

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: P258051

Luminaire Tested: **ARCH-L-AF72-150-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 13391.9 lumens
Efficiency: N/A
Efficacy: 87.5 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

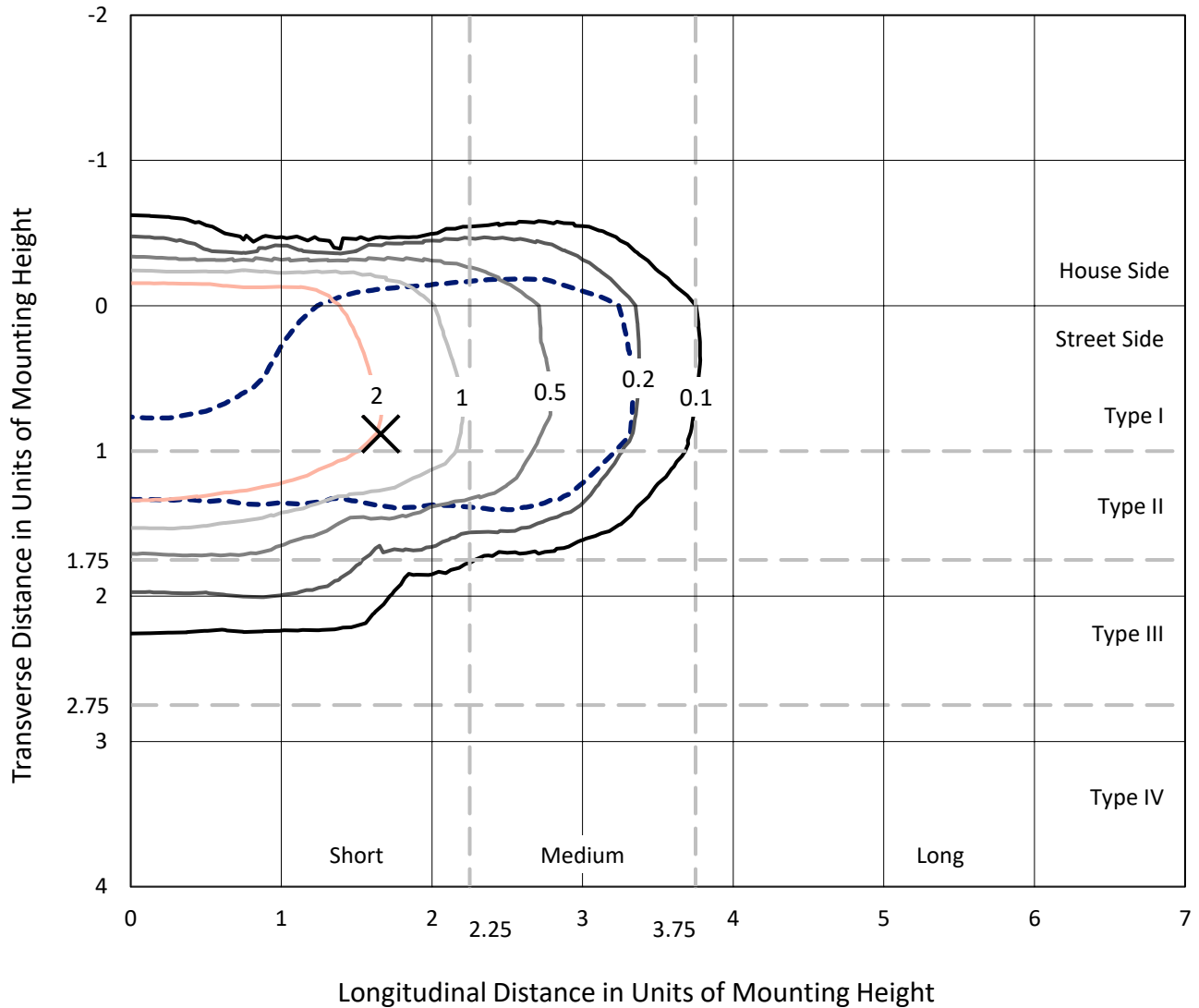
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P258051
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Iso-Footcandle Lines of Horizontal Illumination

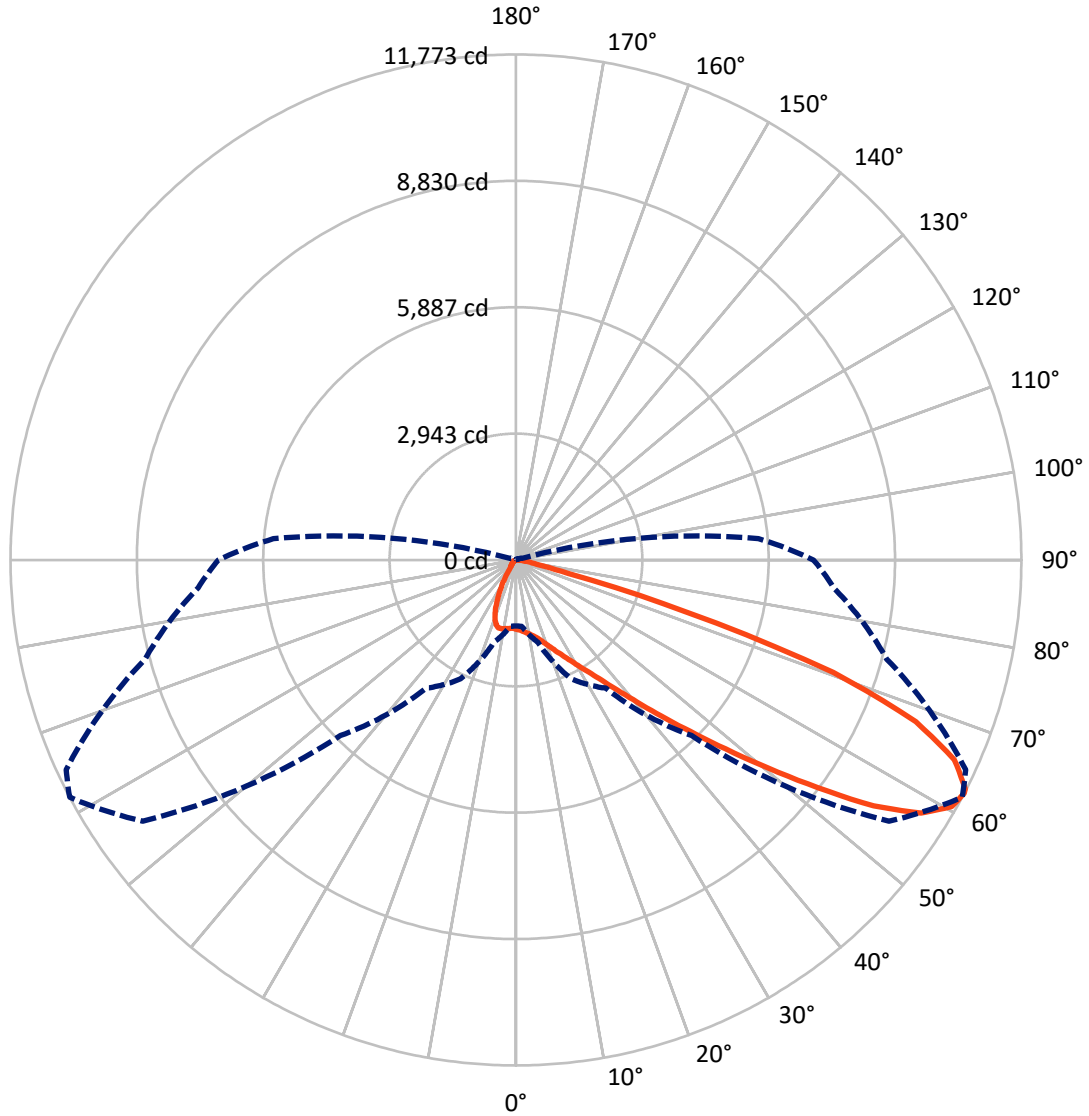
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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CATALOG NUMBER: ARCH-L-AF72-150-D-U-T2U-7030-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARCH-L-AF72-150-D-U-T2U-7030-HSS

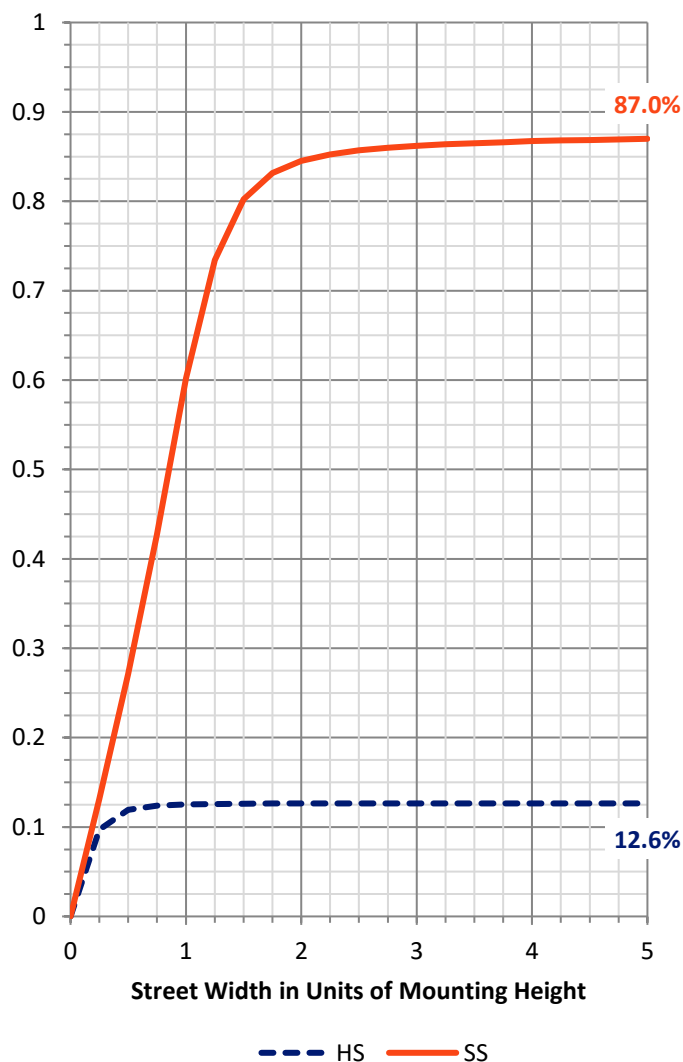
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1712.3	0.0	1712.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11679.6	0.0	11679.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	13391.9	0.0	13391.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	1.2
10°-20°	433.5	3.2
20°-30°	728.1	5.4
30°-40°	1395.7	10.4
40°-50°	2850.8	21.3
50°-60°	3772.6	28.2
60°-70°	2930.7	21.9
70°-80°	1057.8	7.9
80°-90°	67.4	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°	13391.9	100.0
0°-180°	13391.9	100.0

Coefficient of Utilization



REPORT NUMBER: P258051

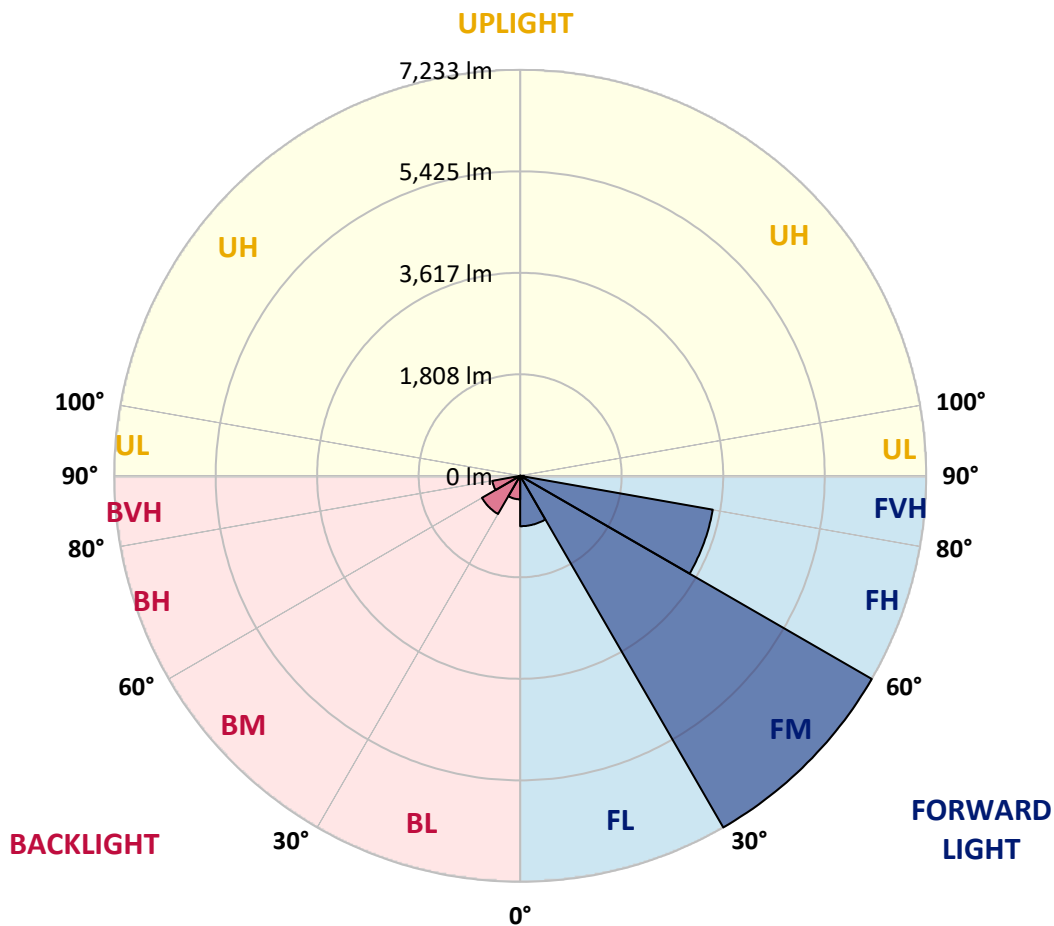
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.8	6.7			
FM (30°-60°)	7233.0	54.0			
FH (60°-80°)	3484.3	26.0			G2/5000
FVH (80°-90°)	64.5	0.5			G1/100
BL (0°-30°)	419.1	3.1	B1/500		
BM (30°-60°)	786.1	5.9	B1/1000		
BH (60°-80°)	504.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	2.9	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: P258051

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1656.1	1652.8	1649.5	1646.1	1646.1	1642.8	1639.6	1633.0	1626.5	1619.8	1616.5
5°	1685.7	1682.4	1679.1	1682.4	1679.1	1679.1	1675.8	1669.2	1662.6	1652.8	1642.8
7.5°	1708.7	1705.4	1702.2	1705.4	1708.7	1712.0	1715.3	1708.7	1705.4	1692.2	1682.4
10°	1738.4	1735.0	1731.8	1738.4	1738.4	1754.8	1758.1	1754.8	1751.5	1741.6	1725.2
12.5°	1781.2	1784.4	1784.4	1791.0	1797.7	1817.3	1824.0	1814.0	1814.0	1800.9	1781.2
15°	1860.1	1860.1	1860.1	1866.7	1870.1	1896.4	1903.0	1893.0	1899.7	1876.6	1856.9
17.5°	1935.8	1939.2	1945.8	1958.9	1958.9	1982.0	1995.2	1995.2	2008.3	1978.6	1952.4
20°	2011.6	2014.8	2024.8	2054.4	2054.4	2084.0	2107.1	2116.9	2130.1	2100.5	2054.4
22.5°	2094.0	2094.0	2110.4	2156.4	2146.6	2205.8	2248.7	2265.1	2278.3	2238.7	2166.3
25°	2219.0	2205.8	2219.0	2261.7	2255.2	2337.5	2416.6	2432.9	2449.5	2403.3	2294.8
27.5°	2456.0	2436.3	2390.3	2393.6	2393.6	2489.0	2600.9	2624.0	2633.8	2594.4	2459.3
30°	2930.2	2930.2	2758.9	2643.7	2568.0	2653.6	2811.7	2851.1	2864.3	2805.0	2627.2
32.5°	3756.6	3756.6	3440.5	3147.4	2861.1	2861.1	3042.1	3114.6	3127.6	3058.6	2851.1
35°	4810.0	4803.5	4329.4	3927.8	3368.0	3157.4	3312.0	3433.9	3473.4	3381.2	3140.8
37.5°	5929.4	5886.7	5376.3	4915.5	4148.3	3631.4	3677.5	3838.9	3875.1	3799.3	3516.2
40°	6838.1	6788.8	6377.3	5992.0	5155.7	4388.6	4204.3	4352.5	4395.3	4289.8	3963.9
42.5°	7661.2	7539.3	7256.2	6979.7	6314.6	5699.0	4905.5	4964.8	5010.8	4898.9	4467.6
45°	8257.0	8069.5	7924.6	7839.1	7486.7	7137.7	5814.2	5695.6	5712.2	5573.9	5017.5
47.5°	8273.5	8141.9	8155.0	8378.9	8523.8	8510.6	6996.2	6574.7	6512.2	6281.8	5603.5
50°	7483.3	7559.1	7799.5	8438.2	9221.7	9695.8	8401.9	7615.2	7427.5	7012.6	6186.3
52.5°	6166.5	6285.0	6736.1	7812.7	9323.8	10476.1	9860.4	8803.7	8467.8	7736.8	6634.0
55°	4829.8	4836.4	5310.4	6406.9	8642.3	10617.7	11025.9	10110.7	9597.2	8286.8	6930.4
57.5°	3321.9	3503.0	4105.5	4843.0	7104.8	9913.1	11463.8	11124.7	10463.0	8625.8	7137.7
60°	2176.2	2186.1	2887.4	3740.1	4836.4	8066.2	11197.1	11661.4	11164.2	8826.6	7279.3
62°	1534.2	1550.7	1985.2	3055.2	3644.6	5781.2	10607.8	11773.2	11559.3	8945.2	7427.5
62.5°	1422.2	1435.4	1800.9	2884.0	3423.9	5185.3	10397.1	11746.9	11618.5	8984.7	7480.1
65°	1043.7	1043.7	1178.7	1982.0	2508.7	2801.7	8810.2	11223.4	11539.5	9300.8	7677.6
67.5°	806.7	813.2	859.4	1221.4	1893.0	1698.9	5623.2	10044.9	10716.4	9768.4	7789.6
70°	694.7	691.4	724.3	809.9	1366.3	1129.3	2475.9	7839.1	8974.8	9649.8	7687.5
72.5°	513.6	516.9	592.6	711.2	951.4	734.2	1119.4	4161.4	5820.8	7552.5	6587.9
75°	329.2	332.4	418.1	559.7	684.8	480.6	645.2	1241.1	2383.6	4187.8	4029.8
77.5°	220.6	227.2	273.2	391.8	599.2	299.6	405.0	520.2	717.8	1570.4	1445.3
80°	148.1	148.1	174.5	263.5	378.6	250.2	217.3	345.7	372.0	487.3	243.6
82.5°	98.8	98.8	115.3	174.5	246.9	223.9	131.6	187.7	217.3	243.6	85.5
85°	59.2	59.2	79.0	108.6	161.3	125.1	85.5	105.3	112.0	154.7	46.1
87.5°	36.2	32.9	52.7	75.7	85.5	75.7	55.9	55.9	59.2	85.5	23.1
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: P258051

CATALOG NUMBER: ARCH-L-AF72-150-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1609.9	1606.6	1603.4	1596.8	1586.9	1580.3	1573.8	1567.1	1560.5	1560.5	1570.4
5°	1639.6	1629.7	1616.5	1603.4	1583.6	1570.4	1560.5	1547.3	1540.8	1540.8	1544.1
7.5°	1675.8	1665.8	1642.8	1619.8	1590.2	1567.1	1544.1	1514.5	1491.4	1481.5	1491.4
10°	1715.3	1702.2	1669.2	1633.0	1600.1	1540.8	1465.0	1372.9	1293.8	1257.7	1274.1
12.5°	1764.6	1748.2	1708.7	1659.3	1583.6	1438.7	1251.1	1037.1	902.1	839.5	852.7
15°	1837.0	1814.0	1758.1	1682.4	1514.5	1201.8	895.5	648.6	523.5	470.8	477.4
17.5°	1922.8	1893.0	1817.3	1675.8	1336.7	865.9	533.4	378.6	325.9	312.8	312.8
20°	2014.8	1975.4	1876.6	1626.5	1066.7	543.2	332.4	289.7	270.0	260.1	260.1
22.5°	2110.4	2057.7	1926.0	1511.2	760.6	339.1	273.2	243.6	220.6	210.8	210.8
25°	2225.6	2156.4	1975.4	1310.3	484.0	273.2	233.7	204.1	181.1	167.9	171.2
27.5°	2360.5	2271.7	2018.2	1060.2	312.8	237.1	194.3	164.7	144.9	138.3	138.3
30°	2502.1	2396.8	2028.1	793.4	253.5	204.1	161.3	134.9	121.9	115.3	115.3
32.5°	2696.4	2558.1	1998.5	526.7	214.0	171.2	134.9	112.0	102.0	98.8	98.8
35°	2953.2	2768.8	1929.3	325.9	181.1	141.6	112.0	98.8	88.9	85.5	85.5
37.5°	3279.1	3061.9	1807.4	223.9	154.7	115.3	95.5	85.5	79.0	75.7	75.7
40°	3713.7	3417.4	1649.5	194.3	131.6	98.8	82.3	75.7	69.2	69.2	69.2
42.5°	4174.7	3848.6	1445.3	171.2	112.0	85.5	72.4	65.9	62.6	59.2	59.2
45°	4678.4	4289.8	1191.8	151.5	95.5	75.7	65.9	55.9	52.7	52.7	52.7
47.5°	5178.8	4744.2	915.3	131.6	82.3	65.9	55.9	49.3	46.1	42.8	42.8
50°	5692.4	5155.7	671.6	115.3	72.4	59.2	49.3	42.8	36.2	32.9	32.9
52.5°	6064.4	5402.7	490.6	98.8	62.6	49.3	39.6	32.9	26.3	23.1	23.1
55°	6337.7	5554.0	358.8	82.3	55.9	42.8	32.9	26.3	19.7	19.7	16.5
57.5°	6551.7	5626.6	270.0	72.4	49.3	36.2	26.3	19.7	16.5	13.2	13.2
60°	6716.2	5629.8	200.8	59.2	42.8	29.6	19.7	13.2	9.9	9.9	9.9
62°	6933.6	5672.6	164.7	49.3	39.6	26.3	16.5	9.9	6.5	3.3	3.3
62.5°	6996.2	5689.1	158.0	49.3	36.2	23.1	13.2	9.9	6.5	3.3	3.3
65°	7285.9	5718.7	121.9	39.6	29.6	19.7	9.9	6.5	0.0	0.0	0.0
67.5°	7549.3	5672.6	88.9	29.6	23.1	13.2	9.9	3.3	0.0	0.0	0.0
70°	7522.9	5356.6	62.6	19.7	16.5	9.9	6.5	0.0	0.0	0.0	0.0
72.5°	6199.4	4010.1	42.8	16.5	9.9	6.5	3.3	0.0	0.0	0.0	0.0
75°	3743.3	1754.8	29.6	9.9	9.9	6.5	3.3	0.0	0.0	0.0	0.0
77.5°	1228.1	635.5	19.7	6.5	6.5	3.3	3.3	0.0	0.0	0.0	0.0
80°	200.8	105.3	9.9	6.5	6.5	3.3	3.3	0.0	0.0	0.0	0.0
82.5°	62.6	26.3	6.5	6.5	3.3	3.3	0.0	0.0	0.0	0.0	0.0
85°	23.1	9.9	6.5	6.5	3.3	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	6.5	6.5	6.5	3.3	3.3	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)