

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: P399152

Luminaire Tested: **ARCH-L-PA3-100-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399152
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-PA3-100-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16729 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

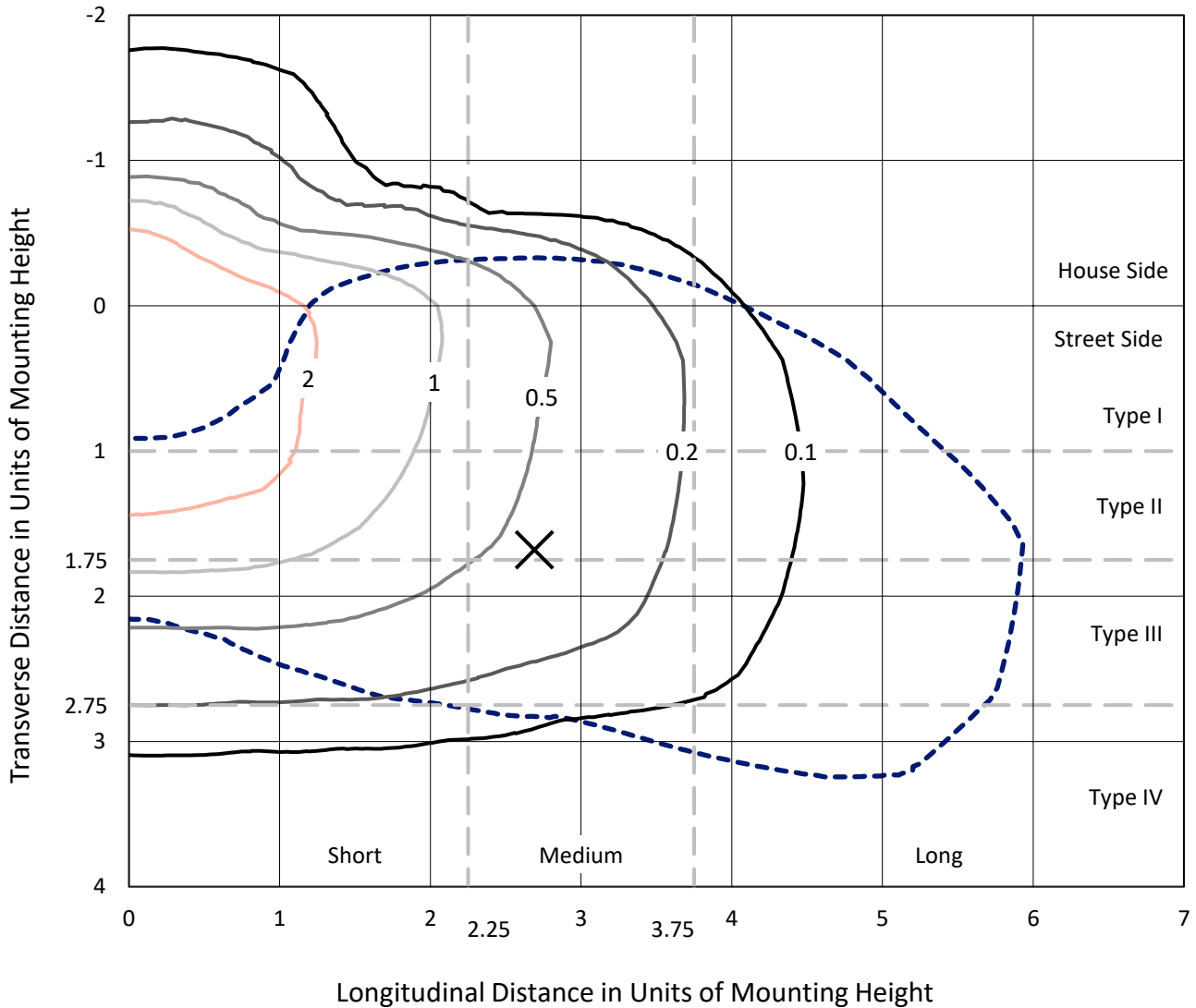
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

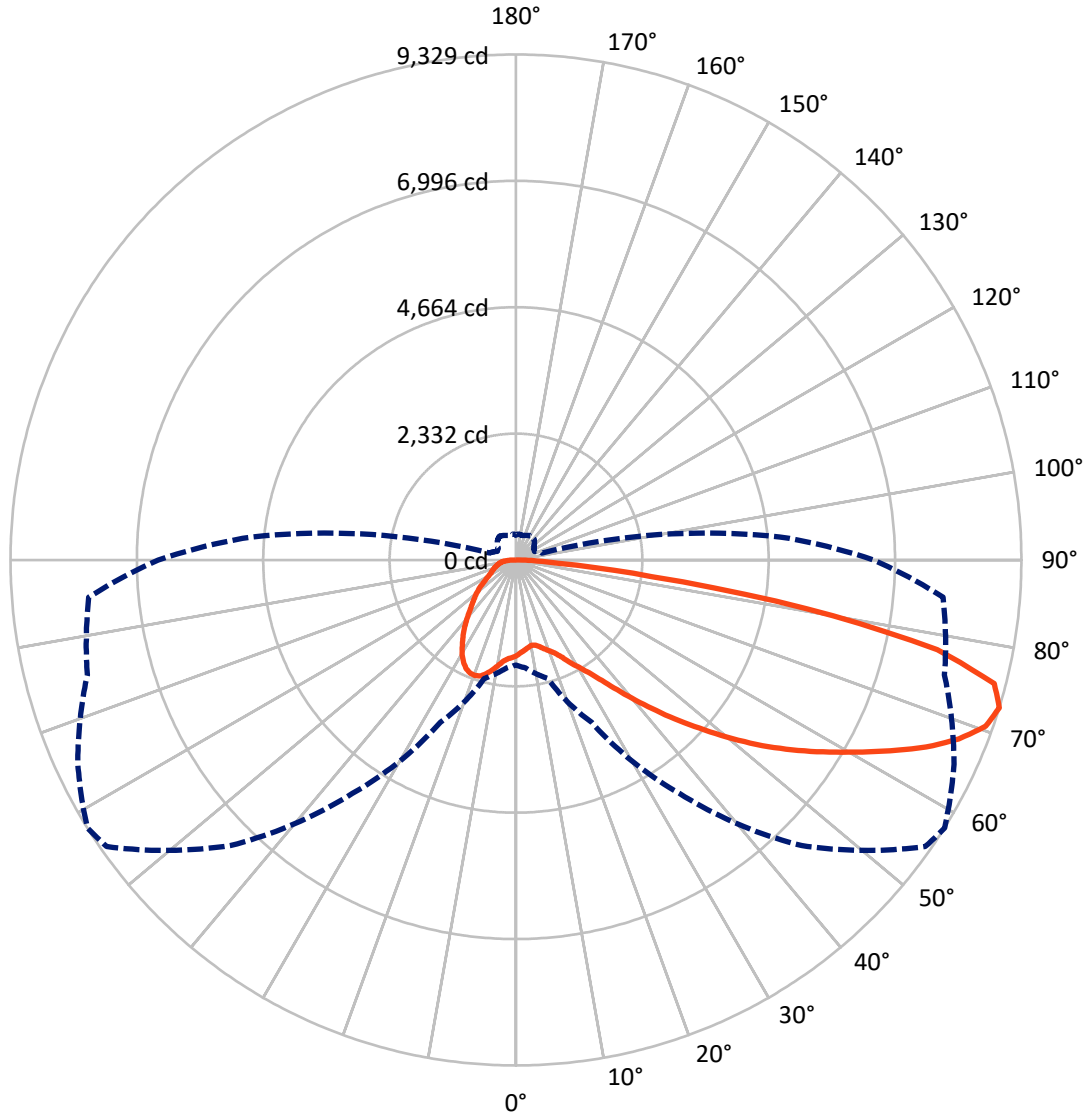
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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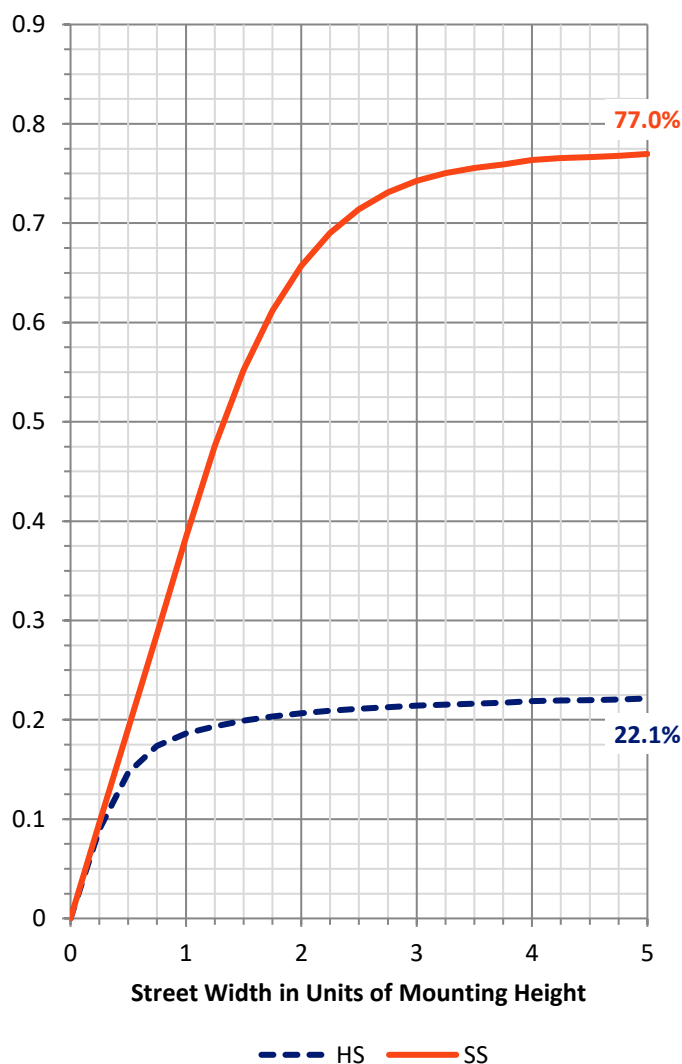
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3793.9	0.0	3793.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12935.0	0.0	12935.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	16729.0	0.0	16729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	1.0
10°-20°	539.8	3.2
20°-30°	967.0	5.8
30°-40°	1454.6	8.7
40°-50°	2355.6	14.1
50°-60°	3545.9	21.2
60°-70°	4173.1	24.9
70°-80°	2959.1	17.7
80°-90°	563.9	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°	16729.0	100.0
0°-180°	16729.0	100.0

Coefficient of Utilization



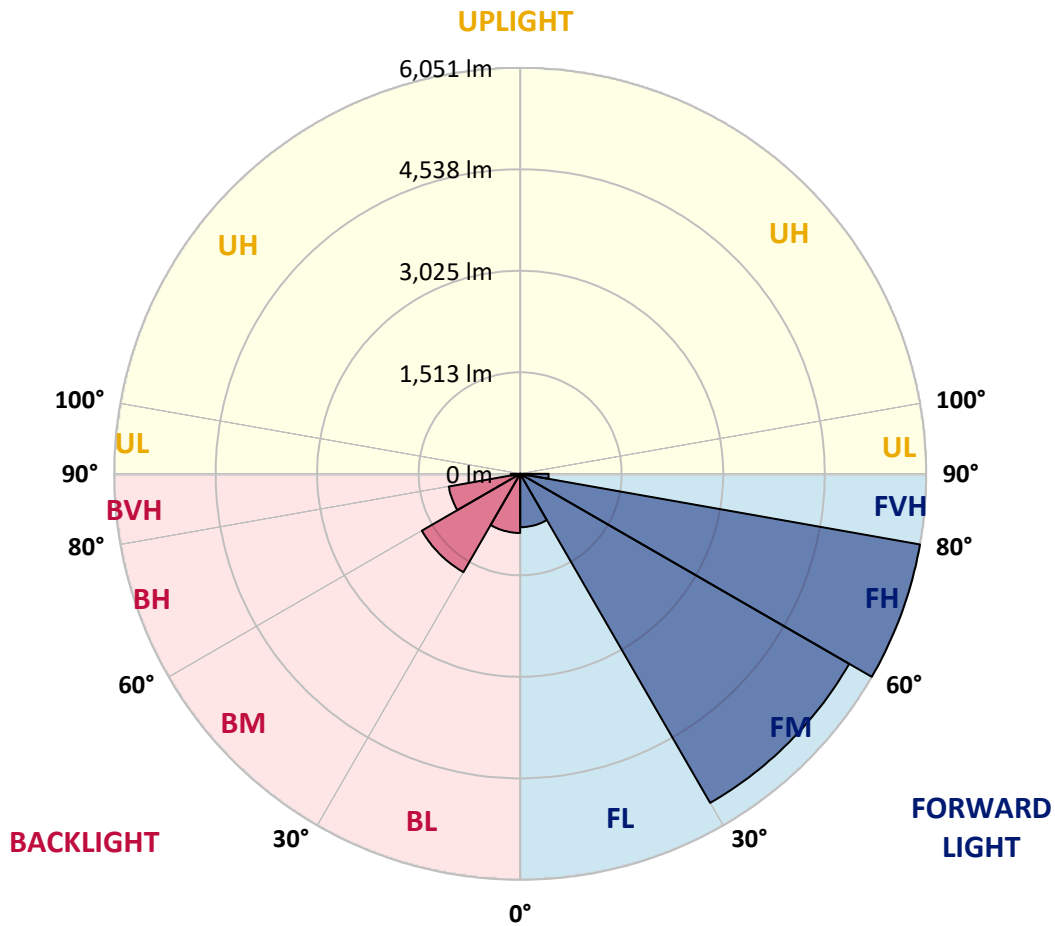
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.5	4.8			
FM (30°-60°)	5663.2	33.9			
FH (60°-80°)	6050.9	36.2			G3/7500
FVH (80°-90°)	425.3	2.5			G3/500
BL (0°-30°)	881.3	5.3	B2/1000		
BM (30°-60°)	1692.8	10.1	B2/2500		
BH (60°-80°)	1081.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	138.5	0.8			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6
2.5°	1698.3	1689.5	1691.7	1691.7	1700.5	1704.9	1707.1	1713.8	1718.2	1729.2	1744.7
5°	1618.8	1612.2	1614.4	1616.6	1632.0	1647.5	1660.8	1669.6	1682.8	1700.5	1722.6
7.5°	1561.4	1557.0	1559.2	1563.6	1576.8	1594.5	1616.6	1629.8	1649.7	1682.8	1720.4
10°	1519.4	1519.4	1521.6	1530.5	1543.7	1565.8	1583.5	1598.9	1638.7	1698.3	1755.7
12.5°	1486.3	1486.3	1492.9	1510.6	1532.7	1554.8	1596.7	1614.4	1667.4	1749.1	1817.6
15°	1484.1	1486.3	1488.5	1504.0	1528.2	1576.8	1638.7	1665.2	1729.2	1826.4	1905.9
17.5°	1519.4	1521.6	1512.8	1517.2	1545.9	1614.4	1696.1	1727.0	1808.7	1914.7	1996.4
20°	1627.6	1627.6	1601.1	1576.8	1596.7	1671.8	1764.6	1795.5	1886.0	2003.1	2084.8
22.5°	1848.5	1859.5	1797.7	1744.7	1713.8	1755.7	1839.6	1872.8	1974.4	2100.2	2182.0
25°	2115.7	2126.7	2042.8	1967.7	1910.3	1903.7	1958.9	1994.2	2078.2	2208.5	2276.9
27.5°	2374.1	2354.2	2276.9	2206.2	2133.4	2073.7	2115.7	2146.6	2243.8	2343.2	2385.1
30°	2577.3	2561.8	2486.7	2435.9	2367.5	2290.2	2265.9	2299.0	2378.5	2471.3	2493.3
32.5°	2802.5	2791.5	2716.4	2650.1	2592.7	2519.8	2466.8	2482.3	2526.5	2592.7	2606.0
35°	3089.6	3113.9	3034.4	2899.7	2835.7	2765.0	2727.4	2731.9	2765.0	2806.9	2784.9
37.5°	3392.2	3420.9	3425.3	3213.3	3127.2	3063.1	3023.4	3038.8	3078.6	3107.3	3038.8
40°	3953.1	3924.4	3809.6	3652.8	3520.3	3458.4	3403.2	3401.0	3429.7	3480.5	3356.8
42.5°	4697.4	4670.9	4439.0	4235.8	4026.0	3955.3	3847.1	3800.7	3814.0	3878.0	3705.8
45°	5410.7	5399.7	5214.2	4977.9	4726.1	4589.2	4341.8	4229.2	4218.1	4268.9	4063.6
47.5°	6044.5	5995.9	5861.2	5677.9	5651.4	5293.7	4838.7	4686.3	4633.3	4662.0	4432.4
50°	6722.5	6556.9	6371.4	6258.8	6450.9	6117.4	5340.0	5181.0	5050.7	5070.6	4832.1
52.5°	7082.5	6804.2	6682.8	6715.9	6974.3	6846.2	5885.5	5691.2	5481.4	5510.1	5229.6
55°	6773.3	6771.1	6824.1	7029.5	7389.5	7241.5	6404.5	6185.9	5956.2	5962.8	5686.8
57.5°	6349.3	6435.4	6709.3	7162.0	7904.1	7656.7	6914.7	6682.8	6473.0	6439.8	6205.8
60°	5962.8	6057.8	6455.3	7139.9	8082.9	8036.6	7400.5	7197.3	7027.3	6930.1	6751.2
62.5°	5375.4	5446.0	6009.2	6998.6	7932.8	8310.4	7893.0	7753.9	7625.8	7424.8	7338.7
65°	4684.1	4708.4	5302.5	6532.6	7745.0	8416.4	8383.3	8321.5	8197.8	7901.8	7919.5
67.5°	3935.5	3984.0	4505.2	5788.4	7334.3	8367.8	8763.1	8813.9	8668.2	8224.3	8290.5
70°	3138.2	3197.8	3593.2	4759.2	6636.4	8158.0	9114.3	9196.0	8915.5	8330.3	8359.0
72.5°	1941.2	1998.6	2263.7	3306.1	5260.5	7453.5	9222.5	9328.5	8922.1	8188.9	7912.9
75°	671.4	678.0	885.6	1585.7	3122.8	5627.1	8869.1	9118.7	8641.7	7674.4	6886.0
77.5°	307.0	318.0	393.1	653.7	1384.7	3036.6	7323.2	7948.2	7789.2	6870.5	5300.3
80°	212.0	216.4	271.6	390.9	799.5	1068.9	4622.3	5437.2	5715.5	5320.2	3396.6
82.5°	159.0	163.4	209.8	265.0	576.4	519.0	1760.1	2526.5	3140.4	3083.0	1420.0
85°	152.4	150.2	163.4	176.7	384.3	309.2	569.8	781.8	1225.7	1049.0	357.8
87.5°	66.3	72.9	167.8	99.4	201.0	143.5	247.3	289.3	373.2	324.6	128.1
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°	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6	1764.6
2.5°	1751.3	1755.7	1769.0	1788.8	1799.9	1822.0	1837.4	1846.3	1852.9	1855.1	1855.1
5°	1735.8	1744.7	1773.4	1806.5	1837.4	1883.8	1925.8	1950.1	1967.7	1974.4	1976.6
7.5°	1740.3	1762.3	1804.3	1852.9	1892.6	1952.3	2003.1	2051.7	2091.4	2106.9	2106.9
10°	1782.2	1813.1	1870.6	1934.6	1985.4	2047.2	2100.2	2142.2	2188.6	2215.1	2219.5
12.5°	1846.3	1883.8	1958.9	2029.6	2087.0	2135.6	2184.2	2215.1	2237.2	2257.0	2261.5
15°	1936.8	1983.2	2058.3	2131.2	2182.0	2212.9	2226.1	2226.1	2223.9	2226.1	2230.5
17.5°	2027.4	2071.5	2146.6	2219.5	2243.8	2226.1	2210.7	2206.2	2204.0	2199.6	2201.8
20°	2115.7	2157.7	2221.7	2276.9	2257.0	2195.2	2175.3	2173.1	2166.5	2162.1	2157.7
22.5°	2204.0	2235.0	2288.0	2307.8	2228.3	2140.0	2115.7	2102.4	2093.6	2082.6	2071.5
25°	2305.6	2314.5	2354.2	2323.3	2157.7	2038.4	2003.1	1983.2	1974.4	1963.3	1954.5
27.5°	2400.6	2400.6	2407.2	2299.0	2053.9	1903.7	1850.7	1815.3	1813.1	1810.9	1808.7
30°	2486.7	2475.7	2453.6	2226.1	1919.1	1738.1	1658.5	1623.2	1636.5	1647.5	1649.7
32.5°	2588.3	2566.2	2504.4	2126.7	1757.9	1552.5	1455.4	1439.9	1455.4	1468.6	1459.8
35°	2747.3	2707.6	2557.4	2011.9	1603.3	1382.5	1289.7	1267.7	1263.2	1261.0	1243.4
37.5°	2974.8	2906.3	2599.3	1888.2	1451.0	1232.3	1163.9	1117.5	1075.5	1031.3	1024.7
40°	3253.1	3136.0	2628.1	1746.9	1289.7	1106.4	1033.6	973.9	903.3	826.0	817.1
42.5°	3557.8	3383.3	2641.3	1590.1	1148.4	1002.6	912.1	837.0	757.5	697.9	686.8
45°	3886.9	3650.6	2630.3	1439.9	1033.6	914.3	812.7	731.0	667.0	625.0	616.2
47.5°	4207.1	3957.5	2599.3	1320.7	945.2	839.2	735.4	660.3	611.7	565.4	554.3
50°	4617.9	4251.3	2561.8	1227.9	848.0	764.1	686.8	607.3	552.1	530.0	525.6
52.5°	5072.8	4545.0	2517.6	1110.9	753.1	704.5	655.9	585.2	567.6	525.6	519.0
55°	5565.3	4893.9	2508.8	962.9	669.2	662.5	625.0	605.1	609.5	525.6	514.6
57.5°	6084.3	5267.2	2528.7	814.9	600.7	625.0	638.2	622.8	616.2	536.7	514.6
60°	6625.4	5627.1	2469.1	678.0	547.7	594.1	653.7	613.9	565.4	532.2	516.8
62.5°	7151.0	5929.7	2210.7	580.8	507.9	585.2	644.9	580.8	525.6	525.6	519.0
65°	7533.0	6064.4	1729.2	510.2	481.4	574.2	629.4	558.7	514.6	530.0	521.2
67.5°	7577.2	5925.3	1161.6	454.9	459.4	554.3	594.1	538.9	503.5	543.3	530.0
70°	7305.6	5563.1	711.1	413.0	430.6	519.0	563.2	519.0	488.1	532.2	512.4
72.5°	6601.1	4887.3	501.3	377.6	399.7	485.9	534.4	501.3	466.0	481.4	461.6
75°	5415.1	3787.5	397.5	344.5	368.8	454.9	510.2	474.8	439.5	432.9	419.6
77.5°	3836.1	2427.1	320.2	318.0	335.7	417.4	477.0	443.9	408.6	395.3	386.5
80°	2206.2	1190.4	276.1	287.1	304.8	379.9	437.3	408.6	375.4	355.6	342.3
82.5°	843.6	415.2	242.9	249.6	269.4	340.1	397.5	373.2	340.1	357.8	300.3
85°	273.8	227.5	198.8	205.4	225.3	282.7	351.1	331.3	293.7	260.6	240.7
87.5°	121.5	123.7	106.0	117.0	141.3	187.7	256.2	242.9	214.2	178.9	172.3
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)