

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: P237188

Luminaire Tested: **ARCH-L-AF72-150-D-U-T3-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T3-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14152.3 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

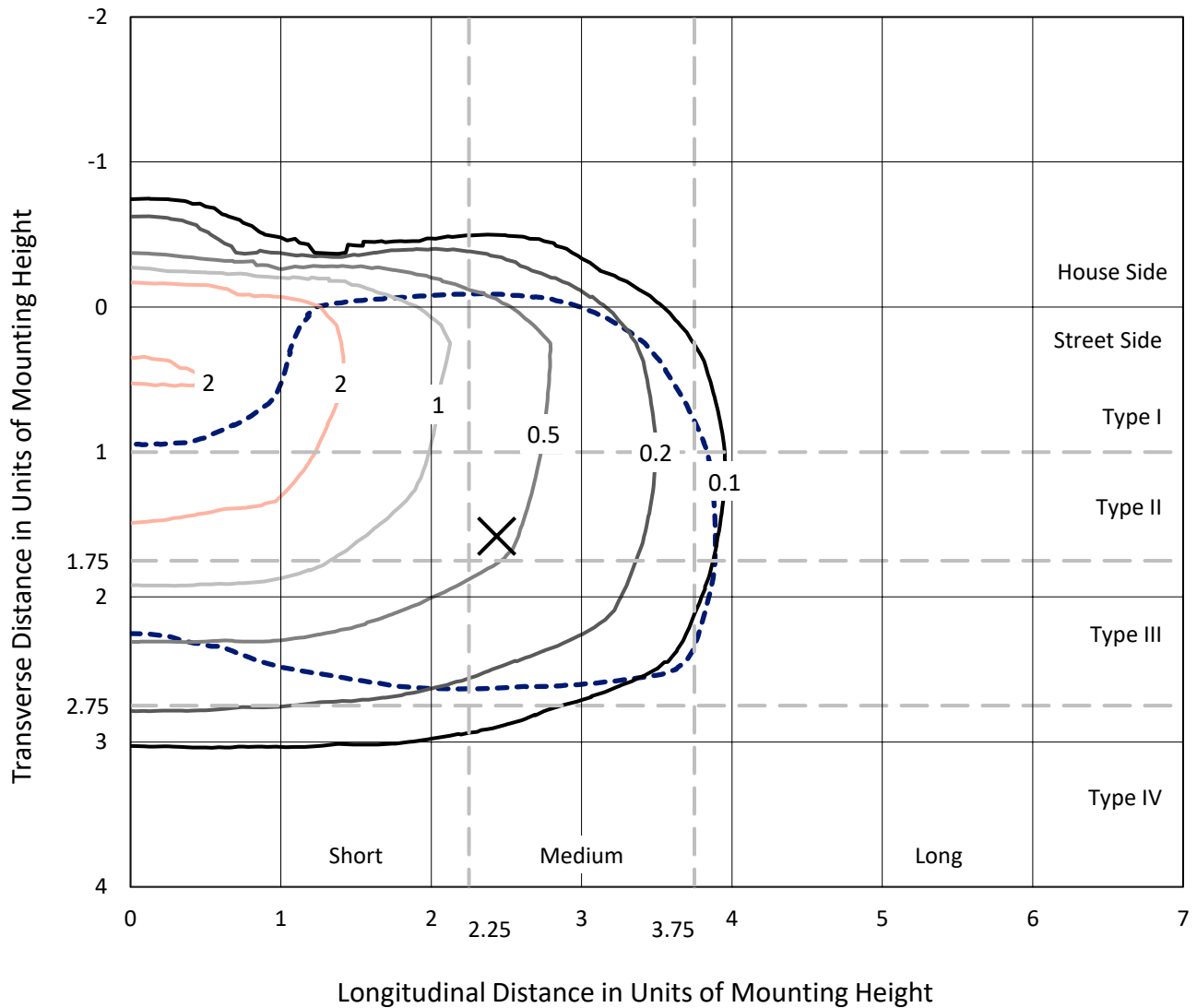
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

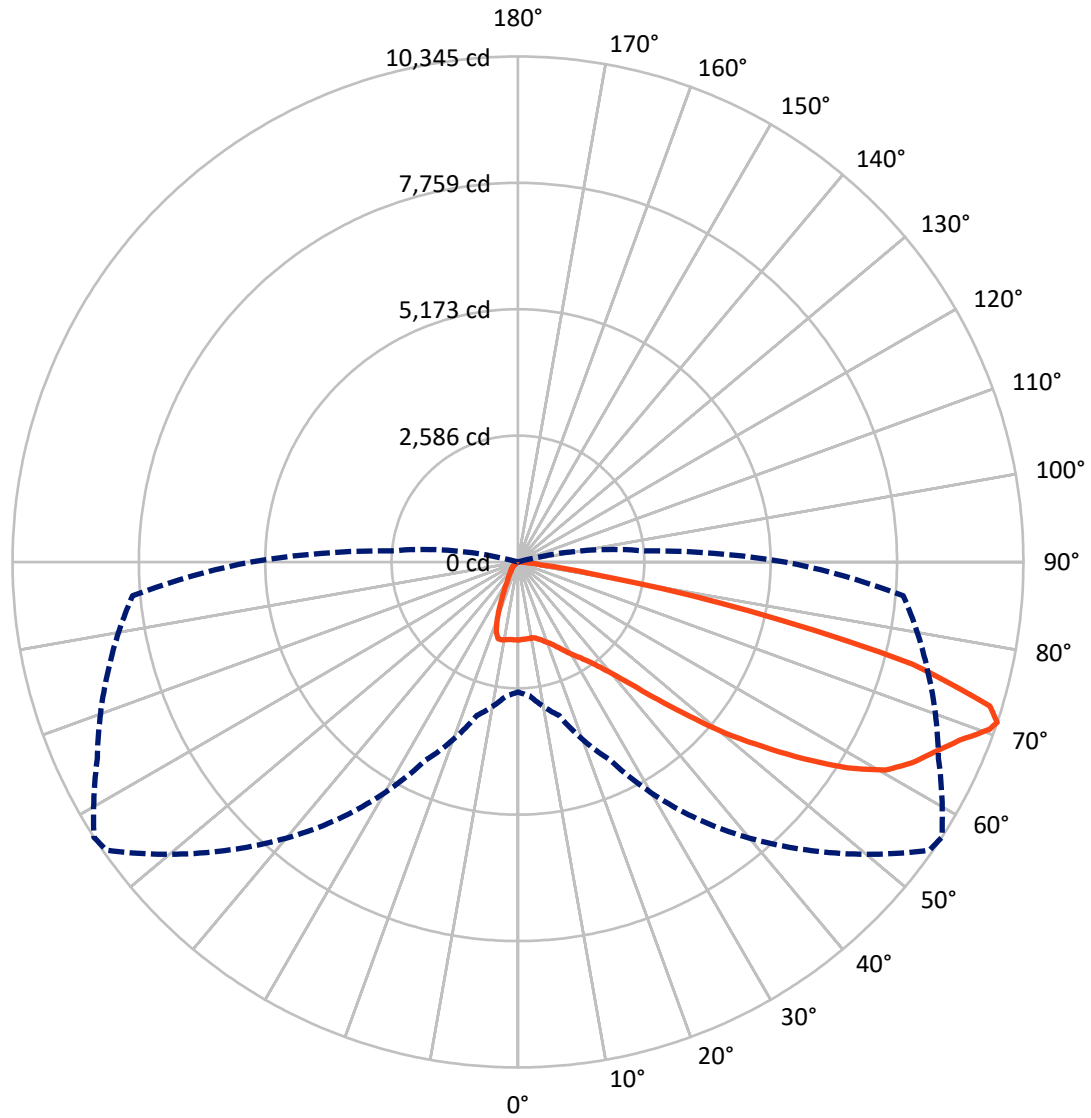
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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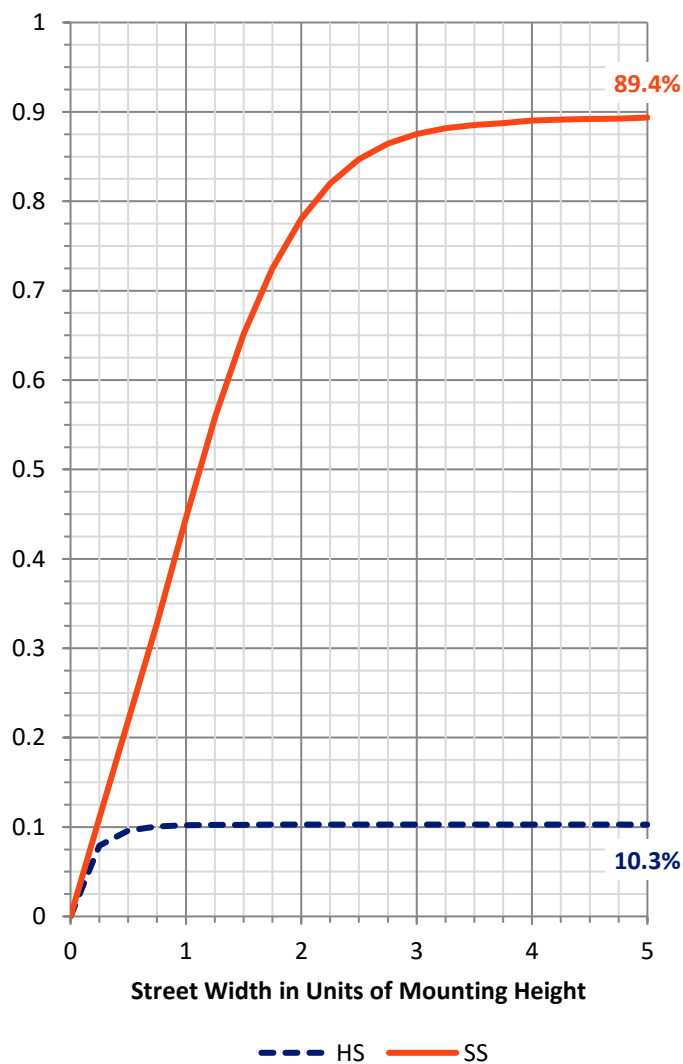
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.6	0.0	1466.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12685.7	0.0	12685.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	14152.3	0.0	14152.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	1.1
10°-20°	401.6	2.8
20°-30°	626.5	4.4
30°-40°	1058.9	7.5
40°-50°	2056.7	14.5
50°-60°	3453.9	24.4
60°-70°	4121.9	29.1
70°-80°	2172.3	15.3
80°-90°	110.4	0.8
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°	14152.3	100.0
0°-180°	14152.3	100.0

Coefficient of Utilization



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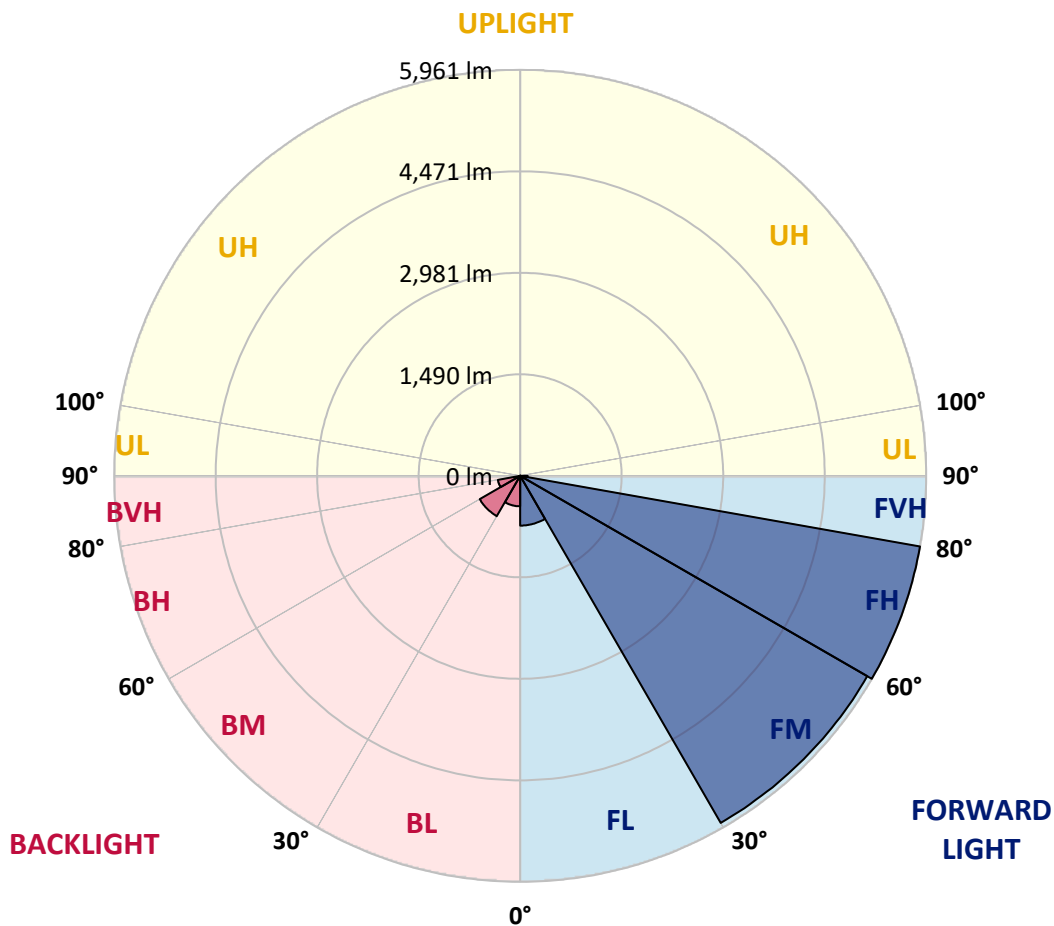
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.7	5.2			
FM (30°-60°)	5884.7	41.6			
FH (60°-80°)	5961.1	42.1			G3/7500
FVH (80°-90°)	109.3	0.8			G2/225
BL (0°-30°)	447.7	3.2	B1/500		
BM (30°-60°)	684.8	4.8	B1/1000		
BH (60°-80°)	333.1	2.4	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4
2.5°	1576.4	1576.4	1576.4	1579.7	1582.9	1582.9	1589.5	1586.2	1586.2	1586.2	1592.8
5°	1533.5	1536.7	1540.1	1546.7	1559.9	1569.7	1586.2	1586.2	1589.5	1596.2	1599.4
7.5°	1474.1	1477.4	1487.3	1500.4	1526.9	1550.0	1576.4	1582.9	1592.8	1609.3	1616.0
10°	1437.9	1444.4	1457.6	1474.1	1503.9	1533.5	1566.4	1576.4	1606.0	1635.7	1652.2
12.5°	1427.9	1431.3	1444.4	1470.8	1507.1	1543.4	1586.2	1596.2	1639.0	1685.3	1711.5
15°	1444.4	1447.6	1454.4	1484.0	1526.9	1573.0	1629.2	1642.2	1695.0	1747.8	1780.8
17.5°	1474.1	1474.1	1480.7	1507.1	1553.2	1606.0	1678.5	1698.3	1757.8	1817.1	1853.4
20°	1493.9	1493.9	1503.9	1530.1	1582.9	1652.2	1738.0	1764.3	1830.3	1896.2	1929.2
22.5°	1513.7	1516.9	1526.9	1556.5	1616.0	1711.5	1810.5	1836.8	1912.7	1982.0	2015.0
25°	1569.7	1566.4	1569.7	1596.2	1665.4	1784.1	1909.5	1942.4	2021.6	2097.4	2113.8
27.5°	1724.7	1718.1	1675.3	1658.8	1711.5	1859.9	2034.7	2067.7	2160.0	2235.9	2235.9
30°	2081.0	2067.7	1962.2	1827.0	1784.1	1929.2	2153.5	2199.6	2318.4	2384.2	2364.5
32.5°	2532.7	2503.0	2367.8	2137.0	1965.5	2021.6	2278.8	2331.6	2483.3	2539.3	2496.5
35°	3027.3	3024.1	2855.9	2559.1	2315.1	2212.8	2440.5	2503.0	2694.4	2743.7	2674.5
37.5°	3551.7	3564.9	3452.8	3043.9	2756.9	2526.1	2654.7	2727.3	2961.5	3020.8	2954.8
40°	4135.5	4132.1	4089.2	3604.5	3287.9	2971.3	2964.8	3030.7	3314.3	3406.6	3314.3
42.5°	4874.2	4867.5	4712.6	4277.3	3930.9	3551.7	3416.5	3439.6	3756.3	3907.8	3772.7
45°	5626.1	5579.9	5401.8	5025.8	4719.1	4270.6	4013.4	4013.4	4283.8	4491.6	4280.6
47.5°	6044.9	5998.7	5926.1	5718.4	5626.1	5124.8	4745.5	4699.3	4910.4	5121.5	4824.7
50°	6595.6	6595.6	6414.2	6335.1	6493.4	6140.5	5553.5	5507.3	5609.6	5777.7	5388.5
52.5°	7031.0	6951.7	6823.1	6892.4	7344.2	7182.6	6361.4	6272.3	6351.6	6394.4	5880.0
55°	7212.3	7136.4	7126.6	7380.5	8079.6	7855.3	7189.2	7110.0	7103.5	6892.4	6308.6
57.5°	7248.6	7182.6	7308.0	7753.1	8795.3	8406.1	8013.6	7954.3	7769.7	7241.9	6747.3
60°	6941.9	6974.8	7278.2	7957.6	9217.3	8884.3	8709.5	8646.8	8221.4	7538.8	7235.3
62.5°	6312.0	6391.1	6958.4	7977.3	9062.3	9078.8	9095.3	9052.4	8571.0	7809.2	7726.7
65°	5566.6	5589.8	6272.3	7703.7	8791.9	9019.5	9379.0	9375.6	8838.1	8112.6	8280.8
67.5°	4587.2	4626.8	5217.1	6780.3	8251.0	8993.1	9751.6	9741.7	9141.5	8458.9	8610.5
70°	3413.3	3462.7	3940.9	5273.2	7044.1	8663.2	10239.7	10246.3	9461.5	8722.7	8383.0
71°	2661.3	2750.4	3251.7	4478.4	6427.4	8330.3	10285.7	10345.2	9497.7	8686.4	7914.7
72.5°	1305.9	1411.4	2041.3	3152.6	5289.7	7584.9	9982.5	10097.8	9270.1	8234.6	6767.1
75°	339.7	359.5	610.1	1289.5	2836.2	5025.8	8049.9	8343.5	7578.3	6269.1	4135.5
77.5°	214.3	220.9	287.0	501.3	1061.9	1909.5	4729.1	4874.2	4330.1	3175.7	1457.6
80°	151.7	155.0	181.4	323.2	619.9	557.3	1701.7	1764.3	1566.4	841.0	260.5
82.5°	92.4	92.4	131.8	207.8	382.5	303.4	448.5	478.2	422.1	234.2	85.8
85°	52.8	56.0	82.5	141.8	181.4	148.4	168.2	178.1	181.4	155.0	36.3
87.5°	42.8	46.2	72.5	118.8	98.9	72.5	72.5	75.8	79.1	92.4	16.5
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°	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4	1599.4
2.5°	1592.8	1592.8	1596.2	1592.8	1592.8	1592.8	1596.2	1596.2	1596.2	1602.8	1606.0
5°	1599.4	1599.4	1599.4	1596.2	1592.8	1592.8	1599.4	1602.8	1602.8	1612.6	1612.6
7.5°	1616.0	1616.0	1609.3	1602.8	1596.2	1586.2	1589.5	1592.8	1589.5	1592.8	1592.8
10°	1652.2	1652.2	1642.2	1629.2	1609.3	1579.7	1540.1	1490.7	1444.4	1427.9	1421.4
12.5°	1711.5	1708.3	1688.5	1665.4	1622.5	1520.3	1371.9	1197.2	1051.9	1012.4	999.2
15°	1777.5	1770.9	1747.8	1708.3	1592.8	1322.4	1012.4	788.2	649.6	616.7	610.1
17.5°	1846.8	1836.8	1803.9	1724.7	1457.6	982.8	653.0	494.6	418.8	412.2	415.5
20°	1919.3	1906.1	1859.9	1691.8	1177.3	656.2	422.1	382.5	376.0	376.0	379.2
22.5°	2001.7	1985.2	1922.6	1573.0	857.4	435.3	362.7	359.5	356.1	352.9	352.9
25°	2097.4	2077.6	1982.0	1358.6	590.3	356.1	346.3	336.4	329.8	323.2	319.9
27.5°	2212.8	2186.4	2028.2	1094.9	405.7	333.1	326.4	310.0	296.7	283.6	283.6
30°	2328.2	2295.3	2015.0	824.5	329.8	310.0	296.7	277.0	257.2	244.0	240.7
32.5°	2450.2	2417.3	1929.2	554.1	300.1	283.6	267.1	237.4	214.3	197.9	194.6
35°	2631.6	2605.3	1761.0	366.0	270.4	250.6	227.6	197.9	168.2	151.7	148.4
37.5°	2902.0	2869.0	1553.2	280.4	237.4	207.8	187.9	155.0	125.3	108.8	105.6
40°	3264.7	3165.9	1305.9	247.4	207.8	171.5	145.1	112.1	89.0	79.1	79.1
42.5°	3687.0	3452.8	1038.8	224.2	184.6	141.8	105.6	75.8	62.6	59.3	59.3
45°	4135.5	3720.0	771.7	207.8	161.6	112.1	75.8	52.8	46.2	42.8	42.8
47.5°	4597.1	3937.6	537.5	187.9	135.3	85.8	52.8	39.6	33.0	29.7	29.7
50°	5029.1	4079.4	379.2	168.2	115.4	62.6	39.6	29.7	23.1	23.1	23.1
52.5°	5329.2	4066.2	273.7	145.1	89.0	42.8	26.3	19.7	19.7	19.7	19.7
55°	5593.1	4016.7	214.3	125.3	69.3	29.7	19.7	16.5	16.5	13.2	13.2
57.5°	5817.3	3937.6	181.4	102.2	49.5	23.1	13.2	13.2	10.0	10.0	10.0
60°	6008.6	3838.6	151.7	85.8	33.0	16.5	10.0	6.5	6.5	3.3	6.5
62.5°	6269.1	3776.0	131.8	66.0	23.1	10.0	6.5	3.3	3.3	0.0	0.0
65°	6460.4	3657.2	112.1	46.2	13.2	6.5	3.3	3.3	0.0	0.0	0.0
67.5°	6466.9	3442.9	82.5	26.3	10.0	6.5	3.3	0.0	0.0	0.0	0.0
70°	5945.9	2935.0	52.8	13.2	6.5	3.3	3.3	0.0	0.0	0.0	0.0
71°	5467.8	2598.6	42.8	10.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0
72.5°	4504.8	1909.5	33.0	10.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0
75°	2483.3	692.4	16.5	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	794.8	211.1	10.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	135.3	33.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.2	13.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.3	0.0	0.0	0.0	0.0	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)