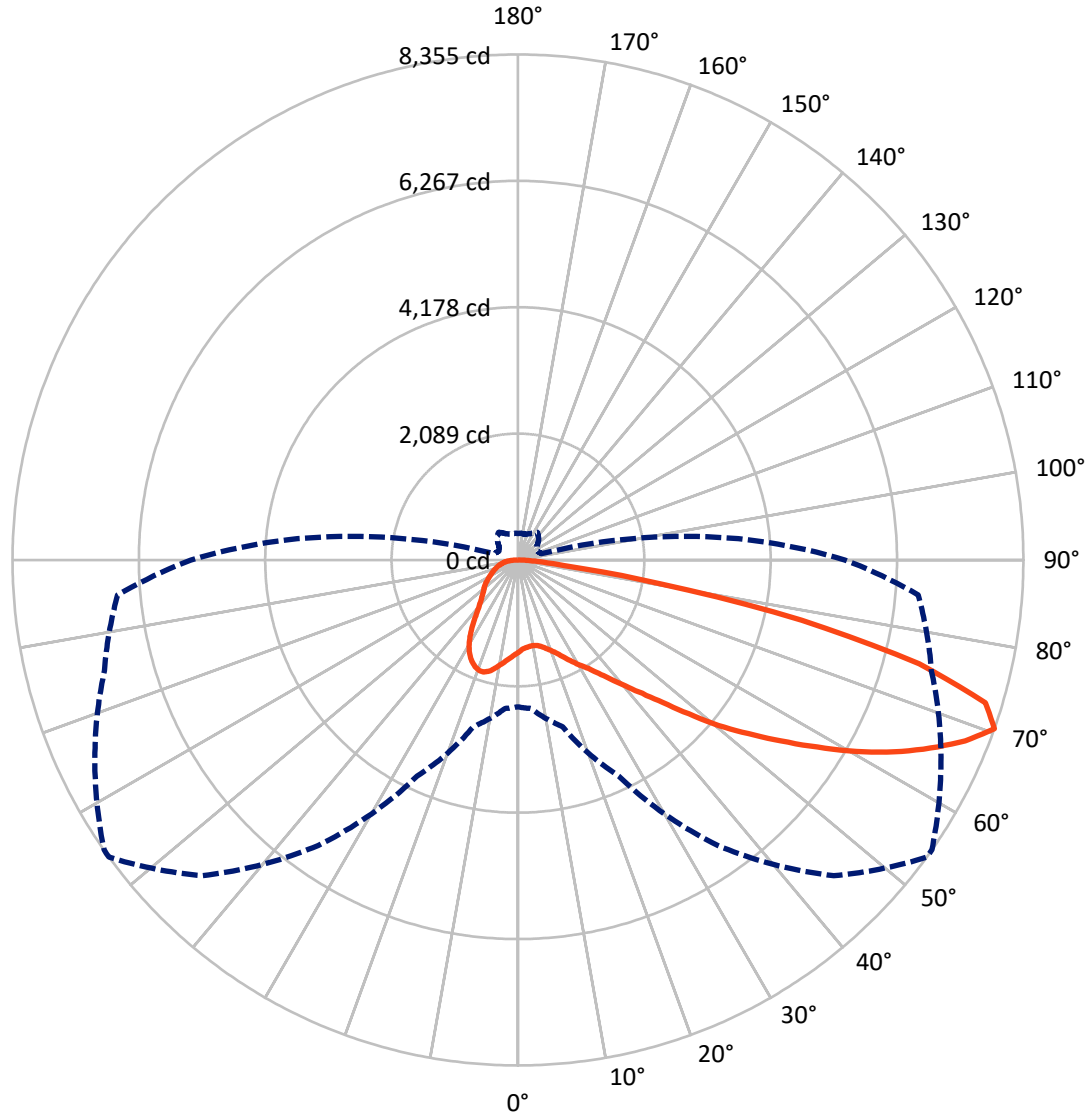
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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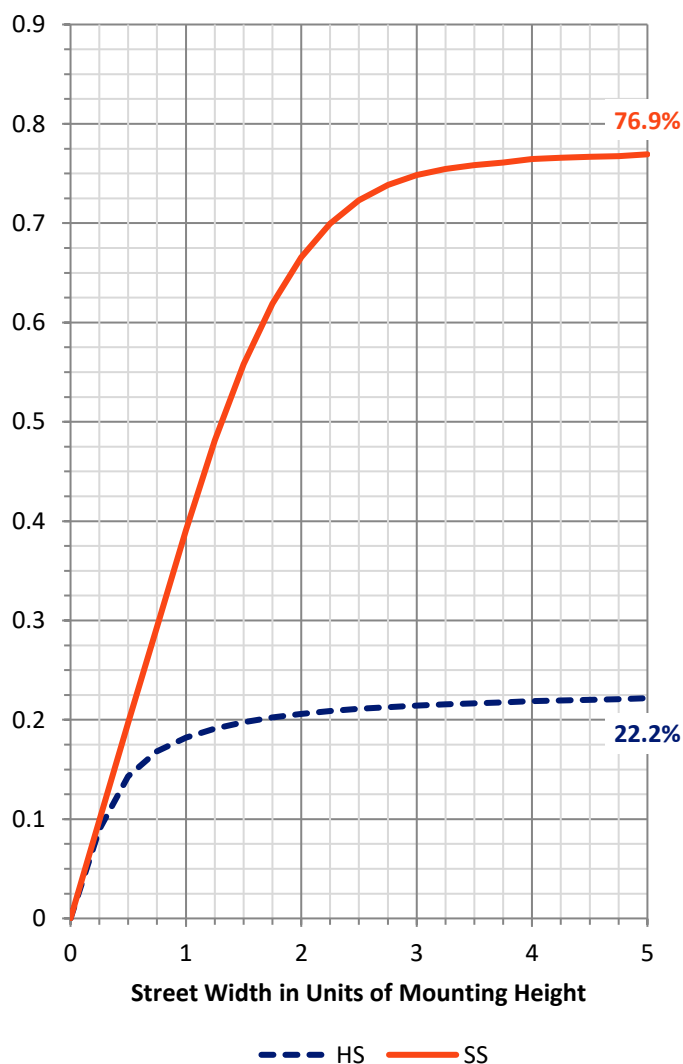
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.3	0.0	3088.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	10528.7	0.0	10528.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	13617.0	0.0	13617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.1
10°-20°	477.7	3.5
20°-30°	830.0	6.1
30°-40°	1212.9	8.9
40°-50°	1903.6	14.0
50°-60°	2927.3	21.5
60°-70°	3576.4	26.3
70°-80°	2217.4	16.3
80°-90°	322.1	2.4
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°	13617.0	100.0
0°-180°	13617.0	100.0

Coefficient of Utilization



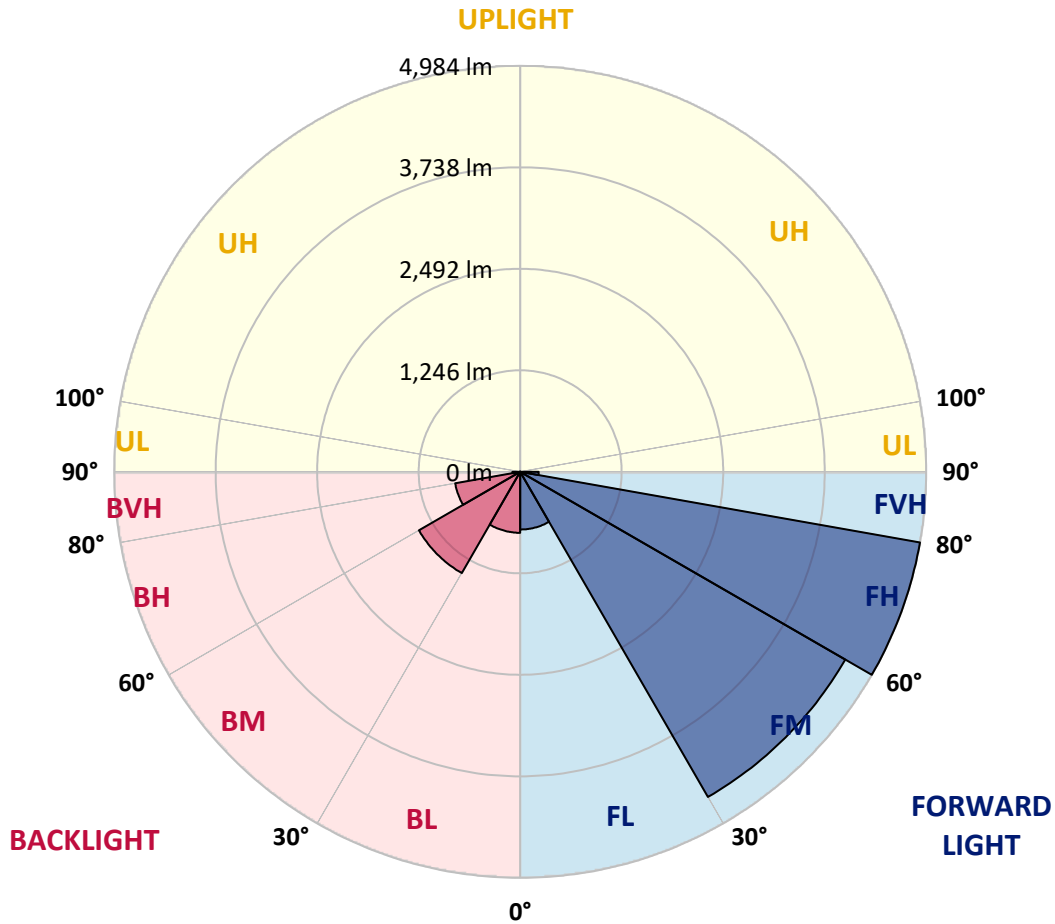
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.5	5.2			
FM (30°-60°)	4608.7	33.8			
FH (60°-80°)	4984.0	36.6			G2/5000
FVH (80°-90°)	227.5	1.7			G3/500
BL (0°-30°)	748.7	5.5	B2/1000		
BM (30°-60°)	1435.1	10.5	B2/2500		
BH (60°-80°)	809.8	5.9	B2/1000		G2/1000
BVH (80°-90°)	94.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5
2.5°	1463.6	1458.6	1458.6	1466.1	1468.7	1476.1	1476.1	1478.6	1486.0	1498.5	1513.5
5°	1418.7	1416.2	1418.7	1428.7	1433.7	1448.7	1453.7	1456.1	1471.0	1491.1	1513.5
7.5°	1373.8	1371.4	1376.3	1391.3	1406.2	1428.7	1441.1	1443.7	1466.1	1493.6	1523.5
10°	1358.8	1356.5	1363.9	1376.3	1391.3	1416.2	1436.2	1438.7	1471.0	1503.5	1545.9
12.5°	1378.9	1376.3	1383.9	1396.4	1411.3	1428.7	1451.2	1453.7	1496.1	1538.5	1583.2
15°	1428.7	1428.7	1431.2	1438.7	1453.7	1468.7	1488.5	1491.1	1535.9	1585.8	1630.7
17.5°	1506.0	1501.0	1501.0	1498.5	1508.6	1516.0	1540.9	1543.4	1590.9	1635.7	1680.5
20°	1600.7	1598.3	1588.3	1575.8	1573.4	1578.4	1603.3	1605.8	1653.1	1690.6	1733.0
22.5°	1715.5	1718.0	1695.4	1668.1	1655.6	1663.2	1685.6	1688.0	1722.9	1755.4	1792.7
25°	1867.6	1860.0	1827.7	1787.8	1762.8	1762.8	1785.3	1785.3	1817.6	1837.6	1862.6
27.5°	2012.1	1997.3	1967.3	1910.0	1870.1	1877.5	1900.0	1900.0	1929.8	1937.3	1949.8
30°	2169.3	2154.3	2116.9	2044.6	1992.3	1987.2	2014.6	2012.1	2052.1	2049.6	2039.7
32.5°	2361.2	2353.8	2291.3	2199.2	2129.4	2111.9	2136.9	2139.3	2164.3	2156.8	2124.3
35°	2630.5	2628.0	2570.7	2408.6	2316.4	2283.9	2299.0	2299.0	2316.4	2296.4	2241.6
37.5°	2969.6	2974.6	2924.8	2685.4	2555.7	2500.8	2503.3	2500.8	2505.9	2483.5	2426.1
40°	3308.7	3321.2	3318.7	3029.4	2864.9	2770.2	2735.3	2730.3	2742.7	2732.8	2678.0
42.5°	3755.0	3785.0	3715.2	3453.3	3268.8	3109.3	3014.5	3002.0	3029.4	3042.0	2989.6
45°	4218.8	4208.8	4099.2	3909.7	3742.5	3538.2	3358.6	3338.6	3358.6	3396.0	3341.1
47.5°	4460.7	4453.2	4425.8	4331.0	4306.1	4071.8	3799.9	3782.4	3745.1	3797.5	3732.7
50°	4859.7	4867.1	4754.9	4744.9	4849.7	4720.0	4298.6	4258.7	4191.4	4233.8	4178.9
52.5°	5148.9	5116.5	5046.6	5133.9	5460.6	5390.8	4767.4	4749.9	4687.6	4677.6	4652.7
55°	5266.1	5266.1	5278.6	5480.5	5946.8	5854.5	5276.0	5293.5	5208.7	5138.9	5171.3
57.5°	5300.9	5315.9	5423.1	5757.2	6517.8	6216.1	5837.0	5862.0	5739.8	5600.2	5702.3
60°	5128.9	5173.8	5430.6	5914.3	6839.4	6600.1	6427.9	6435.5	6258.4	6053.9	6233.5
62.5°	4687.6	4742.4	5201.2	5979.2	6787.0	6994.0	6986.5	7003.9	6762.0	6507.8	6732.1
65°	4146.5	4201.3	4690.1	5797.2	6747.1	7275.7	7497.6	7545.0	7233.3	6891.7	7043.8
67.5°	3351.1	3423.4	3887.2	5183.8	6552.6	7507.6	7976.4	8026.3	7597.4	7091.3	7016.4
70°	2428.7	2463.5	2852.4	3939.6	5759.7	7380.5	8355.4	8352.9	7717.1	7076.2	6642.4
72.5°	1169.4	1196.8	1533.5	2446.0	4119.1	6263.4	8081.2	8128.5	7552.5	6859.3	5787.1
75°	481.2	508.6	620.8	1032.3	2161.8	4139.1	6849.4	6961.6	6859.3	6156.2	4528.0
77.5°	299.3	309.2	364.1	533.6	987.3	1932.4	4794.9	4946.9	5435.6	4932.0	2989.6
80°	224.4	231.8	271.7	374.0	623.4	713.1	2381.2	2573.2	3293.7	2830.1	1353.9
82.5°	187.1	189.4	216.9	271.7	423.9	408.9	762.9	850.2	1535.9	1079.6	466.3
85°	174.5	179.5	194.5	194.5	269.4	256.9	316.7	331.6	446.4	369.0	162.0
87.5°	89.8	84.7	172.1	152.1	139.7	124.7	134.6	144.7	167.0	177.0	72.3
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°	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5
2.5°	1518.4	1526.0	1538.5	1550.9	1565.9	1583.2	1593.3	1605.8	1615.7	1610.7	1608.2
5°	1526.0	1538.5	1565.9	1590.9	1620.8	1655.6	1678.0	1703.1	1722.9	1727.9	1720.4
7.5°	1538.5	1560.9	1598.3	1643.2	1683.0	1727.9	1762.8	1797.8	1822.7	1827.7	1827.7
10°	1568.3	1593.3	1643.2	1703.1	1750.4	1797.8	1837.6	1865.0	1887.5	1897.5	1897.5
12.5°	1610.7	1640.6	1700.5	1772.8	1825.1	1870.1	1892.5	1904.9	1914.9	1924.9	1927.5
15°	1660.6	1693.0	1765.3	1842.6	1897.5	1919.9	1919.9	1917.4	1917.4	1922.4	1927.5
17.5°	1710.5	1745.4	1820.2	1902.4	1937.3	1924.9	1907.4	1900.0	1895.0	1892.5	1900.0
20°	1762.8	1797.8	1872.6	1949.8	1939.9	1887.5	1862.6	1845.1	1830.2	1822.7	1832.6
22.5°	1820.2	1852.6	1929.8	1982.3	1907.4	1827.7	1780.3	1752.8	1727.9	1712.9	1722.9
25°	1887.5	1919.9	1994.7	1992.3	1850.1	1737.9	1663.2	1618.2	1590.9	1575.8	1575.8
27.5°	1967.3	1994.7	2067.0	1967.3	1770.3	1618.2	1508.6	1466.1	1458.6	1446.1	1446.1
30°	2049.6	2072.0	2134.4	1910.0	1660.6	1461.2	1341.4	1321.5	1324.0	1311.5	1314.1
32.5°	2134.4	2156.8	2174.3	1825.1	1518.4	1284.2	1204.4	1189.4	1186.9	1176.8	1166.9
35°	2254.0	2286.5	2179.1	1710.5	1346.4	1137.0	1079.6	1064.7	1049.8	1014.8	1014.8
37.5°	2436.1	2471.0	2166.7	1568.3	1169.4	1022.3	969.9	950.0	925.1	890.1	877.7
40°	2685.4	2685.4	2139.3	1408.8	1027.2	930.1	880.2	855.3	827.8	792.9	785.5
42.5°	2979.6	2909.8	2096.9	1246.6	922.5	867.7	822.8	795.4	762.9	723.1	718.1
45°	3323.6	3134.2	2037.1	1102.1	845.2	830.3	802.8	755.5	700.7	658.3	650.7
47.5°	3657.8	3336.1	1979.8	999.8	780.4	815.3	792.9	713.1	638.3	578.4	571.0
50°	4024.3	3515.6	1912.5	915.0	730.6	805.4	780.4	650.7	568.4	526.1	521.1
52.5°	4390.9	3697.7	1840.2	825.4	688.3	785.5	750.5	605.9	566.0	508.6	501.2
55°	4777.4	3909.7	1755.4	725.6	638.3	745.4	710.6	603.4	583.5	508.6	491.2
57.5°	5153.9	4143.9	1618.2	628.4	583.5	685.7	695.7	588.5	546.1	503.6	483.7
60°	5570.2	4393.4	1391.3	546.1	536.0	635.8	675.7	556.0	503.6	488.7	478.8
62.5°	5904.4	4617.8	1087.1	488.7	496.1	595.9	650.7	536.0	486.2	473.7	471.2
65°	6049.0	4622.8	780.4	438.7	456.2	558.6	625.8	518.7	471.2	466.3	463.8
67.5°	5896.8	4368.4	548.6	391.4	413.9	523.6	593.4	501.2	456.2	458.8	453.8
70°	5405.7	3832.4	401.4	346.6	374.0	486.2	558.6	478.8	438.7	443.8	436.4
72.5°	4523.0	2987.0	321.7	309.2	341.6	446.4	523.6	453.8	411.4	413.9	398.9
75°	3341.1	1979.8	269.4	276.8	304.2	408.9	478.8	421.4	381.6	371.5	361.5
77.5°	1987.2	1017.3	221.9	241.9	271.7	364.1	428.9	381.6	349.1	331.6	324.2
80°	820.3	411.4	182.0	204.5	236.9	324.2	379.0	334.2	311.7	294.2	284.3
82.5°	326.6	201.9	144.7	167.0	199.5	281.8	331.6	294.2	271.7	259.3	231.8
85°	124.7	99.8	97.2	117.2	149.5	216.9	274.2	246.8	229.5	197.0	189.4
87.5°	49.8	44.9	44.9	57.4	84.7	137.1	197.0	172.1	179.5	142.1	144.7
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)