

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: P258096

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2U-7050-HSS**

Issue Date: 8/21/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P258096  
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-AF72-200-D-U-T2U-7050-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 860mA 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: 16873 lumens  
Efficiency: N/A  
Efficacy: 83.9 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

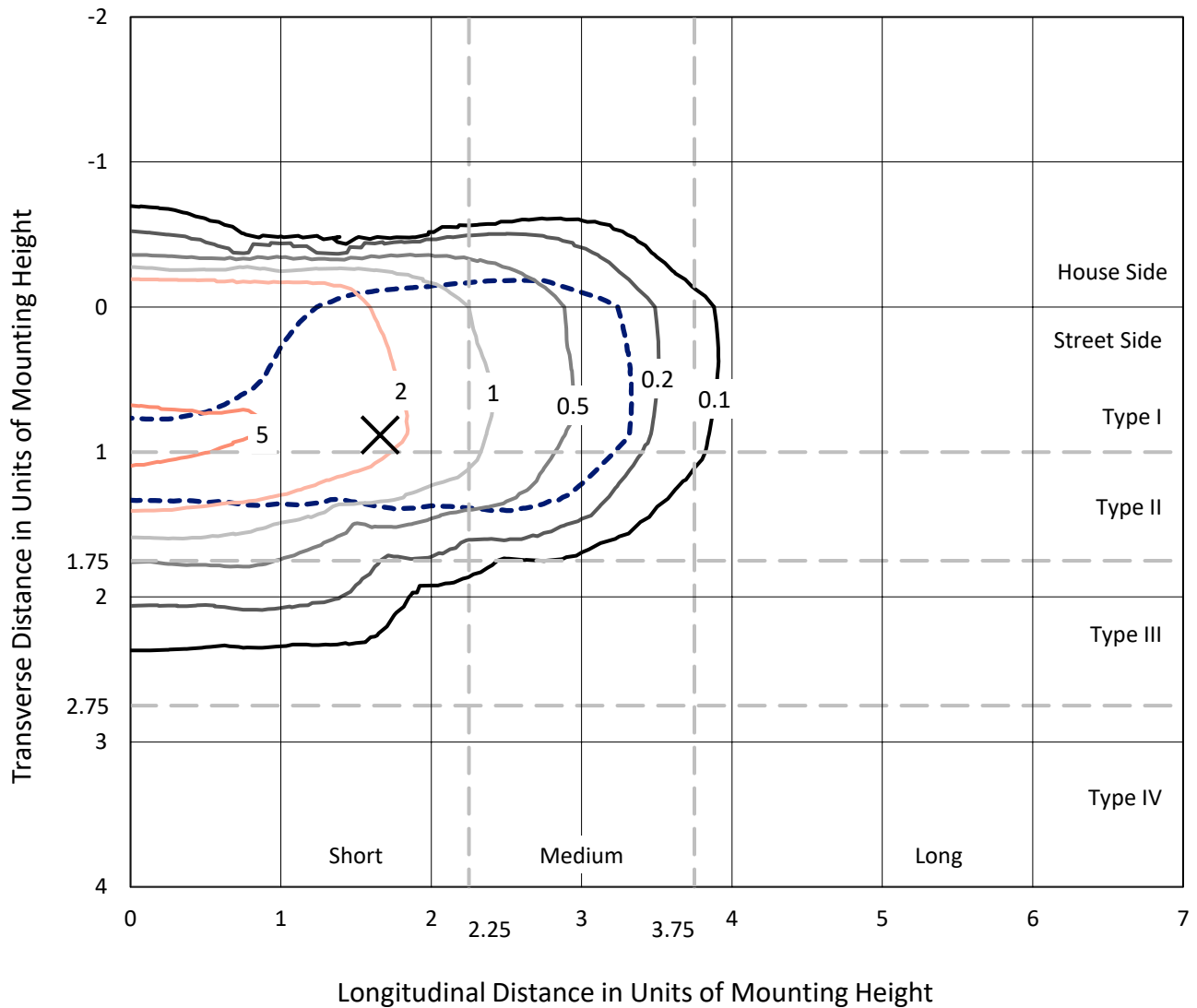
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

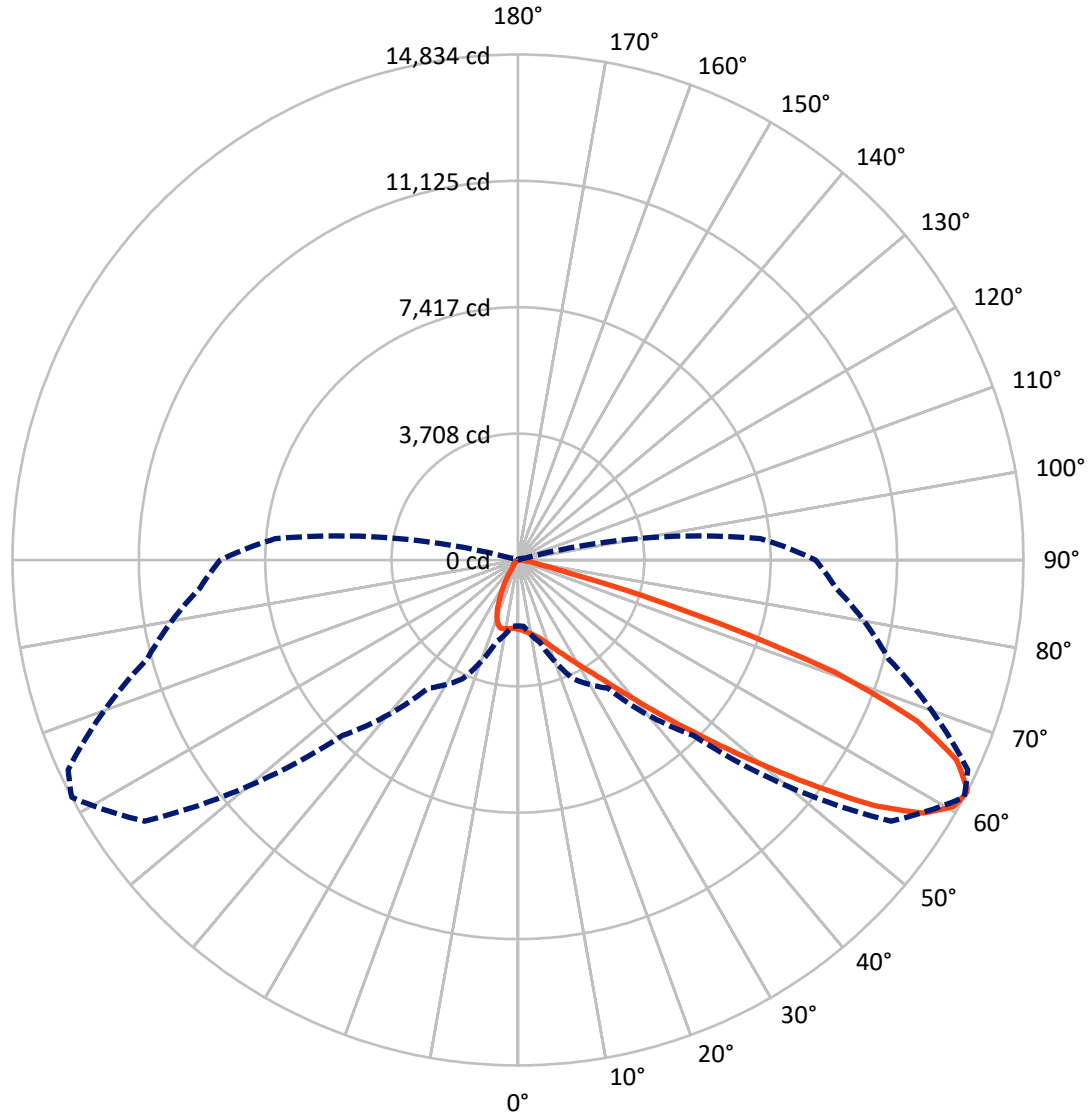
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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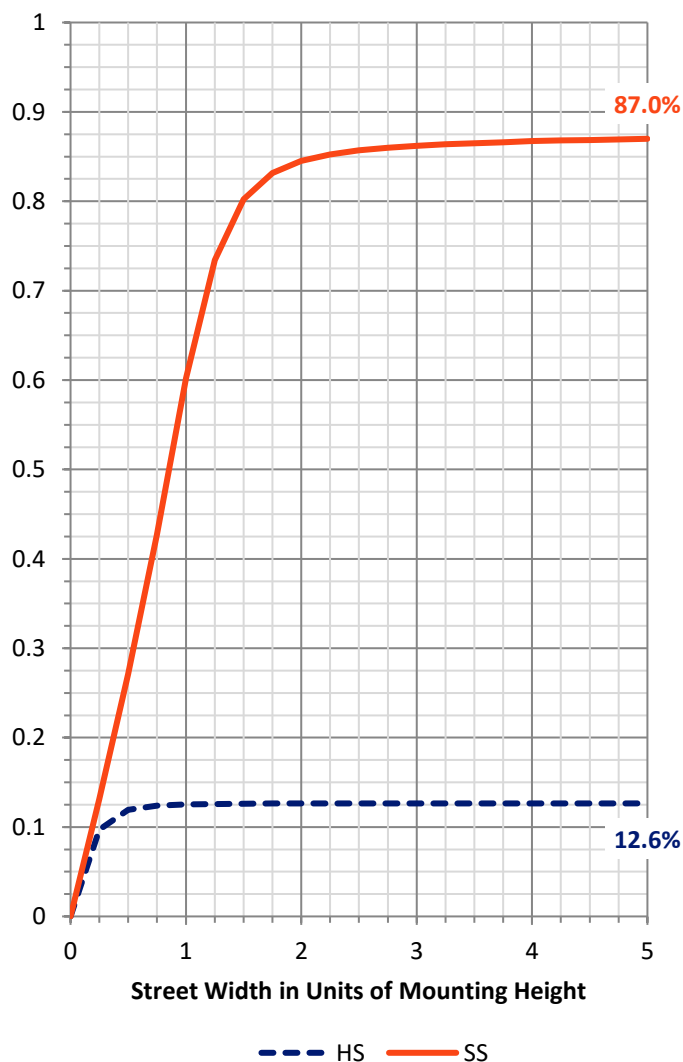
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2157.4	0.0	2157.4
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	14715.6	0.0	14715.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	16873.0	0.0	16873.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.6	1.2
10°-20°	546.2	3.2
20°-30°	917.4	5.4
30°-40°	1758.5	10.4
40°-50°	3591.8	21.3
50°-60°	4753.2	28.2
60°-70°	3692.5	21.9
70°-80°	1332.8	7.9
80°-90°	84.9	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°	16873.0	100.0
0°-180°	16873.0	100.0

**Coefficient of Utilization**



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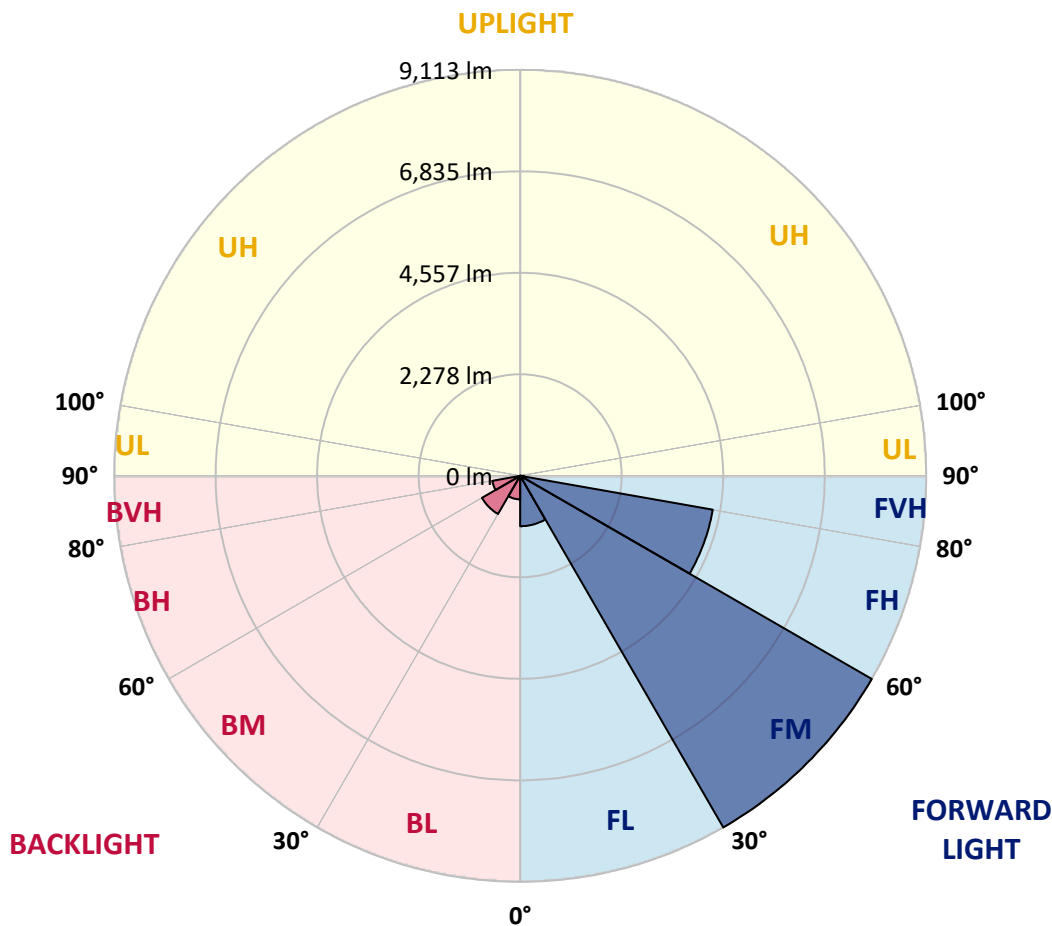
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.2	6.7			
FM (30°-60°)	9113.2	54.0			
FH (60°-80°)	4390.0	26.0			G2/5000
FVH (80°-90°)	81.2	0.5			G1/100
BL (0°-30°)	528.0	3.1	B2/1000		
BM (30°-60°)	990.4	5.9	B1/1000		
BH (60°-80°)	635.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6
2.5°	2086.5	2082.4	2078.2	2074.1	2074.1	2069.9	2065.8	2057.5	2049.2	2040.9	2036.7
5°	2123.8	2119.7	2115.5	2119.7	2115.5	2115.5	2111.4	2103.1	2094.8	2082.4	2069.9
7.5°	2152.9	2148.7	2144.6	2148.7	2152.9	2157.0	2161.2	2152.9	2148.7	2132.1	2119.7
10°	2190.2	2186.1	2181.9	2190.2	2190.2	2210.9	2215.1	2210.9	2206.8	2194.3	2173.6
12.5°	2244.1	2248.3	2248.3	2256.6	2264.9	2289.8	2298.1	2285.6	2285.6	2269.0	2244.1
15°	2343.7	2343.7	2343.7	2352.0	2356.1	2389.3	2397.6	2385.2	2393.5	2364.4	2339.5
17.5°	2439.1	2443.2	2451.5	2468.1	2468.1	2497.2	2513.8	2513.8	2530.3	2493.0	2459.8
20°	2534.5	2538.6	2551.1	2588.4	2588.4	2625.8	2654.8	2667.2	2683.8	2646.5	2588.4
22.5°	2638.2	2638.2	2658.9	2717.0	2704.6	2779.2	2833.2	2853.9	2870.5	2820.7	2729.5
25°	2795.8	2779.2	2795.8	2849.8	2841.5	2945.2	3044.7	3065.5	3086.2	3028.1	2891.2
27.5°	3094.5	3069.6	3011.5	3015.7	3015.7	3136.0	3277.0	3306.0	3318.5	3268.7	3098.6
30°	3691.8	3691.8	3476.1	3330.9	3235.5	3343.4	3542.5	3592.3	3608.9	3534.2	3310.2
32.5°	4733.0	4733.0	4334.8	3965.6	3604.7	3604.7	3832.9	3924.1	3940.7	3853.6	3592.3
35°	6060.4	6052.1	5454.8	4948.7	4243.5	3978.0	4173.0	4326.5	4376.3	4260.1	3957.3
37.5°	7470.7	7416.8	6773.9	6193.1	5226.6	4575.4	4633.4	4836.7	4882.3	4786.9	4430.2
40°	8615.6	8553.4	8034.9	7549.6	6495.9	5529.4	5297.1	5483.8	5537.7	5405.0	4994.3
42.5°	9652.6	9499.2	9142.4	8794.0	7956.1	7180.4	6180.7	6255.3	6313.4	6172.4	5629.0
45°	10403.5	10167.0	9984.5	9876.6	9432.8	8993.1	7325.6	7176.2	7197.0	7022.7	6321.7
47.5°	10424.2	10258.3	10274.9	10556.9	10739.5	10722.9	8814.7	8283.8	8205.0	7914.6	7060.1
50°	9428.6	9524.1	9826.9	10631.6	11618.8	12216.2	10586.0	9594.6	9358.1	8835.5	7794.3
52.5°	7769.4	7918.7	8487.0	9843.5	11747.4	13199.3	12423.6	11092.0	10668.9	9748.1	8358.4
55°	6085.3	6093.6	6690.9	8072.2	10888.8	13377.6	13892.0	12738.8	12091.7	10440.8	8731.8
57.5°	4185.4	4413.6	5172.7	6101.9	8951.6	12490.0	14443.7	14016.5	13182.7	10868.0	8993.1
60°	2741.9	2754.3	3637.9	4712.3	6093.6	10162.9	14107.7	14692.6	14066.2	11121.1	9171.5
62°	1933.0	1953.8	2501.3	3849.4	4592.0	7284.1	13365.2	14833.6	14564.0	11270.4	9358.1
62.5°	1792.0	1808.6	2269.0	3633.7	4314.0	6533.3	13099.7	14800.4	14638.7	11320.2	9424.5
65°	1315.0	1315.0	1485.0	2497.2	3160.9	3530.0	11100.3	14140.9	14539.1	11718.4	9673.4
67.5°	1016.3	1024.6	1082.7	1538.9	2385.2	2140.4	7085.0	12655.9	13502.1	12307.4	9814.4
70°	875.3	871.1	912.6	1020.4	1721.5	1422.8	3119.4	9876.6	11307.7	12158.1	9685.8
72.5°	647.1	651.3	746.7	896.0	1198.8	925.0	1410.4	5243.2	7333.9	9515.8	8300.4
75°	414.8	419.0	526.8	705.2	862.8	605.6	813.0	1563.8	3003.2	5276.4	5077.3
77.5°	277.9	286.2	344.3	493.6	755.0	377.5	510.2	655.4	904.3	1978.6	1821.0
80°	186.7	186.7	219.8	331.8	477.0	315.3	273.8	435.6	468.7	613.9	307.0
82.5°	124.4	124.4	145.2	219.8	311.1	282.1	165.9	236.4	273.8	307.0	107.9
85°	74.7	74.7	99.6	136.9	203.3	157.6	107.9	132.7	141.0	195.0	58.1
87.5°	45.6	41.5	66.4	95.4	107.9	95.4	70.5	70.5	74.7	107.9	29.0
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°	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6	2032.6
2.5°	2028.4	2024.3	2020.1	2011.8	1999.4	1991.1	1982.8	1974.5	1966.2	1966.2	1978.6
5°	2065.8	2053.3	2036.7	2020.1	1995.2	1978.6	1966.2	1949.6	1941.3	1941.3	1945.5
7.5°	2111.4	2098.9	2069.9	2040.9	2003.5	1974.5	1945.5	1908.1	1879.1	1866.6	1879.1
10°	2161.2	2144.6	2103.1	2057.5	2016.0	1941.3	1845.9	1729.8	1630.2	1584.6	1605.3
12.5°	2223.4	2202.6	2152.9	2090.6	1995.2	1812.7	1576.3	1306.7	1136.6	1057.8	1074.4
15°	2314.6	2285.6	2215.1	2119.7	1908.1	1514.1	1128.3	817.2	659.5	593.2	601.5
17.5°	2422.5	2385.2	2289.8	2111.4	1684.1	1091.0	672.0	477.0	410.7	394.1	394.1
20°	2538.6	2488.9	2364.4	2049.2	1344.0	684.4	419.0	365.0	340.1	327.7	327.7
22.5°	2658.9	2592.6	2426.6	1904.0	958.2	427.3	344.3	307.0	277.9	265.5	265.5
25°	2804.1	2717.0	2488.9	1650.9	609.8	344.3	294.5	257.2	228.1	211.6	215.7
27.5°	2974.2	2862.2	2542.8	1335.7	394.1	298.7	244.7	207.4	182.5	174.2	174.2
30°	3152.6	3019.8	2555.2	999.7	319.4	257.2	203.3	170.1	153.5	145.2	145.2
32.5°	3397.3	3223.1	2517.9	663.7	269.6	215.7	170.1	141.0	128.6	124.4	124.4
35°	3720.9	3488.6	2430.8	410.7	228.1	178.4	141.0	124.4	112.0	107.9	107.9
37.5°	4131.5	3857.7	2277.3	282.1	195.0	145.2	120.3	107.9	99.6	95.4	95.4
40°	4679.1	4305.7	2078.2	244.7	165.9	124.4	103.7	95.4	87.1	87.1	87.1
42.5°	5259.8	4849.1	1821.0	215.7	141.0	107.9	91.3	83.0	78.8	74.7	74.7
45°	5894.5	5405.0	1501.6	190.8	120.3	95.4	83.0	70.5	66.4	66.4	66.4
47.5°	6525.0	5977.4	1153.2	165.9	103.7	83.0	70.5	62.2	58.1	53.9	53.9
50°	7172.1	6495.9	846.2	145.2	91.3	74.7	62.2	53.9	45.6	41.5	41.5
52.5°	7640.8	6807.0	618.1	124.4	78.8	62.2	49.8	41.5	33.2	29.0	29.0
55°	7985.1	6997.9	452.1	103.7	70.5	53.9	41.5	33.2	24.9	24.9	20.7
57.5°	8254.7	7089.1	340.1	91.3	62.2	45.6	33.2	24.9	20.7	16.6	16.6
60°	8462.1	7093.3	253.0	74.7	53.9	37.3	24.9	16.6	12.4	12.4	12.4
62°	8735.9	7147.2	207.4	62.2	49.8	33.2	20.7	12.4	8.3	4.1	4.1
62.5°	8814.7	7167.9	199.1	62.2	45.6	29.0	16.6	12.4	8.3	4.1	4.1
65°	9179.8	7205.3	153.5	49.8	37.3	24.9	12.4	8.3	0.0	0.0	0.0
67.5°	9511.6	7147.2	112.0	37.3	29.0	16.6	12.4	4.1	0.0	0.0	0.0
70°	9478.4	6749.0	78.8	24.9	20.7	12.4	8.3	0.0	0.0	0.0	0.0
72.5°	7810.9	5052.4	53.9	20.7	12.4	8.3	4.1	0.0	0.0	0.0	0.0
75°	4716.4	2210.9	37.3	12.4	12.4	8.3	4.1	0.0	0.0	0.0	0.0
77.5°	1547.2	800.6	24.9	8.3	8.3	4.1	4.1	0.0	0.0	0.0	0.0
80°	253.0	132.7	12.4	8.3	8.3	4.1	4.1	0.0	0.0	0.0	0.0
82.5°	78.8	33.2	8.3	8.3	4.1	4.1	0.0	0.0	0.0	0.0	0.0
85°	29.0	12.4	8.3	8.3	4.1	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	8.3	8.3	8.3	4.1	4.1	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)