

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: P399312

Luminaire Tested: **ARCH-L-PA3-120-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14446 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

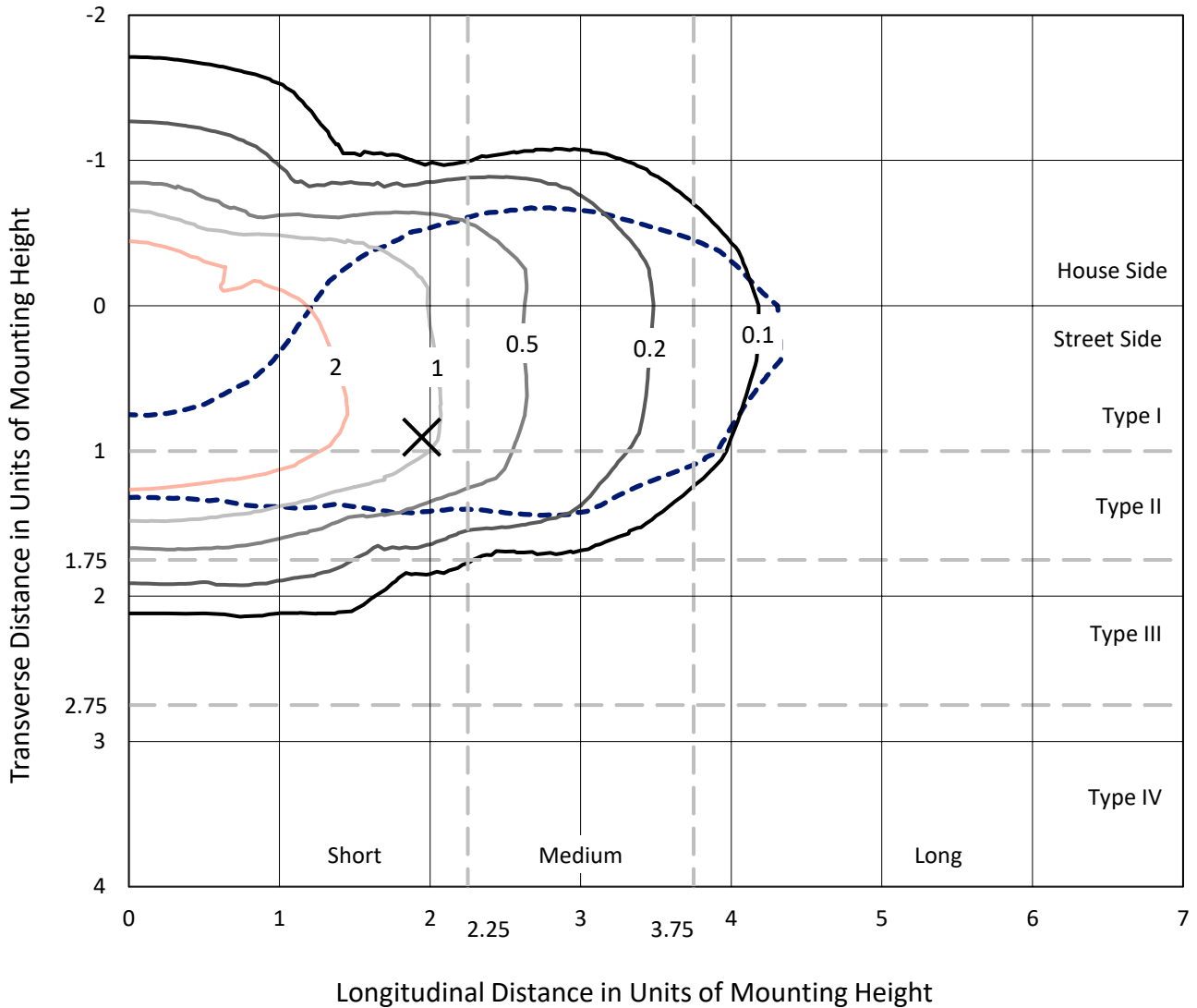
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

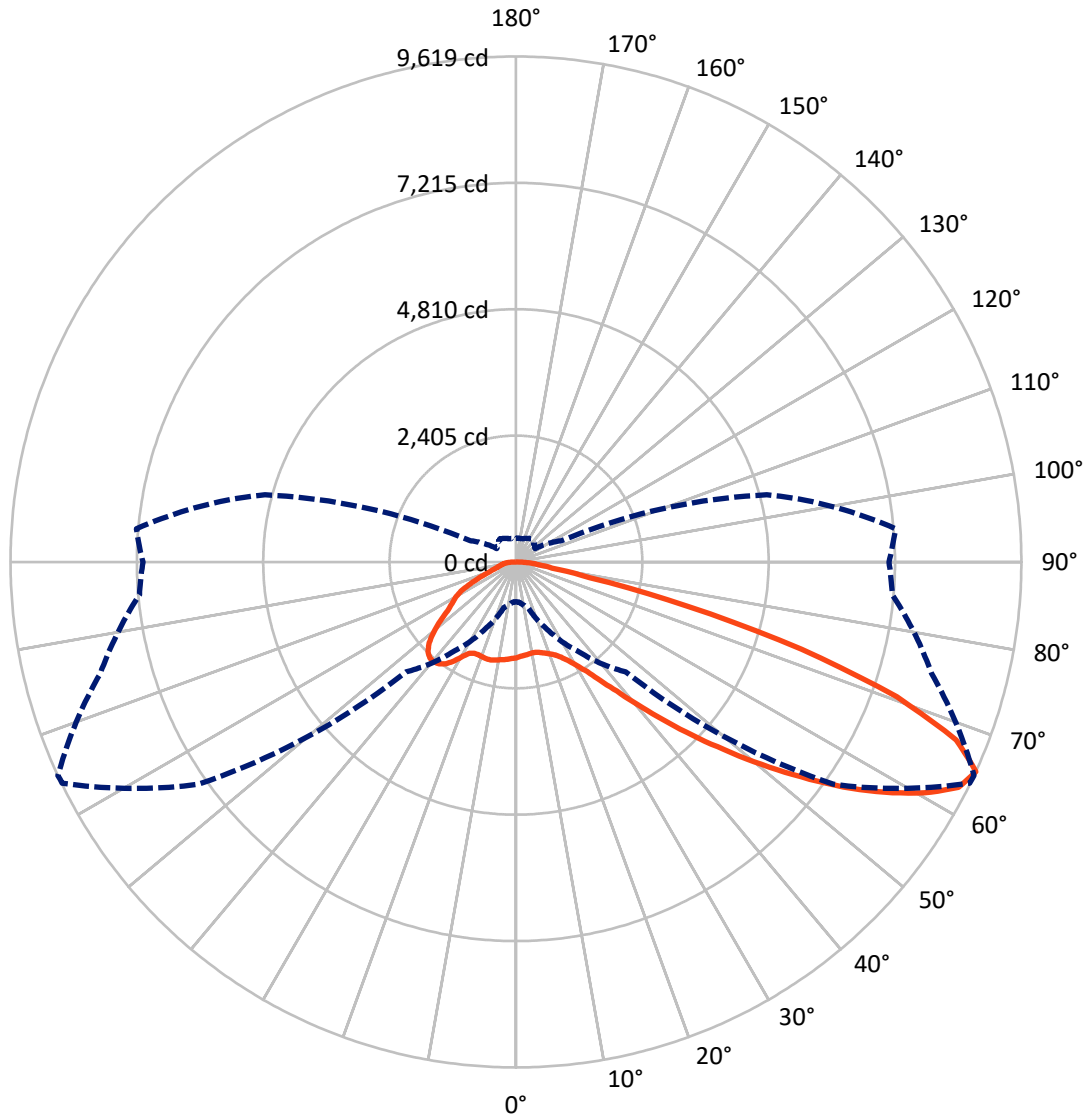
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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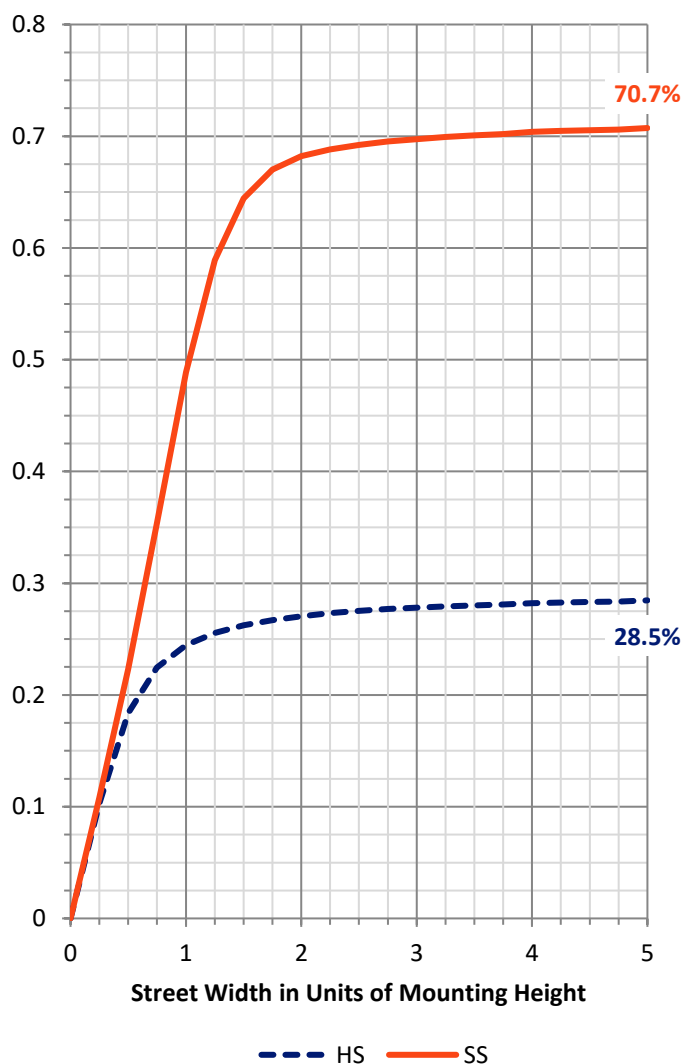
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4176.6	0.0	4176.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	10269.4	0.0	10269.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	14446.0	0.0	14446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	1.2
10°-20°	519.2	3.6
20°-30°	922.3	6.4
30°-40°	1560.3	10.8
40°-50°	2716.1	18.8
50°-60°	3510.1	24.3
60°-70°	3071.5	21.3
70°-80°	1670.7	11.6
80°-90°	301.9	2.1
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°	14446.0	100.0
0°-180°	14446.0	100.0

Coefficient of Utilization

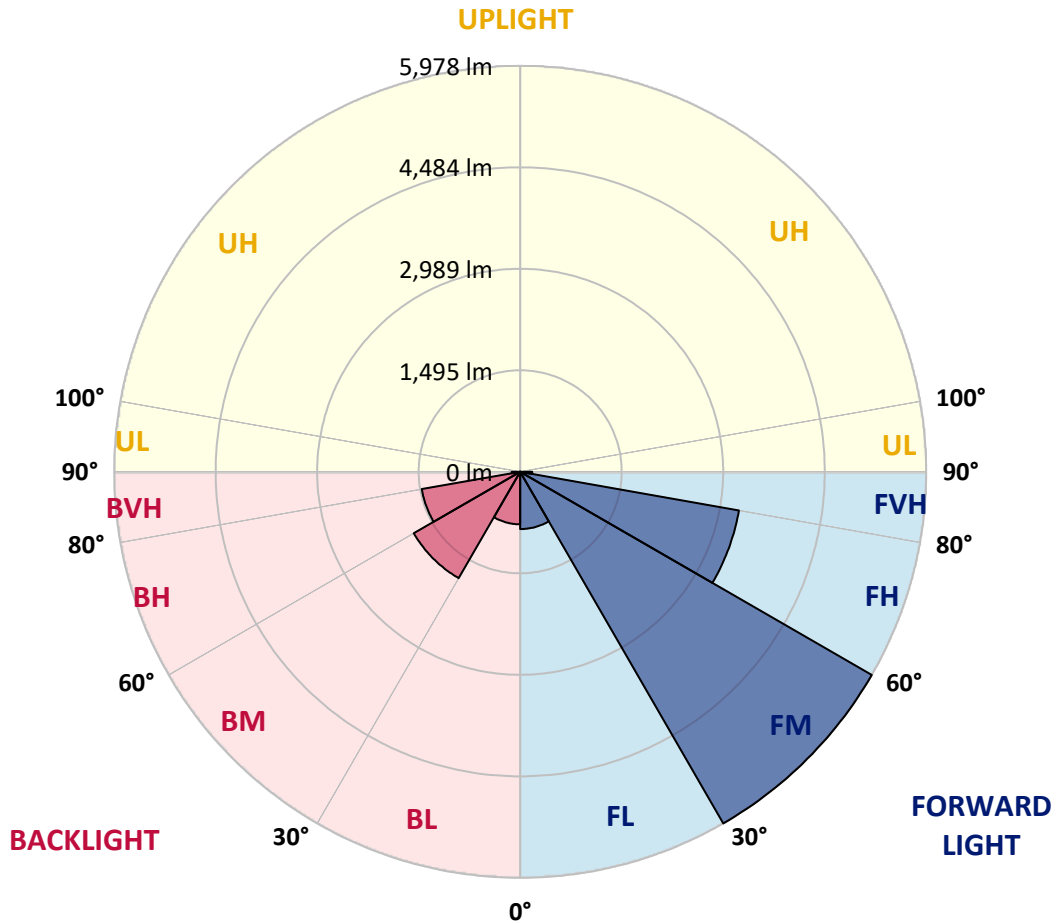


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.9	5.8			
FM (30°-60°)	5978.2	41.4			
FH (60°-80°)	3270.8	22.6			G2/5000
FVH (80°-90°)	177.6	1.2			G2/225
BL (0°-30°)	772.5	5.3	B2/1000		
BM (30°-60°)	1808.4	12.5	B2/2500		
BH (60°-80°)	1471.4	10.2	B3/2500		G3/2500
BVH (80°-90°)	124.2	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4
2.5°	1793.1	1791.2	1787.4	1791.2	1793.1	1796.9	1795.0	1798.8	1796.9	1802.6	1812.1
5°	1747.4	1743.6	1741.7	1751.2	1756.9	1766.4	1770.2	1783.6	1781.7	1791.2	1806.4
7.5°	1696.1	1696.1	1694.2	1705.6	1713.2	1730.3	1743.6	1766.4	1768.3	1785.5	1802.6
10°	1656.2	1658.1	1656.2	1665.7	1677.1	1698.0	1720.8	1753.1	1755.0	1779.8	1796.9
12.5°	1641.0	1641.0	1641.0	1654.3	1669.5	1698.0	1724.6	1758.8	1762.6	1789.3	1804.5
15°	1661.9	1663.8	1660.0	1673.3	1690.4	1724.6	1749.3	1785.5	1789.3	1814.0	1823.5
17.5°	1736.0	1743.6	1734.1	1741.7	1737.9	1764.5	1787.4	1823.5	1825.4	1846.3	1850.1
20°	1882.4	1890.0	1874.8	1865.3	1831.1	1829.2	1838.7	1867.2	1867.2	1880.5	1871.0
22.5°	2108.7	2116.3	2089.7	2053.6	1971.8	1931.9	1911.0	1924.3	1922.4	1928.1	1903.4
25°	2409.1	2407.2	2374.9	2308.4	2177.2	2080.2	2028.8	2007.9	2007.9	1996.5	1966.1
27.5°	2781.8	2753.3	2696.3	2616.4	2433.9	2298.9	2188.6	2135.3	2125.8	2091.6	2034.6
30°	3179.2	3158.3	3076.5	2960.6	2749.5	2576.5	2393.9	2287.4	2281.7	2207.6	2122.0
32.5°	3647.0	3612.8	3521.5	3382.7	3129.8	2886.4	2658.2	2496.6	2487.1	2369.2	2251.3
35°	4247.8	4219.3	4042.5	3903.7	3578.5	3259.1	2989.1	2774.2	2766.6	2622.1	2471.9
37.5°	4968.5	4894.3	4723.2	4462.7	4120.4	3742.1	3399.8	3129.8	3120.3	2960.6	2770.4
40°	5611.2	5544.6	5392.5	5152.9	4785.9	4365.7	3901.8	3574.7	3565.2	3371.3	3131.7
42.5°	6086.5	6040.9	5942.0	5803.2	5540.8	5286.0	4542.6	4112.8	4095.7	3844.7	3546.2
45°	6362.2	6326.1	6269.1	6303.3	6299.5	6252.0	5306.9	4753.6	4698.5	4373.3	4008.3
47.5°	6295.7	6263.4	6286.2	6552.4	6919.4	7195.1	6196.8	5409.6	5335.5	4911.4	4500.7
50°	5814.6	5827.9	5947.7	6457.3	7280.6	7892.9	7183.7	6156.9	6058.0	5453.4	4968.5
52.5°	4938.1	4970.4	5261.3	5974.4	7240.7	8345.5	8075.5	6928.9	6797.7	5982.0	5394.4
55°	3922.7	4004.5	4380.9	5130.1	6719.7	8377.8	8748.6	7704.7	7560.2	6478.2	5765.2
57.5°	2901.6	3023.3	3458.7	4147.1	5721.5	7866.3	9085.1	8446.2	8271.3	6970.7	6156.9
60°	1840.6	1914.8	2416.7	3228.7	4379.0	6615.1	9041.4	9077.5	8925.4	7461.3	6565.7
62.5°	1175.1	1211.2	1464.1	2302.7	3061.3	4898.1	8564.1	9554.8	9452.1	7908.1	6953.6
65°	754.9	770.1	899.4	1416.6	2084.0	2956.8	7375.7	9606.1	9619.4	8187.6	7193.2
67.5°	614.2	621.8	669.3	874.7	1473.6	1633.3	5137.7	8876.0	9037.6	8115.4	7111.4
70°	559.0	568.5	618.0	697.8	1140.9	1127.6	2487.1	7427.1	7691.4	7699.0	6748.2
72.5°	471.6	484.9	551.4	659.8	882.3	889.9	1053.4	5289.8	5679.6	6881.3	6202.5
75°	393.6	401.2	458.2	581.8	747.3	711.1	739.7	2804.6	3367.5	5518.0	5622.6
77.5°	319.4	327.0	368.9	464.0	663.6	553.3	581.8	1161.8	1435.6	3745.9	4595.8
80°	228.2	235.8	283.3	361.3	502.0	498.2	431.6	640.8	695.9	2025.0	2985.3
82.5°	163.5	169.2	214.9	258.6	348.0	500.1	325.1	435.4	456.3	897.5	1203.6
85°	110.3	110.3	148.3	171.1	224.4	315.6	262.4	294.7	308.0	425.9	325.1
87.5°	47.5	47.5	79.9	87.5	117.9	146.4	195.8	148.3	152.1	230.1	133.1
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°	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4
2.5°	1817.8	1819.7	1823.5	1834.9	1842.5	1853.9	1859.6	1867.2	1867.2	1863.4	1865.3
5°	1814.0	1819.7	1833.0	1853.9	1867.2	1888.1	1903.4	1914.8	1918.6	1914.8	1916.7
7.5°	1812.1	1821.6	1844.4	1874.8	1893.8	1920.5	1941.4	1954.7	1964.2	1960.4	1962.3
10°	1806.4	1821.6	1850.1	1888.1	1916.7	1943.3	1962.3	1968.0	1973.7	1969.9	1968.0
12.5°	1814.0	1831.1	1861.5	1907.2	1939.5	1960.4	1966.1	1956.6	1943.3	1935.7	1933.8
15°	1829.2	1846.3	1876.7	1924.3	1952.8	1960.4	1947.1	1916.7	1886.2	1869.1	1867.2
17.5°	1850.1	1861.5	1886.2	1928.1	1950.9	1941.4	1914.8	1878.6	1855.8	1842.5	1844.4
20°	1863.4	1863.4	1882.4	1914.8	1933.8	1926.2	1893.8	1853.9	1817.8	1800.7	1795.0
22.5°	1882.4	1872.9	1874.8	1903.4	1930.0	1918.6	1850.1	1779.8	1728.4	1709.4	1707.5
25°	1933.8	1907.2	1890.0	1907.2	1969.9	1876.7	1739.8	1658.1	1610.5	1593.4	1595.3
27.5°	1996.5	1960.4	1924.3	1952.8	2002.2	1781.7	1599.1	1505.9	1477.4	1464.1	1469.8
30°	2059.3	2011.7	1964.2	2066.9	1979.4	1633.3	1418.5	1327.2	1302.5	1293.0	1300.6
32.5°	2175.3	2097.3	2040.3	2219.0	1909.1	1464.1	1222.6	1139.0	1116.2	1104.7	1100.9
35°	2369.2	2270.3	2213.3	2352.1	1810.2	1275.9	1043.9	985.0	960.2	935.5	931.7
37.5°	2648.7	2528.9	2477.6	2428.2	1671.4	1089.5	907.0	867.1	830.9	792.9	791.0
40°	2983.4	2827.5	2789.4	2462.4	1479.3	914.6	811.9	773.9	728.3	692.1	694.0
42.5°	3369.4	3169.7	3088.0	2452.9	1241.6	821.4	743.5	701.6	661.7	629.4	627.5
45°	3782.0	3555.7	3367.5	2386.3	1005.9	756.8	701.6	652.2	612.3	576.1	572.3
47.5°	4238.3	3985.4	3626.1	2257.0	830.9	711.1	676.9	606.6	570.4	547.6	547.6
50°	4698.5	4396.2	3863.7	2061.2	728.3	676.9	640.8	581.8	553.3	534.3	534.3
52.5°	5092.1	4824.0	4059.6	1827.3	663.6	648.4	616.1	570.4	540.0	522.9	521.0
55°	5474.3	5221.4	4234.5	1595.3	610.4	610.4	610.4	560.9	526.7	511.5	509.6
57.5°	5854.6	5639.7	4417.1	1443.2	562.8	578.0	599.0	549.5	515.3	502.0	500.1
60°	6284.3	6141.7	4628.1	1336.7	521.0	543.8	583.7	536.2	496.3	484.9	483.0
62.5°	6740.6	6740.6	4820.2	1186.5	483.0	515.3	560.9	519.1	479.2	469.7	467.8
65°	7098.1	7252.1	4943.8	962.1	444.9	486.8	534.3	496.3	456.3	454.4	450.6
67.5°	7139.9	7381.4	4865.8	726.4	410.7	456.3	507.7	471.6	433.5	433.5	427.8
70°	6839.5	7084.8	4622.4	543.8	386.0	425.9	473.5	441.1	405.0	408.8	399.3
72.5°	6337.5	6398.4	4017.8	429.7	357.5	393.6	431.6	406.9	374.6	374.6	361.3
75°	5675.8	5337.4	2918.7	359.4	323.2	355.6	389.8	368.9	340.4	330.9	323.2
77.5°	4517.8	3867.5	1696.1	309.9	294.7	319.4	342.3	327.0	302.3	281.4	281.4
80°	2753.3	2266.5	749.2	268.1	260.5	279.5	294.7	277.6	256.7	235.8	230.1
82.5°	1047.7	874.7	363.2	230.1	228.2	239.6	251.0	233.9	218.7	209.2	180.6
85°	287.1	264.3	249.1	192.0	188.2	186.3	199.7	192.0	171.1	140.7	125.5
87.5°	108.4	123.6	135.0	117.9	125.5	116.0	133.1	121.7	108.4	70.4	62.7
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)