

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: P399316

Luminaire Tested: **ARCH-L-PA3-120-827-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
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-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14430 lumens
Efficiency: N/A
Efficacy: 117.3 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

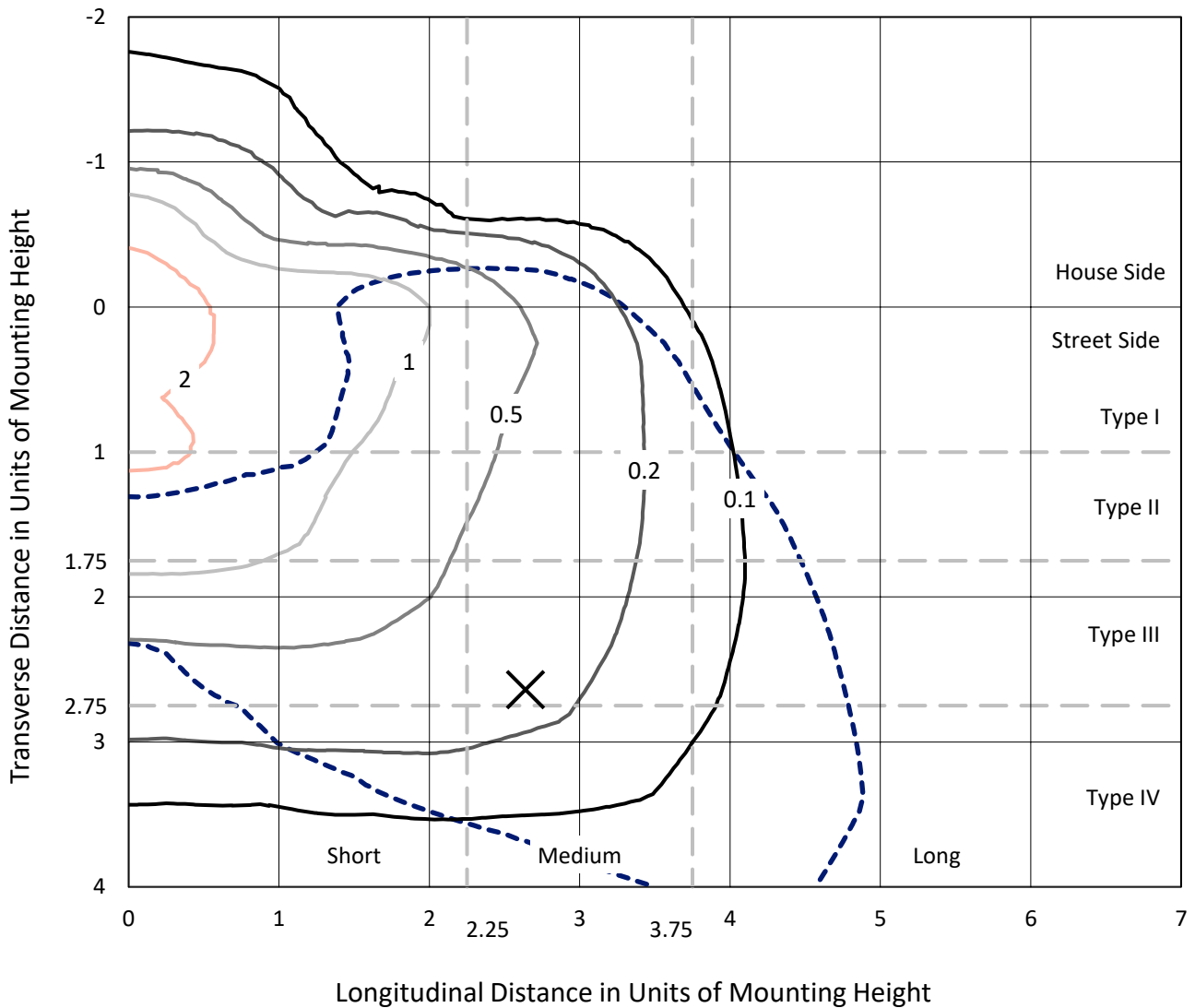
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399316
 CATALOG NUMBER: ARCH-L-PA3-120-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

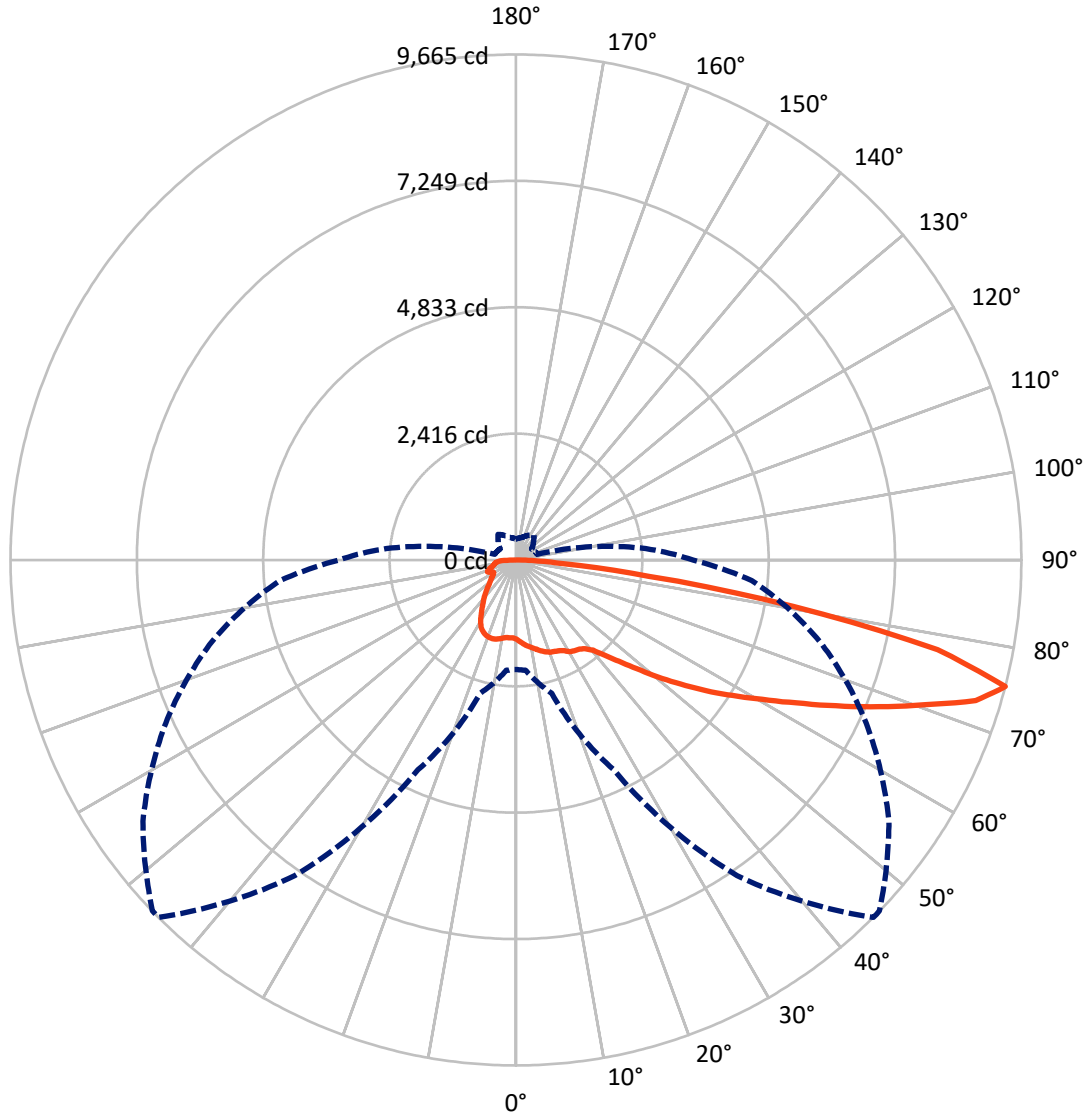
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399316
CATALOG NUMBER: ARCH-L-PA3-120-827-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P399316
 CATALOG NUMBER: ARCH-L-PA3-120-827-U-T4W

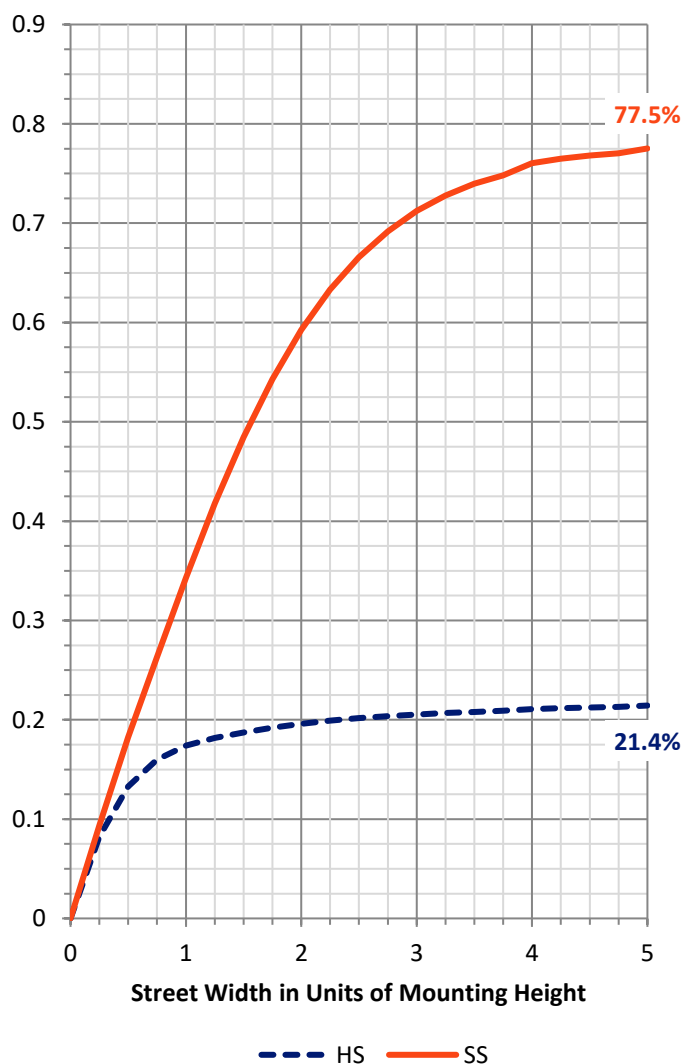
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3189.0	0.0	3189.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	11241.0	0.0	11241.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	14430.0	0.0	14430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	1.0
10°-20°	477.0	3.3
20°-30°	813.1	5.6
30°-40°	1139.3	7.9
40°-50°	1673.8	11.6
50°-60°	2663.9	18.5
60°-70°	3789.4	26.3
70°-80°	3172.9	22.0
80°-90°	550.6	3.8
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°	14430.0	100.0
0°-180°	14430.0	100.0

Coefficient of Utilization



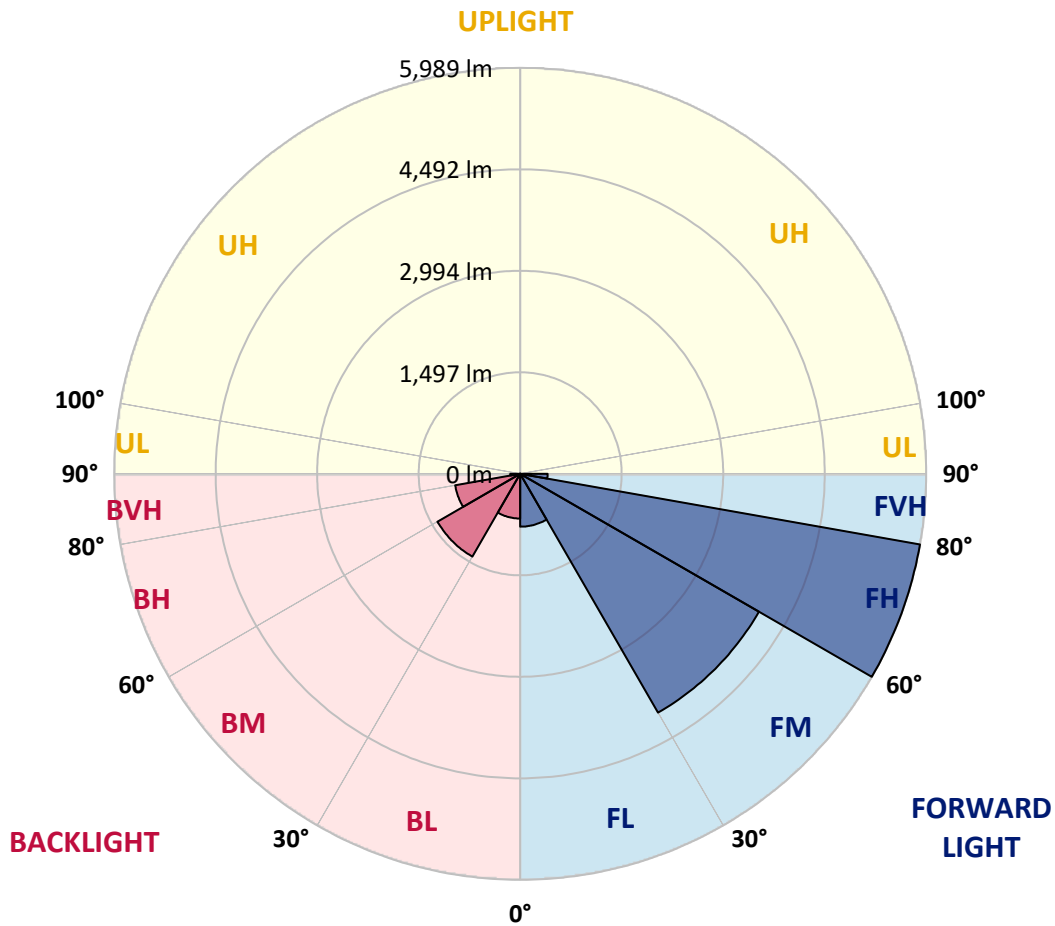
REPORT NUMBER: P399316
 CATALOG NUMBER: ARCH-L-PA3-120-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.0	5.4			
FM (30°-60°)	4067.4	28.2			
FH (60°-80°)	5988.8	41.5			G3/7500
FVH (80°-90°)	404.8	2.8			G3/500
BL (0°-30°)	660.0	4.6	B2/1000		
BM (30°-60°)	1409.7	9.8	B2/2500		
BH (60°-80°)	973.5	6.7	B2/1000		G2/1000
BVH (80°-90°)	145.8	1.0			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





REPORT NUMBER: P399316

CATALOG NUMBER: ARCH-L-PA3-120-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5
2.5°	1602.2	1594.5	1590.7	1590.7	1575.2	1565.6	1563.7	1550.2	1538.6	1527.0	1517.4
5°	1694.8	1689.0	1677.4	1667.8	1646.6	1619.6	1615.7	1586.8	1557.9	1530.9	1507.8
7.5°	1779.6	1768.0	1754.5	1735.3	1700.6	1663.9	1658.1	1617.7	1577.2	1536.7	1505.8
10°	1851.0	1839.4	1820.1	1793.1	1748.8	1704.4	1698.6	1656.2	1613.8	1565.6	1521.2
12.5°	1918.4	1908.8	1879.9	1843.2	1791.2	1750.7	1744.9	1708.3	1663.9	1609.9	1552.1
15°	1976.3	1966.6	1935.8	1893.4	1833.6	1802.7	1795.0	1760.3	1716.0	1658.1	1598.4
17.5°	2005.2	2005.2	1972.4	1926.1	1870.2	1847.1	1841.3	1798.9	1758.4	1702.5	1642.7
20°	2014.8	2018.7	1995.6	1939.6	1891.4	1881.8	1876.0	1841.3	1795.0	1741.1	1685.1
22.5°	2020.6	2028.3	2009.1	1945.4	1904.9	1899.2	1895.3	1872.2	1835.5	1783.5	1727.6
25°	2039.9	2039.9	2026.4	1955.1	1922.3	1920.4	1920.4	1906.9	1881.8	1837.5	1781.5
27.5°	2068.8	2066.9	2049.5	1976.3	1960.9	1966.6	1964.7	1962.8	1945.4	1901.1	1841.3
30°	2117.0	2117.0	2097.7	2018.7	2009.1	2034.1	2036.0	2039.9	2012.9	1943.5	1895.3
32.5°	2190.3	2182.6	2163.3	2061.1	2045.7	2068.8	2072.7	2070.8	2047.6	1982.1	1958.9
35°	2415.9	2398.5	2329.1	2155.6	2078.5	2092.0	2093.9	2103.5	2107.4	2055.3	2043.8
37.5°	2811.1	2788.0	2682.0	2379.2	2182.6	2149.8	2147.9	2172.9	2194.1	2147.9	2147.9
40°	3241.1	3221.8	3160.1	2764.9	2375.4	2267.4	2259.7	2282.8	2309.8	2277.1	2286.7
42.5°	3611.3	3626.7	3632.5	3173.6	2664.6	2487.2	2466.0	2433.2	2475.6	2446.7	2485.3
45°	3888.9	3881.2	3987.3	3592.0	3038.6	2762.9	2734.0	2645.3	2699.3	2697.4	2782.2
47.5°	4183.9	4170.4	4214.8	3985.3	3464.7	3100.3	3056.0	2924.9	3005.9	3061.8	3202.5
50°	4463.5	4467.3	4482.8	4295.7	3927.5	3511.0	3455.1	3279.7	3395.3	3512.9	3711.5
52.5°	4827.9	4800.9	4781.6	4658.2	4446.1	3939.1	3902.4	3701.9	3863.9	4002.7	4266.8
55°	5146.0	5128.7	5117.1	5111.3	4880.0	4411.4	4372.9	4164.6	4397.9	4496.3	4885.7
57.5°	5485.4	5475.7	5537.4	5635.8	5543.2	4891.5	4851.0	4650.5	4910.8	4980.2	5556.7
60°	5734.1	5739.9	5909.5	6160.2	6096.6	5412.1	5363.9	5186.5	5410.2	5471.9	6227.7
62.5°	5736.0	5793.9	6187.2	6636.4	6709.7	6011.7	5955.8	5763.0	5923.0	5923.0	6829.2
65°	5188.4	5254.0	6137.1	6754.0	7330.5	6725.1	6671.1	6368.4	6428.2	6347.2	7394.2
67.5°	4642.8	4719.9	5550.9	6763.7	7766.3	7488.6	7425.0	6973.8	6871.7	6667.3	7789.4
70°	4280.3	4334.3	5028.4	6638.4	8028.5	8286.9	8238.7	7548.4	7220.6	6935.3	7706.5
72.5°	3603.6	3584.3	4247.5	6042.6	8175.0	9193.1	9152.6	8173.1	7523.3	6808.0	6572.8
75°	2092.0	2115.1	2635.7	4426.9	7369.1	9665.4	9661.6	8707.2	7390.3	6013.7	4529.0
77.5°	603.5	620.8	865.7	1945.4	4660.2	8244.4	8508.6	7962.9	6247.0	4286.1	2348.4
80°	264.1	277.6	376.0	647.8	2007.1	5385.1	5616.5	5385.1	3767.5	1966.6	921.6
82.5°	156.2	165.8	244.9	401.0	962.1	2562.4	2874.8	2510.4	1625.4	834.9	381.8
85°	88.7	92.5	140.7	254.5	605.4	896.6	1006.5	942.8	792.4	474.3	200.5
87.5°	40.5	42.4	69.4	119.5	339.3	302.7	314.3	416.5	458.9	289.2	100.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399316

CATALOG NUMBER: ARCH-L-PA3-120-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5
2.5°	1513.5	1507.8	1496.2	1492.3	1486.5	1488.5	1490.4	1490.4	1492.3	1486.5	1486.5
5°	1498.1	1488.5	1476.9	1476.9	1476.9	1492.3	1505.8	1513.5	1517.4	1517.4	1513.5
7.5°	1492.3	1480.8	1467.3	1471.1	1475.0	1494.3	1519.3	1544.4	1552.1	1552.1	1548.2
10°	1503.9	1492.3	1482.7	1488.5	1498.1	1513.5	1532.8	1556.0	1575.2	1577.2	1575.2
12.5°	1530.9	1517.4	1507.8	1519.3	1530.9	1540.5	1550.2	1559.8	1584.9	1588.7	1588.7
15°	1575.2	1561.7	1550.2	1559.8	1563.7	1563.7	1563.7	1563.7	1588.7	1592.6	1592.6
17.5°	1619.6	1608.0	1596.4	1598.4	1586.8	1571.4	1565.6	1563.7	1577.2	1588.7	1590.7
20°	1662.0	1652.4	1640.8	1621.5	1592.6	1563.7	1554.0	1554.0	1561.7	1579.1	1579.1
22.5°	1708.3	1696.7	1677.4	1633.1	1584.9	1544.4	1534.7	1540.5	1550.2	1573.3	1571.4
25°	1760.3	1744.9	1712.1	1629.2	1559.8	1511.6	1513.5	1530.9	1548.2	1573.3	1573.3
27.5°	1818.2	1797.0	1731.4	1598.4	1503.9	1457.6	1475.0	1515.5	1540.5	1567.5	1571.4
30°	1881.8	1862.5	1746.8	1544.4	1413.3	1370.9	1413.3	1478.8	1517.4	1542.5	1548.2
32.5°	1958.9	1943.5	1760.3	1475.0	1295.7	1259.0	1320.7	1401.7	1463.4	1492.3	1498.1
35°	2055.3	2039.9	1777.7	1395.9	1185.8	1147.2	1203.1	1286.0	1367.0	1403.6	1415.2
37.5°	2180.7	2157.5	1793.1	1311.1	1093.2	1048.9	1075.9	1151.1	1224.3	1274.5	1288.0
40°	2340.7	2304.0	1806.6	1214.7	1012.2	962.1	971.7	1008.4	1050.8	1095.1	1112.5
42.5°	2566.3	2493.0	1808.5	1112.5	929.3	883.1	879.2	890.8	890.8	890.8	896.6
45°	2880.5	2741.7	1812.4	1016.1	844.5	796.3	784.7	780.9	751.9	696.0	692.2
47.5°	3277.7	3067.6	1829.7	935.1	755.8	713.4	698.0	682.5	628.6	570.7	559.1
50°	3786.7	3445.5	1864.4	858.0	680.6	651.7	632.4	595.8	536.0	491.7	480.1
52.5°	4372.9	3894.7	1897.2	777.0	624.7	605.4	582.3	537.9	474.3	447.3	443.5
55°	5045.8	4396.0	1962.8	705.7	576.5	563.0	541.8	499.4	451.2	431.9	430.0
57.5°	5734.1	4957.1	2055.3	642.0	530.2	522.5	522.5	485.9	455.0	447.3	447.3
60°	6397.3	5439.1	1984.0	582.3	487.8	491.7	528.3	518.7	495.5	505.2	510.9
62.5°	6912.1	5722.5	1609.9	534.1	457.0	491.7	586.1	586.1	559.1	555.3	555.3
65°	7131.9	5718.7	1131.8	497.4	445.4	539.9	653.6	622.8	551.4	524.4	518.7
67.5°	7076.0	5468.0	780.9	472.4	441.5	590.0	684.5	597.7	516.7	493.6	476.2
70°	6584.4	4937.8	601.6	449.2	435.7	568.8	674.8	568.8	489.7	468.5	453.1
72.5°	5311.8	3960.3	499.4	426.1	412.6	526.4	642.0	541.8	468.5	445.4	430.0
75°	3387.6	2491.1	422.2	395.3	368.3	472.4	597.7	514.8	445.4	414.5	403.0
77.5°	1629.2	1073.9	368.3	358.6	331.6	437.7	553.4	480.1	414.5	389.5	381.8
80°	659.4	491.7	320.1	322.0	304.6	416.5	522.5	447.3	383.7	356.7	343.2
82.5°	343.2	285.4	269.9	277.6	277.6	397.2	499.4	420.3	356.7	345.1	300.8
85°	185.1	177.4	208.2	223.7	241.0	358.6	464.7	391.4	325.8	279.6	269.9
87.5°	90.6	115.7	117.6	135.0	167.7	287.3	391.4	327.8	271.9	225.6	221.7
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)