

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: P399125

Luminaire Tested: **ARCH-L-PA3-100-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399125
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-PA3-100-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13991 lumens
Efficiency: N/A
Efficacy: 137.2 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

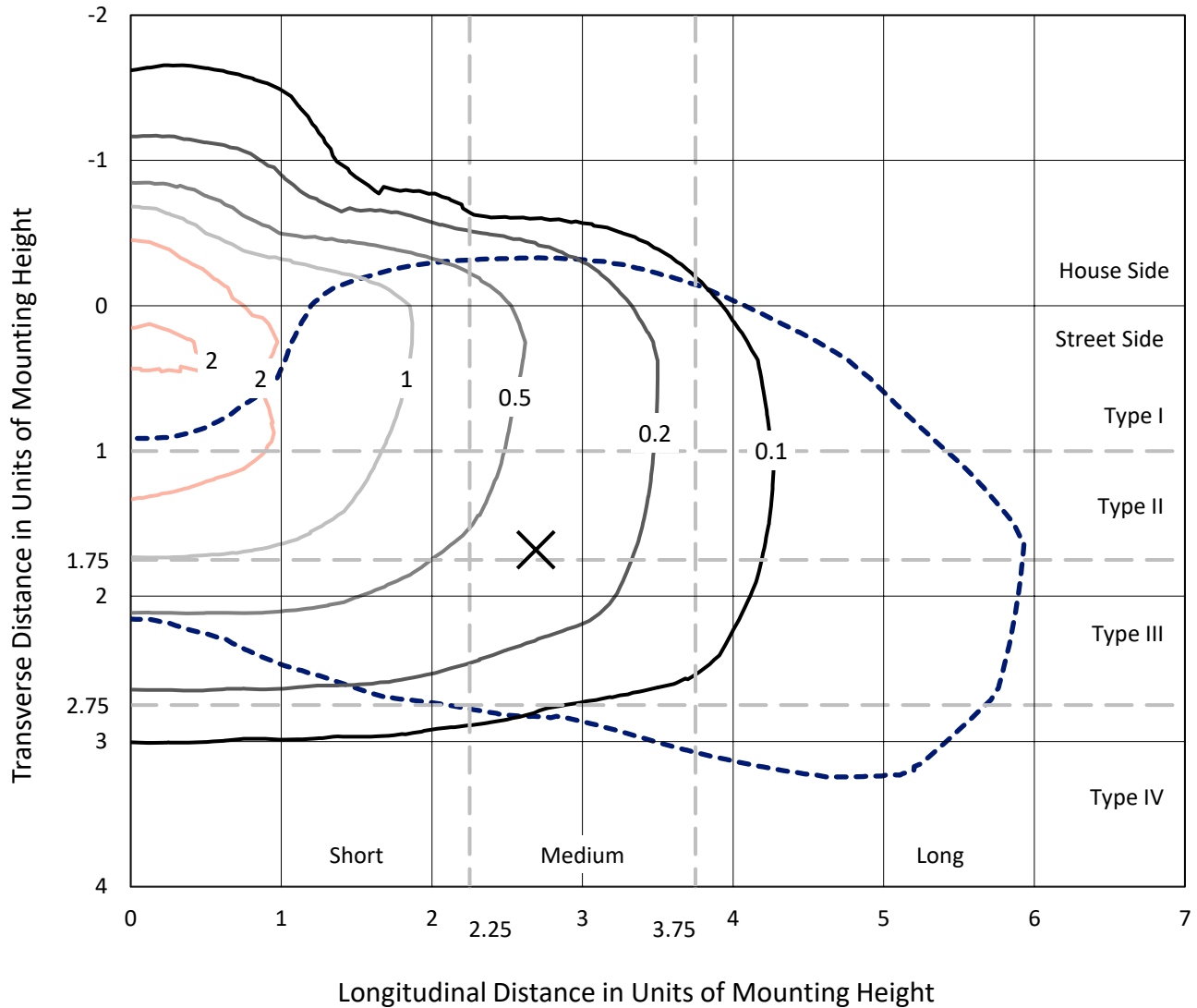
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

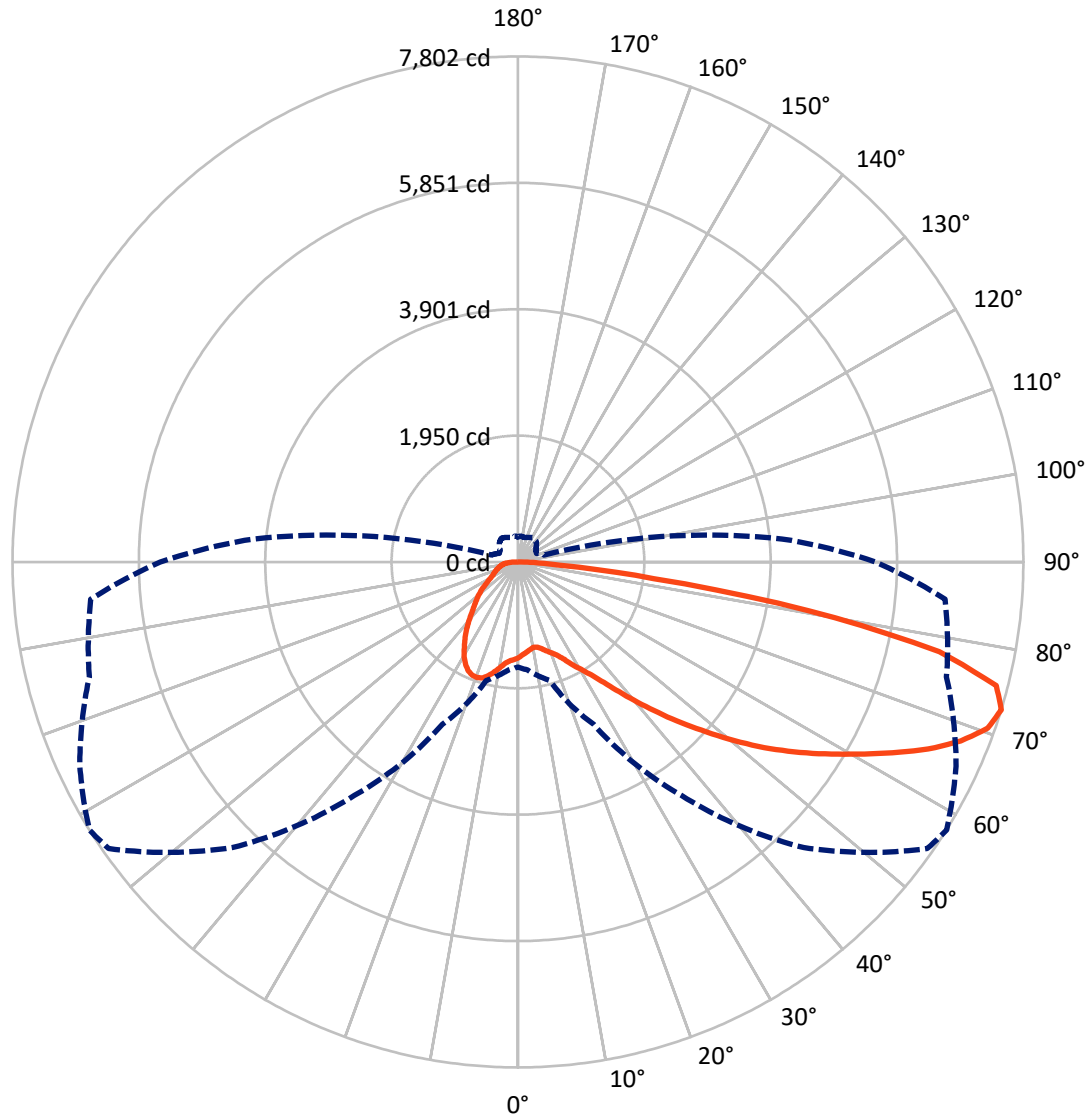
× Max cd
 - - - 1/2 Max cd



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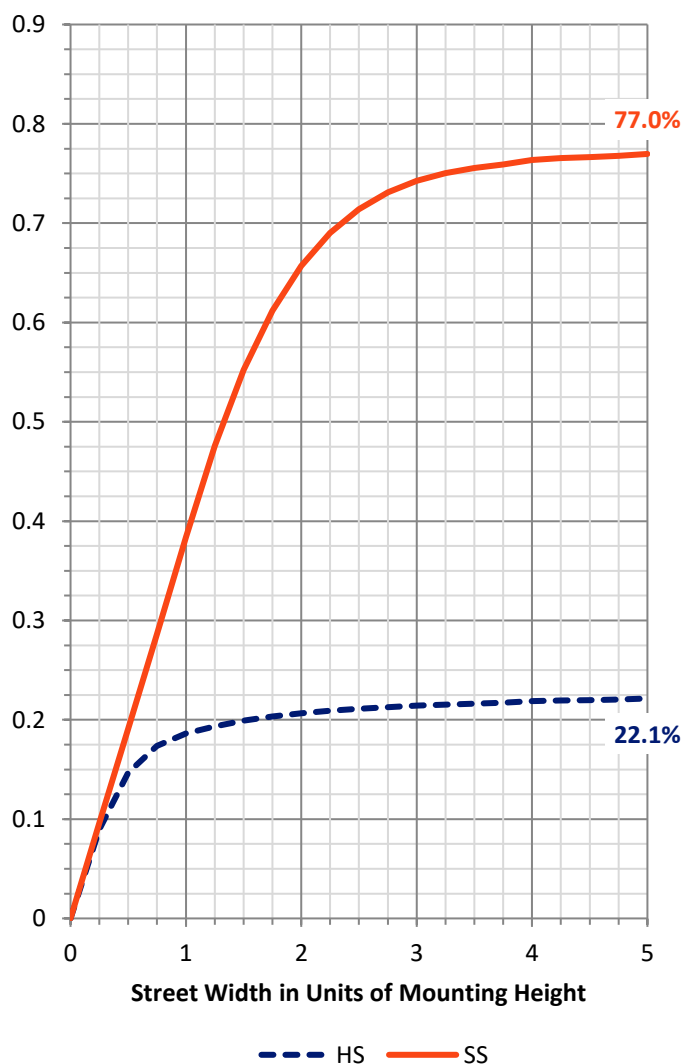
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3173.0	0.0	3173.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	10818.0	0.0	10818.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	13991.0	0.0	13991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	1.0
10°-20°	451.5	3.2
20°-30°	808.7	5.8
30°-40°	1216.5	8.7
40°-50°	1970.0	14.1
50°-60°	2965.5	21.2
60°-70°	3490.1	24.9
70°-80°	2474.8	17.7
80°-90°	471.6	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°	13991.0	100.0
0°-180°	13991.0	100.0

Coefficient of Utilization



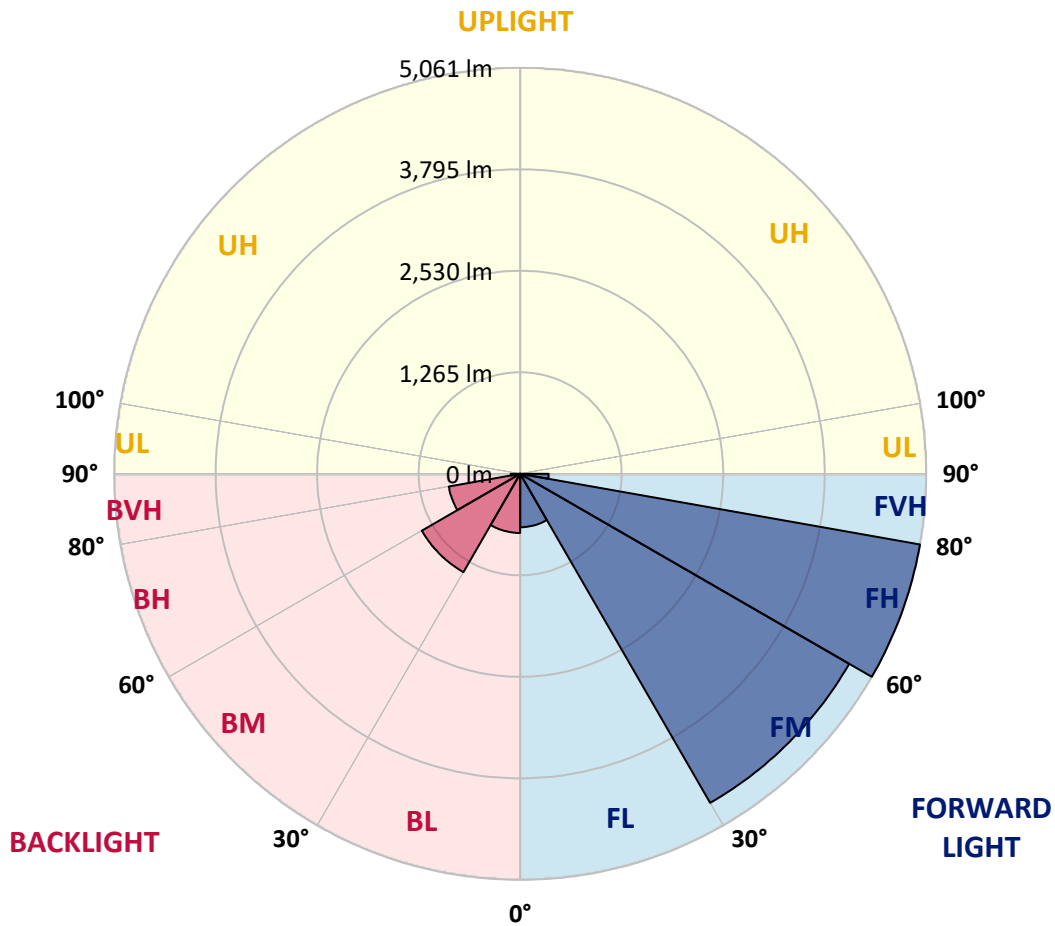
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.3	4.8			
FM (30°-60°)	4736.4	33.9			
FH (60°-80°)	5060.6	36.2			G3/7500
FVH (80°-90°)	355.7	2.5			G3/500
BL (0°-30°)	737.0	5.3	B2/1000		
BM (30°-60°)	1415.8	10.1	B2/2500		
BH (60°-80°)	904.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	115.9	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°	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8
2.5°	1420.3	1413.0	1414.8	1414.8	1422.2	1425.9	1427.7	1433.3	1437.0	1446.2	1459.1
5°	1353.9	1348.3	1350.2	1352.0	1364.9	1377.9	1388.9	1396.3	1407.4	1422.2	1440.7
7.5°	1305.8	1302.1	1304.0	1307.7	1318.8	1333.5	1352.0	1363.1	1379.7	1407.4	1438.8
10°	1270.7	1270.7	1272.6	1280.0	1291.1	1309.5	1324.3	1337.2	1370.5	1420.3	1468.4
12.5°	1243.0	1243.0	1248.6	1263.3	1281.8	1300.3	1335.4	1350.2	1394.5	1462.8	1520.1
15°	1241.2	1243.0	1244.9	1257.8	1278.1	1318.8	1370.5	1392.6	1446.2	1527.5	1594.0
17.5°	1270.7	1272.6	1265.2	1268.9	1292.9	1350.2	1418.5	1444.4	1512.7	1601.3	1669.7
20°	1361.2	1361.2	1339.1	1318.8	1335.4	1398.2	1475.8	1501.6	1577.3	1675.2	1743.6
22.5°	1545.9	1555.2	1503.5	1459.1	1433.3	1468.4	1538.6	1566.3	1651.2	1756.5	1824.8
25°	1769.4	1778.7	1708.5	1645.7	1597.7	1592.1	1638.3	1667.8	1738.0	1847.0	1904.3
27.5°	1985.5	1968.9	1904.3	1845.2	1784.2	1734.3	1769.4	1795.3	1876.6	1959.7	1994.8
30°	2155.4	2142.5	2079.7	2037.2	1980.0	1915.3	1895.0	1922.7	1989.2	2066.8	2085.3
32.5°	2343.8	2334.6	2271.8	2216.4	2168.4	2107.4	2063.1	2076.0	2113.0	2168.4	2179.5
35°	2584.0	2604.3	2537.8	2425.1	2371.5	2312.4	2281.0	2284.7	2312.4	2347.5	2329.1
37.5°	2837.0	2861.0	2864.7	2687.4	2615.4	2561.8	2528.5	2541.5	2574.7	2598.7	2541.5
40°	3306.1	3282.1	3186.1	3054.9	2944.1	2892.4	2846.2	2844.4	2868.4	2910.9	2807.4
42.5°	3928.6	3906.4	3712.5	3542.5	3367.1	3308.0	3217.5	3178.7	3189.8	3243.3	3099.3
45°	4525.2	4515.9	4360.8	4163.1	3952.6	3838.1	3631.2	3537.0	3527.8	3570.3	3398.5
47.5°	5055.2	5014.6	4901.9	4748.6	4726.5	4427.3	4046.8	3919.3	3875.0	3899.0	3706.9
50°	5622.3	5483.7	5328.6	5234.4	5395.1	5116.2	4466.0	4333.1	4224.1	4240.7	4041.2
52.5°	5923.3	5690.6	5589.0	5616.7	5832.8	5725.7	4922.3	4759.7	4584.3	4608.3	4373.7
55°	5664.7	5662.9	5707.2	5879.0	6180.1	6056.3	5356.3	5173.4	4981.4	4986.9	4756.0
57.5°	5310.1	5382.2	5611.2	5989.8	6610.4	6403.5	5783.0	5589.0	5413.6	5385.9	5190.1
60°	4986.9	5066.3	5398.8	5971.4	6760.0	6721.2	6189.3	6019.4	5877.2	5795.9	5646.3
62.5°	4495.6	4554.7	5025.7	5853.1	6634.4	6950.3	6601.2	6484.8	6377.7	6209.6	6137.6
65°	3917.5	3937.8	4434.6	5463.4	6477.4	7038.9	7011.2	6959.5	6856.1	6608.6	6623.3
67.5°	3291.4	3332.0	3767.9	4841.0	6133.9	6998.3	7328.9	7371.4	7249.5	6878.2	6933.6
70°	2624.6	2674.5	3005.1	3980.3	5550.2	6822.8	7622.6	7690.9	7456.3	6966.9	6990.9
72.5°	1623.5	1671.5	1893.2	2765.0	4399.6	6233.6	7713.1	7801.7	7461.9	6848.7	6617.8
75°	561.5	567.0	740.6	1326.1	2611.7	4706.2	7417.6	7626.3	7227.3	6418.3	5758.9
77.5°	256.7	266.0	328.8	546.7	1158.1	2539.6	6124.7	6647.4	6514.4	5746.0	4432.8
80°	177.3	181.0	227.2	326.9	668.6	893.9	3865.8	4547.3	4780.0	4449.4	2840.7
82.5°	133.0	136.7	175.5	221.6	482.1	434.0	1472.1	2113.0	2626.4	2578.4	1187.6
85°	127.4	125.6	136.7	147.8	321.4	258.6	476.5	653.8	1025.1	877.3	299.2
87.5°	55.4	61.0	140.4	83.1	168.1	120.1	206.9	242.0	312.1	271.5	107.1
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°	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8
2.5°	1464.7	1468.4	1479.4	1496.1	1505.3	1523.8	1536.7	1544.1	1549.6	1551.5	1551.5
5°	1451.7	1459.1	1483.1	1510.8	1536.7	1575.5	1610.6	1630.9	1645.7	1651.2	1653.1
7.5°	1455.4	1473.9	1509.0	1549.6	1582.9	1632.7	1675.2	1715.9	1749.1	1762.0	1762.0
10°	1490.5	1516.4	1564.4	1618.0	1660.5	1712.2	1756.5	1791.6	1830.4	1852.5	1856.2
12.5°	1544.1	1575.5	1638.3	1697.4	1745.4	1786.0	1826.7	1852.5	1871.0	1887.6	1891.3
15°	1619.8	1658.6	1721.4	1782.4	1824.8	1850.7	1861.8	1861.8	1859.9	1861.8	1865.5
17.5°	1695.5	1732.5	1795.3	1856.2	1876.6	1861.8	1848.8	1845.2	1843.3	1839.6	1841.5
20°	1769.4	1804.5	1858.1	1904.3	1887.6	1835.9	1819.3	1817.4	1811.9	1808.2	1804.5
22.5°	1843.3	1869.2	1913.5	1930.1	1863.6	1789.7	1769.4	1758.3	1751.0	1741.7	1732.5
25°	1928.3	1935.7	1968.9	1943.0	1804.5	1704.8	1675.2	1658.6	1651.2	1642.0	1634.6
27.5°	2007.7	2007.7	2013.2	1922.7	1717.7	1592.1	1547.8	1518.2	1516.4	1514.5	1512.7
30°	2079.7	2070.5	2052.0	1861.8	1605.0	1453.6	1387.1	1357.5	1368.6	1377.9	1379.7
32.5°	2164.7	2146.2	2094.5	1778.7	1470.2	1298.4	1217.2	1204.2	1217.2	1228.3	1220.9
35°	2297.7	2264.4	2138.8	1682.6	1340.9	1156.2	1078.6	1060.2	1056.5	1054.6	1039.9
37.5°	2487.9	2430.7	2173.9	1579.2	1213.5	1030.6	973.4	934.6	899.5	862.5	857.0
40°	2720.6	2622.7	2197.9	1461.0	1078.6	925.3	864.4	814.5	755.4	690.8	683.4
42.5°	2975.5	2829.6	2209.0	1329.8	960.4	838.5	762.8	700.0	633.5	583.7	574.4
45°	3250.7	3053.1	2199.8	1204.2	864.4	764.7	679.7	611.4	557.8	522.7	515.3
47.5°	3518.5	3309.8	2173.9	1104.5	790.5	701.9	615.1	552.3	511.6	472.8	463.6
50°	3862.1	3555.5	2142.5	1026.9	709.2	639.1	574.4	507.9	461.8	443.3	439.6
52.5°	4242.6	3801.1	2105.6	929.0	629.8	589.2	548.6	489.5	474.7	439.6	434.0
55°	4654.4	4093.0	2098.2	805.3	559.6	554.1	522.7	506.1	509.8	439.6	430.4
57.5°	5088.5	4405.1	2114.8	681.5	502.4	522.7	533.8	520.9	515.3	448.8	430.4
60°	5541.0	4706.2	2064.9	567.0	458.1	496.8	546.7	513.5	472.8	445.1	432.2
62.5°	5980.6	4959.2	1848.8	485.8	424.8	489.5	539.3	485.8	439.6	439.6	434.0
65°	6300.1	5071.9	1446.2	426.7	402.6	480.2	526.4	467.3	430.4	443.3	435.9
67.5°	6337.1	4955.5	971.5	380.5	384.2	463.6	496.8	450.7	421.1	454.4	443.3
70°	6109.9	4652.6	594.7	345.4	360.2	434.0	471.0	434.0	408.2	445.1	428.5
72.5°	5520.7	4087.4	419.3	315.8	334.3	406.3	447.0	419.3	389.7	402.6	386.0
75°	4528.8	3167.6	332.5	288.1	308.4	380.5	426.7	397.1	367.6	362.0	350.9
77.5°	3208.2	2029.9	267.8	266.0	280.7	349.1	399.0	371.2	341.7	330.6	323.2
80°	1845.2	995.5	230.9	240.1	254.9	317.7	365.7	341.7	314.0	297.4	286.3
82.5°	705.6	347.2	203.2	208.7	225.3	284.4	332.5	312.1	284.4	299.2	251.2
85°	229.0	190.2	166.2	171.8	188.4	236.4	293.7	277.1	245.7	217.9	201.3
87.5°	101.6	103.4	88.7	97.9	118.2	157.0	214.3	203.2	179.2	149.6	144.1
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)