

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: P258091

Luminaire Tested: **ARCH-L-AF72-150-D-U-T2U-7050-HSS**

Issue Date: 8/21/2018

Test Information

Test Method: LM-79-08
Report Number: P258091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/21/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T2U-7050-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13847 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

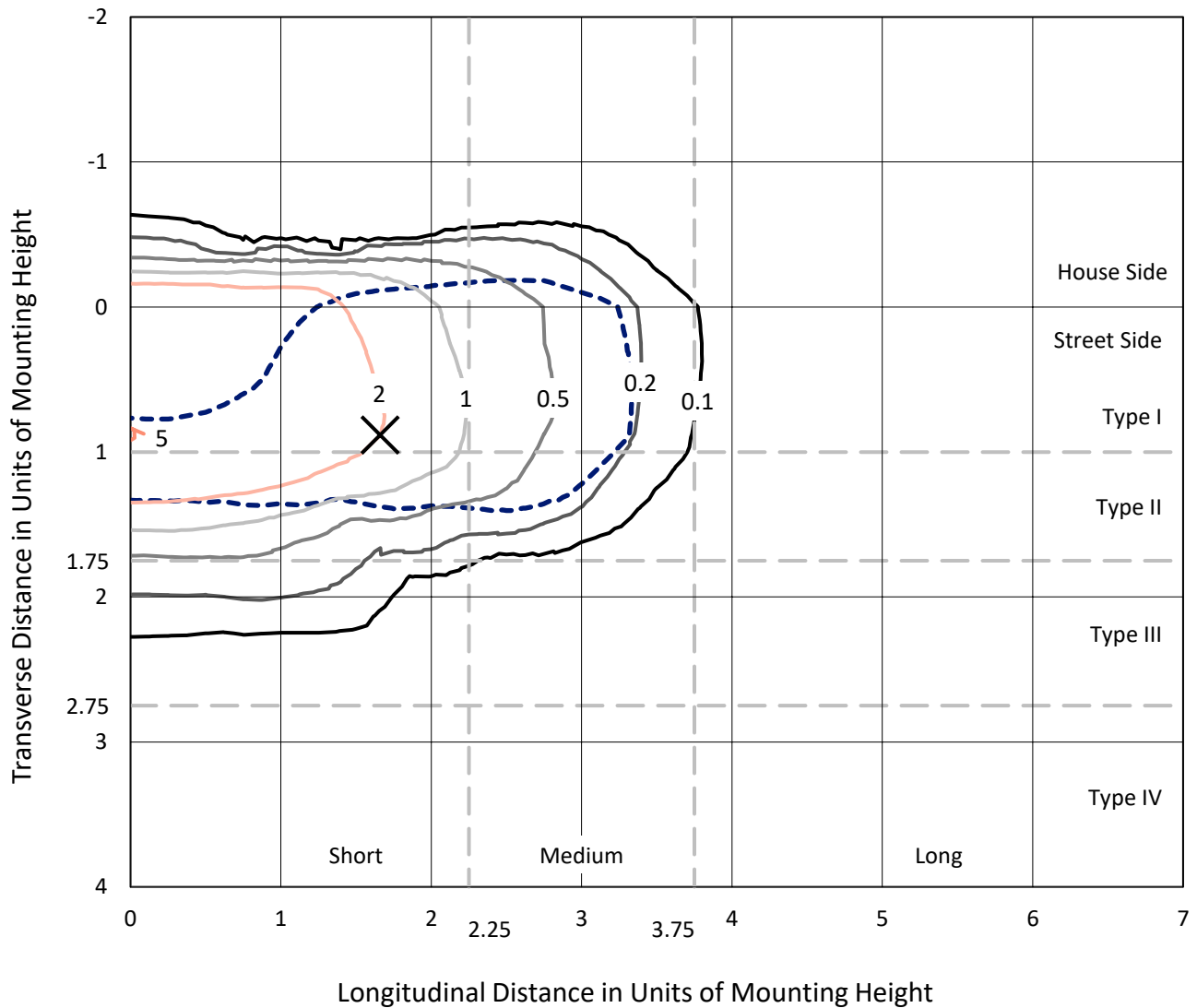
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P258091
 CATALOG NUMBER: ARCH-L-AF72-150-D-U-T2U-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

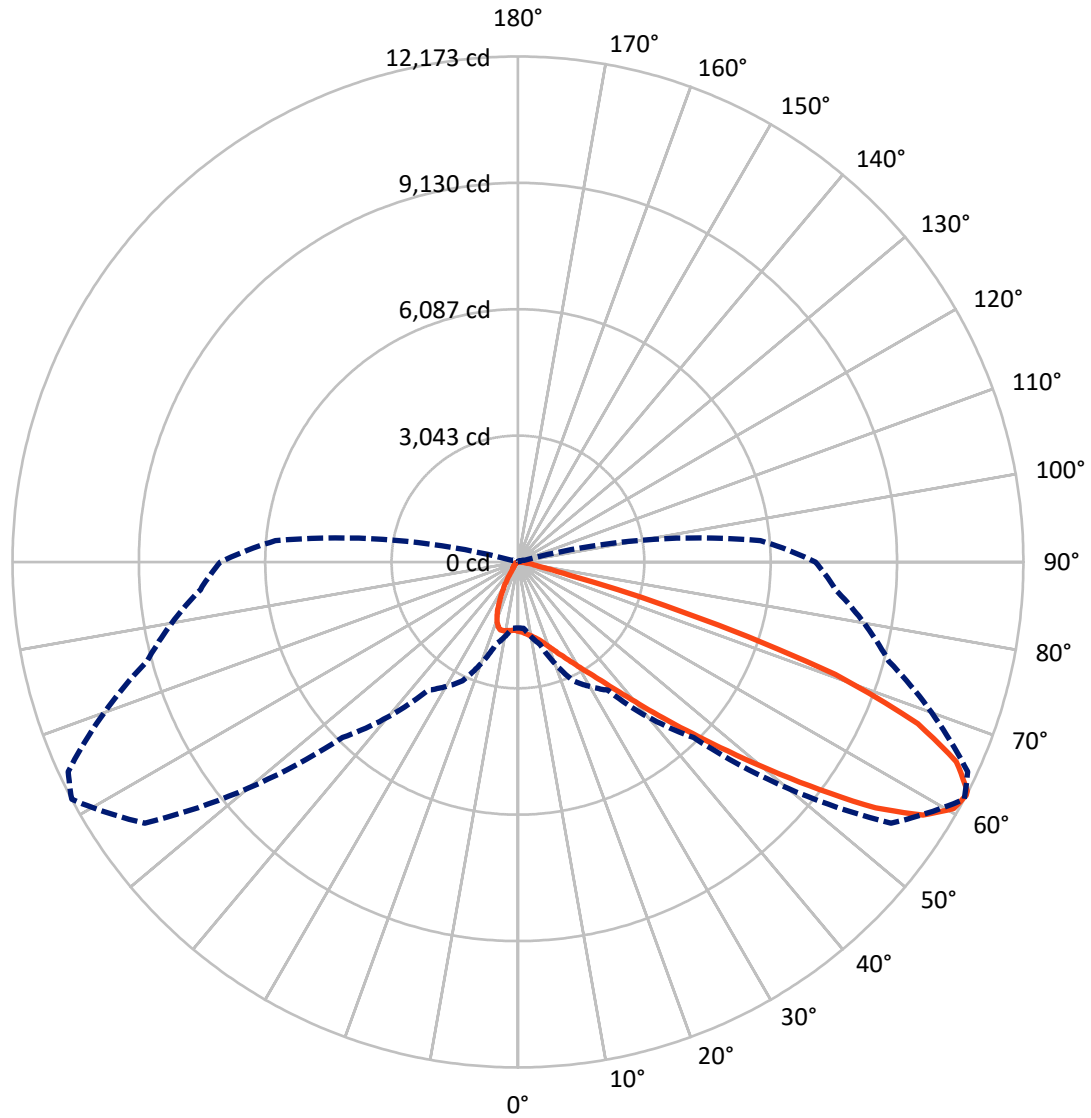
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

REPORT NUMBER: P258091
CATALOG NUMBER: ARCH-L-AF72-150-D-U-T2U-7050-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

REPORT NUMBER: P258091

CATALOG NUMBER: ARCH-L-AF72-150-D-U-T2U-7050-HSS

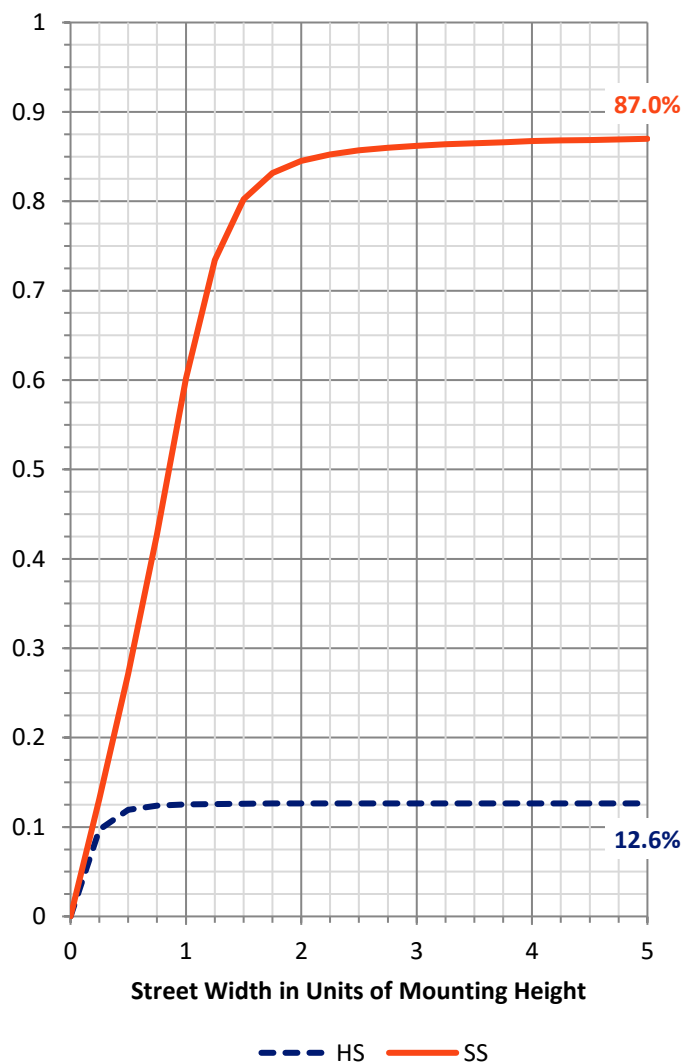
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1770.5	0.0	1770.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12076.5	0.0	12076.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	13847.0	0.0	13847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.2
10°-20°	448.3	3.2
20°-30°	752.9	5.4
30°-40°	1443.2	10.4
40°-50°	2947.7	21.3
50°-60°	3900.8	28.2
60°-70°	3030.3	21.9
70°-80°	1093.8	7.9
80°-90°	69.7	0.5
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°	13847.0	100.0
0°-180°	13847.0	100.0

Coefficient of Utilization



REPORT NUMBER: P258091

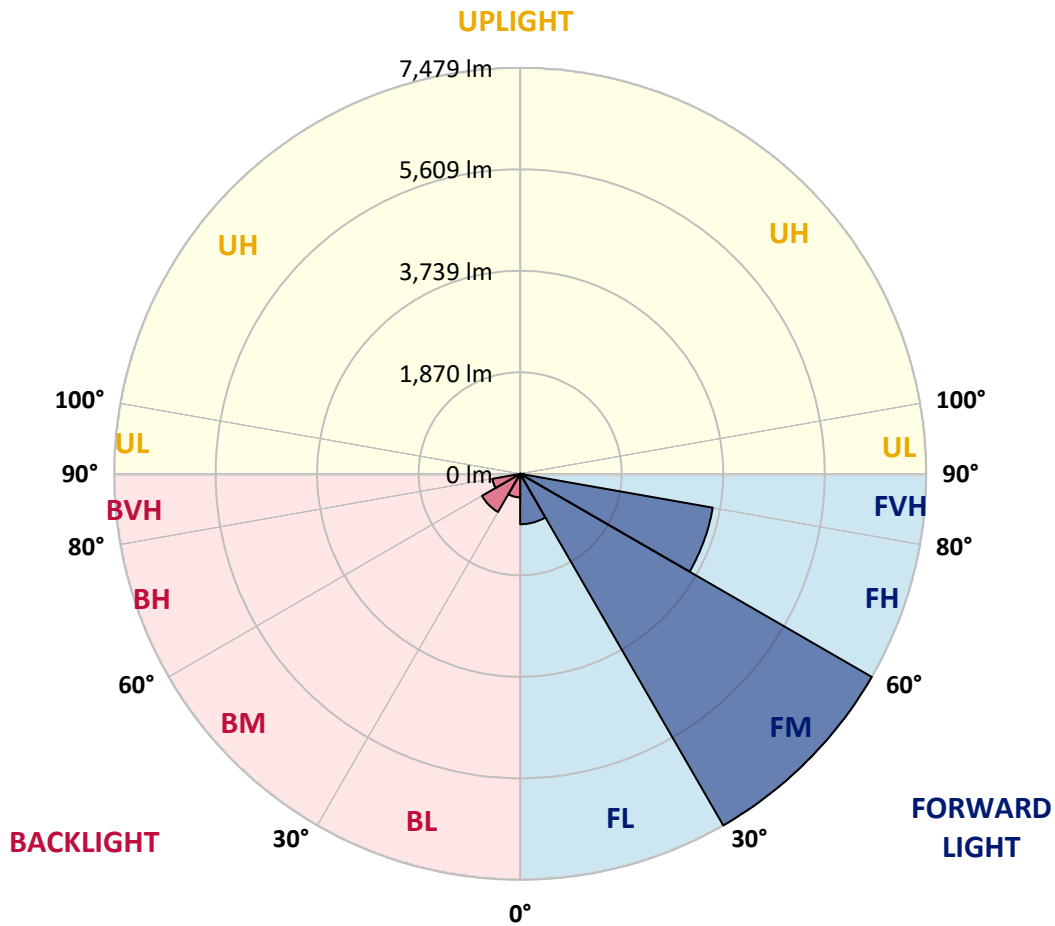
CATALOG NUMBER: ARCH-L-AF72-150-D-U-T2U-7050-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	928.3	6.7			
FM (30°-60°)	7478.8	54.0			
FH (60°-80°)	3602.7	26.0			G2/5000
FVH (80°-90°)	66.7	0.5			G1/100
BL (0°-30°)	433.3	3.1	B1/500		
BM (30°-60°)	812.8	5.9	B1/1000		
BH (60°-80°)	521.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P258091

CATALOG NUMBER: ARCH-L-AF72-150-D-U-T2U-7050-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1
2.5°	1712.3	1708.9	1705.5	1702.1	1702.1	1698.7	1695.3	1688.5	1681.7	1674.9	1671.5
5°	1742.9	1739.5	1736.1	1739.5	1736.1	1736.1	1732.7	1725.9	1719.1	1708.9	1698.7
7.5°	1766.8	1763.4	1760.0	1763.4	1766.8	1770.2	1773.6	1766.8	1763.4	1749.8	1739.5
10°	1797.4	1794.0	1790.6	1797.4	1797.4	1814.4	1817.8	1814.4	1811.0	1800.8	1783.8
12.5°	1841.7	1845.1	1845.1	1851.9	1858.7	1879.1	1885.9	1875.7	1875.7	1862.1	1841.7
15°	1923.4	1923.4	1923.4	1930.2	1933.6	1960.8	1967.6	1957.4	1964.2	1940.4	1920.0
17.5°	2001.7	2005.1	2011.9	2025.5	2025.5	2049.3	2062.9	2062.9	2076.6	2045.9	2018.7
20°	2080.0	2083.4	2093.6	2124.2	2124.2	2154.9	2178.7	2188.9	2202.5	2171.9	2124.2
22.5°	2165.1	2165.1	2182.1	2229.7	2219.5	2280.8	2325.1	2342.1	2355.7	2314.8	2240.0
25°	2294.4	2280.8	2294.4	2338.7	2331.9	2417.0	2498.7	2515.7	2532.7	2485.1	2372.7
27.5°	2539.5	2519.1	2471.4	2474.8	2474.8	2573.6	2689.3	2713.1	2723.3	2682.5	2542.9
30°	3029.7	3029.7	2852.7	2733.6	2655.3	2743.8	2907.2	2948.0	2961.6	2900.4	2716.5
32.5°	3884.2	3884.2	3557.4	3254.4	2958.2	2958.2	3145.5	3220.4	3234.0	3162.5	2948.0
35°	4973.5	4966.7	4476.5	4061.2	3482.5	3264.6	3424.6	3550.6	3591.4	3496.1	3247.6
37.5°	6130.9	6086.7	5559.0	5082.5	4289.3	3754.8	3802.5	3969.3	4006.7	3928.4	3635.7
40°	7070.5	7019.4	6593.9	6195.6	5331.0	4537.8	4347.1	4500.3	4544.6	4435.7	4098.6
42.5°	7921.5	7795.6	7502.8	7216.9	6529.2	5892.6	5072.2	5133.5	5181.2	5065.4	4619.5
45°	8537.7	8343.7	8193.9	8105.4	7741.1	7380.3	6011.8	5889.2	5906.3	5763.3	5188.0
47.5°	8554.7	8418.6	8432.2	8663.7	8813.4	8799.8	7233.9	6798.2	6733.5	6495.2	5793.9
50°	7737.7	7816.0	8064.5	8724.9	9535.1	10025.3	8687.5	7873.9	7679.8	7250.9	6396.5
52.5°	6376.0	6498.6	6965.0	8078.1	9640.7	10832.1	10195.5	9102.8	8755.6	7999.8	6859.4
55°	4993.9	5000.8	5491.0	6624.5	8936.0	10978.5	11400.6	10454.3	9923.2	8568.3	7165.8
57.5°	3434.8	3622.1	4245.0	5007.6	7346.2	10250.0	11853.4	11502.7	10818.5	8919.0	7380.3
60°	2250.2	2260.4	2985.5	3867.2	5000.8	8340.3	11577.6	12057.6	11543.6	9126.6	7526.7
62°	1586.4	1603.4	2052.7	3159.1	3768.4	5977.8	10968.3	12173.4	11952.1	9249.2	7679.8
62.5°	1470.6	1484.2	1862.1	2982.1	3540.4	5361.6	10750.4	12146.1	12013.4	9290.0	7734.3
65°	1079.1	1079.1	1218.7	2049.3	2594.0	2897.0	9109.6	11604.9	11931.7	9616.8	7938.6
67.5°	834.0	840.8	888.5	1263.0	1957.4	1756.6	5814.4	10386.2	11080.6	10100.2	8054.3
70°	718.3	714.9	748.9	837.4	1412.7	1167.6	2559.9	8105.4	9279.8	9977.7	7948.8
72.5°	531.1	534.5	612.8	735.3	983.8	759.1	1157.4	4302.9	6018.6	7809.2	6811.8
75°	340.4	343.8	432.3	578.7	708.1	497.0	667.2	1283.4	2464.6	4330.1	4166.7
77.5°	228.1	234.9	282.5	405.1	619.6	309.8	418.7	537.9	742.1	1623.8	1494.4
80°	153.2	153.2	180.4	272.3	391.5	258.7	224.7	357.4	384.7	503.8	251.9
82.5°	102.1	102.1	119.1	180.4	255.3	231.5	136.2	194.0	224.7	251.9	88.5
85°	61.3	61.3	81.7	112.3	166.8	129.4	88.5	108.9	115.7	160.0	47.7
87.5°	37.4	34.0	54.5	78.3	88.5	78.3	57.9	57.9	61.3	88.5	23.8
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: P258091

CATALOG NUMBER: ARCH-L-AF72-150-D-U-T2U-7050-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1
2.5°	1664.6	1661.2	1657.8	1651.0	1640.8	1634.0	1627.2	1620.4	1613.6	1613.6	1623.8
5°	1695.3	1685.1	1671.5	1657.8	1637.4	1623.8	1613.6	1600.0	1593.2	1593.2	1596.6
7.5°	1732.7	1722.5	1698.7	1674.9	1644.2	1620.4	1596.6	1565.9	1542.1	1531.9	1542.1
10°	1773.6	1760.0	1725.9	1688.5	1654.4	1593.2	1514.9	1419.5	1337.8	1300.4	1317.4
12.5°	1824.6	1807.6	1766.8	1715.7	1637.4	1487.6	1293.6	1072.3	932.7	868.1	881.7
15°	1899.5	1875.7	1817.8	1739.5	1565.9	1242.5	925.9	670.6	541.3	486.8	493.6
17.5°	1988.0	1957.4	1879.1	1732.7	1382.1	895.3	551.5	391.5	337.0	323.4	323.4
20°	2083.4	2042.5	1940.4	1681.7	1103.0	561.7	343.8	299.6	279.1	268.9	268.9
22.5°	2182.1	2127.6	1991.4	1562.5	786.4	350.6	282.5	251.9	228.1	217.9	217.9
25°	2301.2	2229.7	2042.5	1354.9	500.4	282.5	241.7	211.1	187.2	173.6	177.0
27.5°	2440.8	2348.9	2086.8	1096.1	323.4	245.1	200.8	170.2	149.8	143.0	143.0
30°	2587.2	2478.2	2097.0	820.4	262.1	211.1	166.8	139.6	126.0	119.1	119.1
32.5°	2788.0	2645.1	2066.3	544.7	221.3	177.0	139.6	115.7	105.5	102.1	102.1
35°	3053.6	2862.9	1994.9	337.0	187.2	146.4	115.7	102.1	91.9	88.5	88.5
37.5°	3390.6	3165.9	1868.9	231.5	160.0	119.1	98.7	88.5	81.7	78.3	78.3
40°	3839.9	3533.5	1705.5	200.8	136.2	102.1	85.1	78.3	71.5	71.5	71.5
42.5°	4316.5	3979.5	1494.4	177.0	115.7	88.5	74.9	68.1	64.7	61.3	61.3
45°	4837.3	4435.7	1232.3	156.6	98.7	78.3	68.1	57.9	54.5	54.5	54.5
47.5°	5354.8	4905.4	946.4	136.2	85.1	68.1	57.9	51.1	47.7	44.3	44.3
50°	5885.8	5331.0	694.5	119.1	74.9	61.3	51.1	44.3	37.4	34.0	34.0
52.5°	6270.5	5586.3	507.2	102.1	64.7	51.1	40.9	34.0	27.2	23.8	23.8
55°	6553.1	5742.9	371.1	85.1	57.9	44.3	34.0	27.2	20.4	20.4	17.0
57.5°	6774.3	5817.8	279.1	74.9	51.1	37.4	27.2	20.4	17.0	13.6	13.6
60°	6944.5	5821.2	207.7	61.3	44.3	30.6	20.4	13.6	10.2	10.2	10.2
62°	7169.2	5865.4	170.2	51.1	40.9	27.2	17.0	10.2	6.8	3.4	3.4
62.5°	7233.9	5882.4	163.4	51.1	37.4	23.8	13.6	10.2	6.8	3.4	3.4
65°	7533.5	5913.1	126.0	40.9	30.6	20.4	10.2	6.8	0.0	0.0	0.0
67.5°	7805.8	5865.4	91.9	30.6	23.8	13.6	10.2	3.4	0.0	0.0	0.0
70°	7778.6	5538.6	64.7	20.4	17.0	10.2	6.8	0.0	0.0	0.0	0.0
72.5°	6410.1	4146.3	44.3	17.0	10.2	6.8	3.4	0.0	0.0	0.0	0.0
75°	3870.6	1814.4	30.6	10.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0
77.5°	1269.8	657.0	20.4	6.8	6.8	3.4	3.4	0.0	0.0	0.0	0.0
80°	207.7	108.9	10.2	6.8	6.8	3.4	3.4	0.0	0.0	0.0	0.0
82.5°	64.7	27.2	6.8	6.8	3.4	3.4	0.0	0.0	0.0	0.0	0.0
85°	23.8	10.2	6.8	6.8	3.4	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	6.8	6.8	6.8	3.4	3.4	0.0	0.0	0.0	0.0	0.0
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)