

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: P258095

Luminaire Tested: **ARCH-L-AF72-190-D-U-T2U-7050-HSS**

Issue Date: 8/21/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P258095  
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-AF72-190-D-U-T2U-7050-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 810mA 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: 16094 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

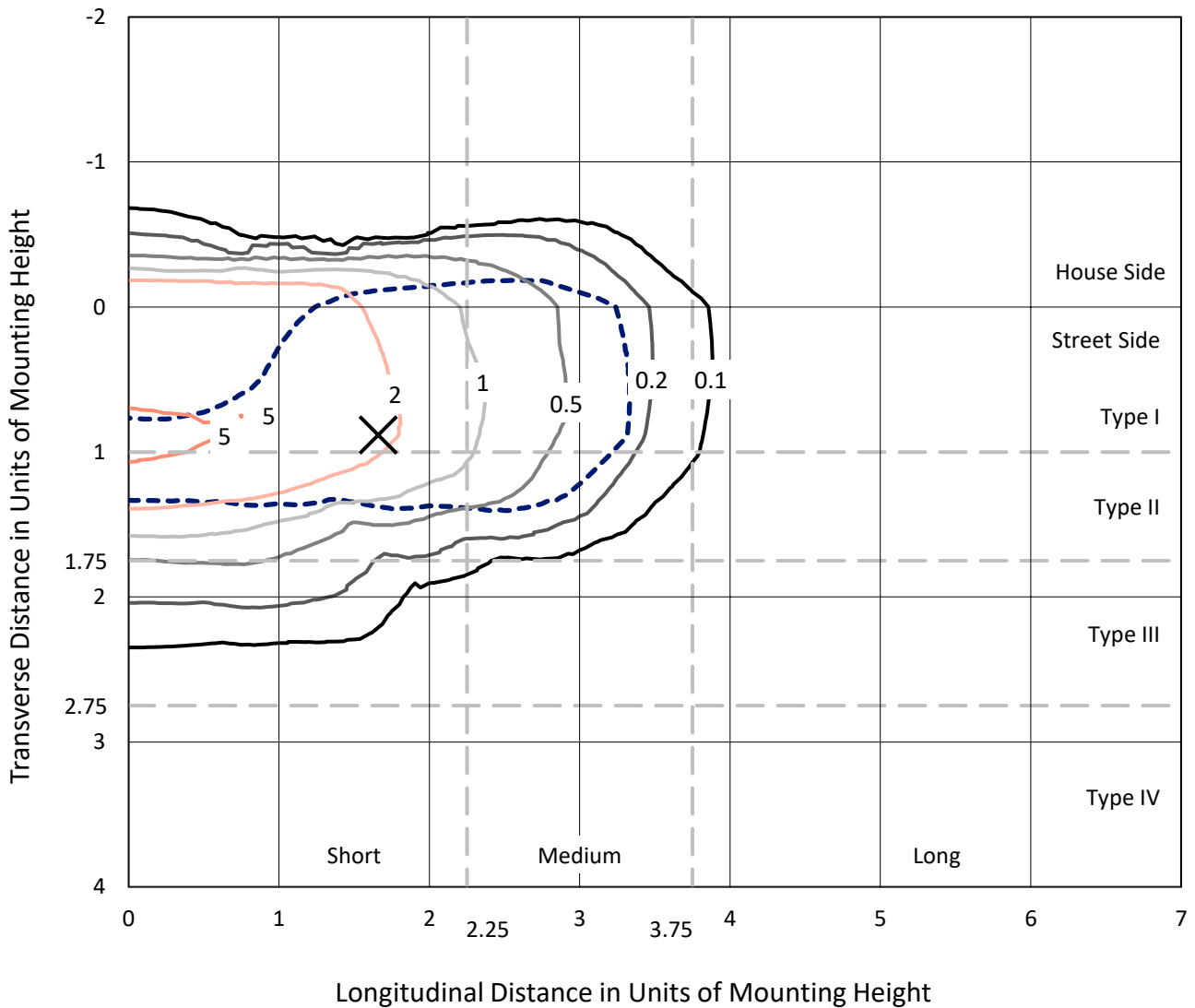
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

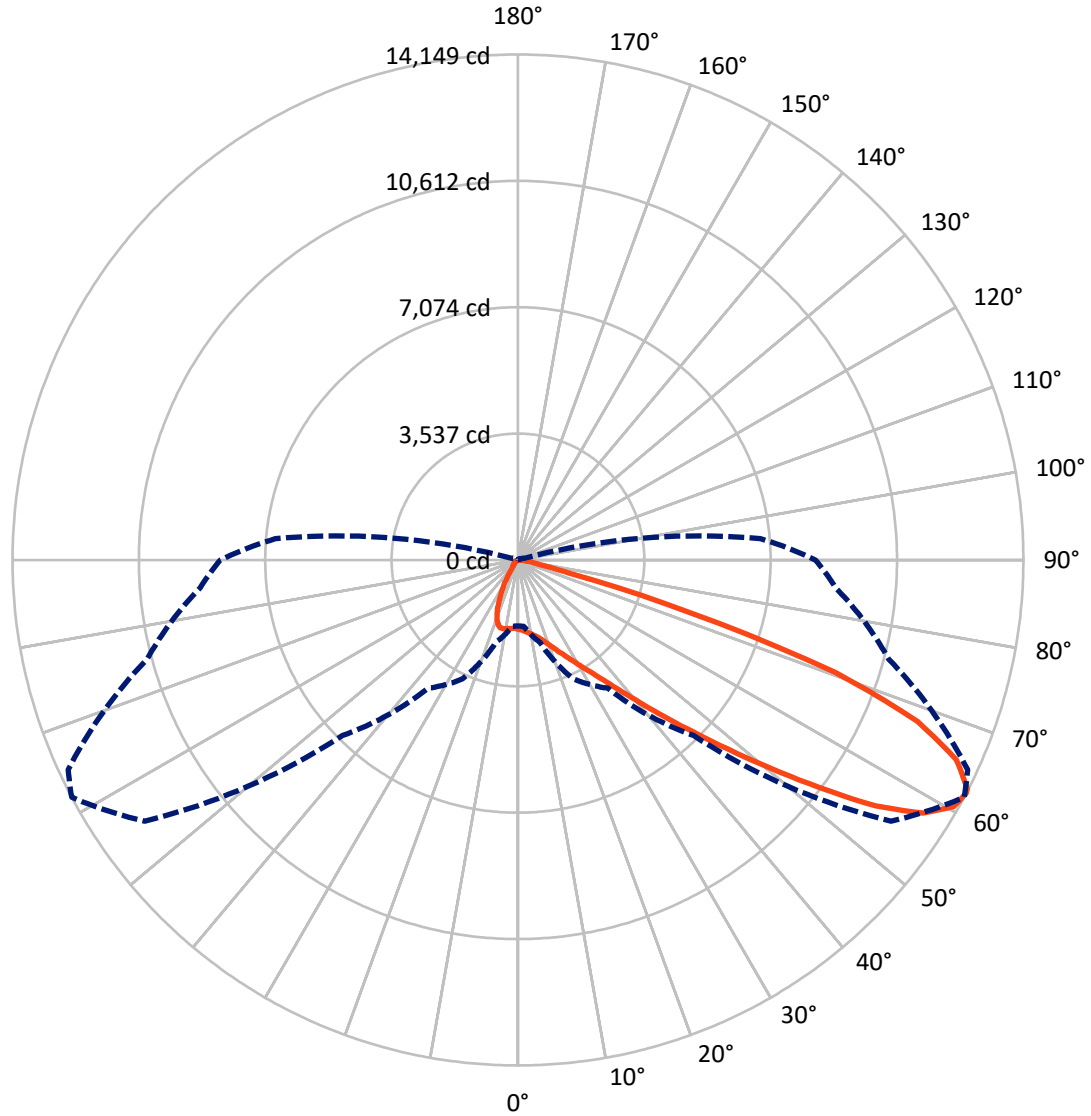
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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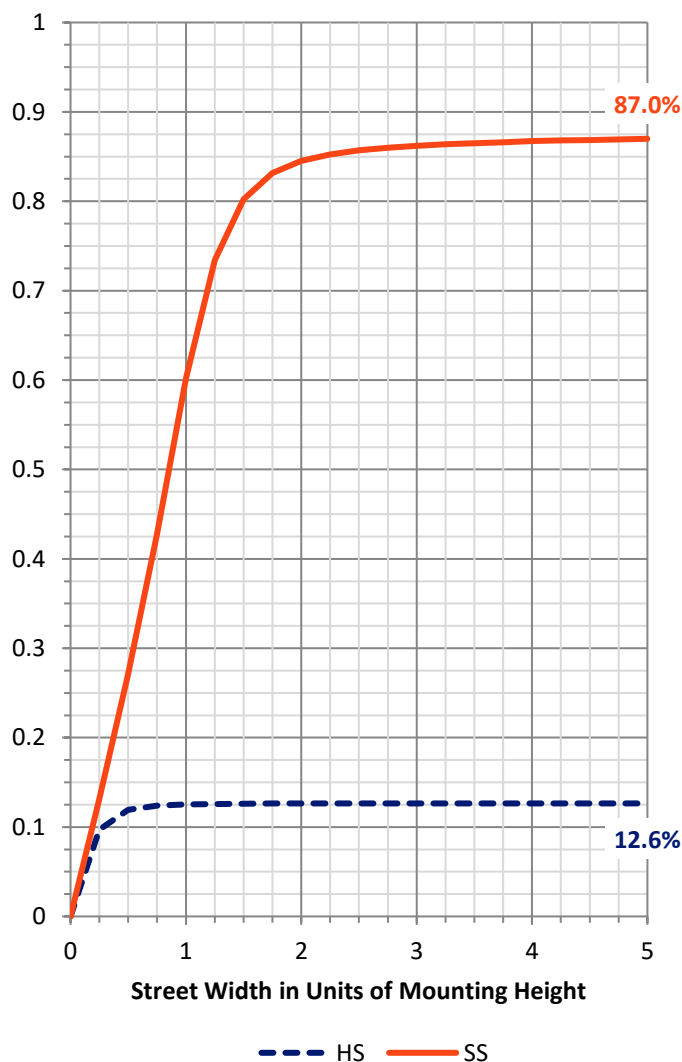
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2057.8	0.0	2057.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	14036.2	0.0	14036.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	16094.0	0.0	16094.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.6	1.2
10°-20°	521.0	3.2
20°-30°	875.0	5.4
30°-40°	1677.3	10.4
40°-50°	3426.0	21.3
50°-60°	4533.8	28.2
60°-70°	3522.0	21.9
70°-80°	1271.3	7.9
80°-90°	81.0	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°	16094.0	100.0
0°-180°	16094.0	100.0

**Coefficient of Utilization**



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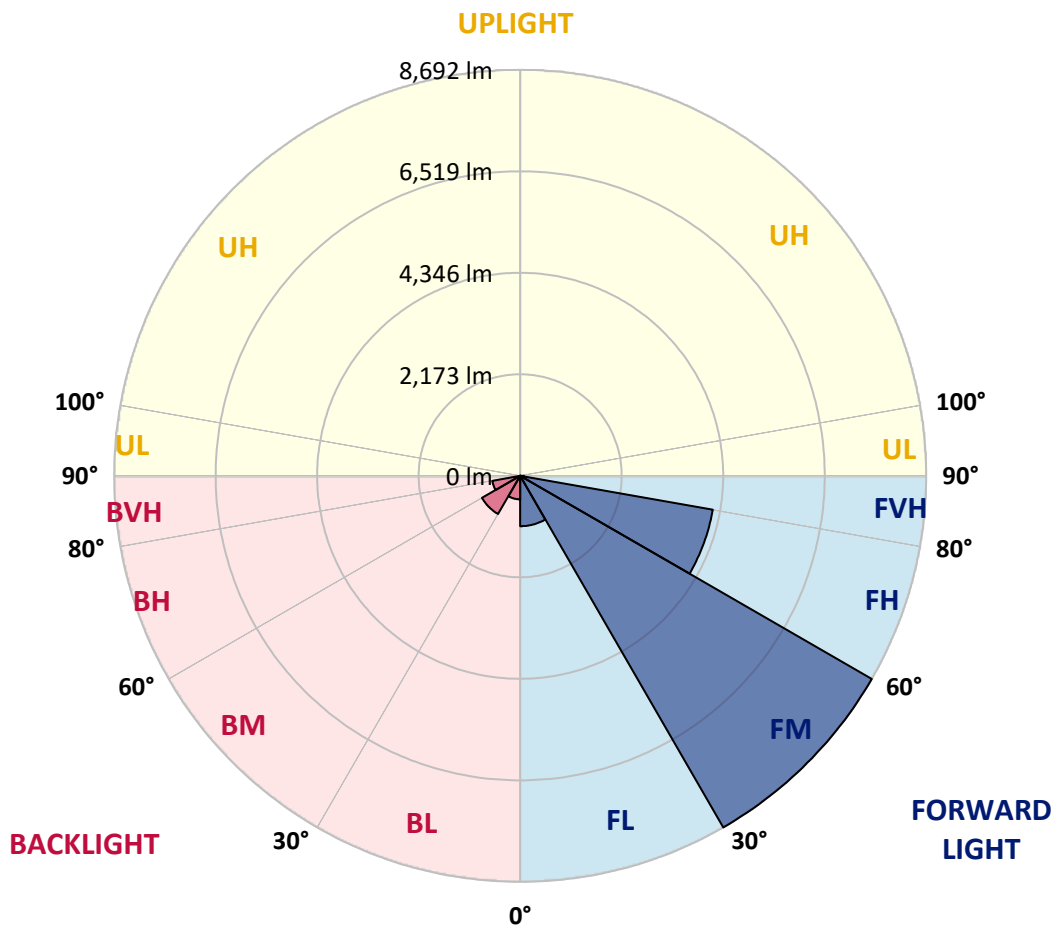
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.0	6.7			
FM (30°-60°)	8692.4	54.0			
FH (60°-80°)	4187.3	26.0			G2/5000
FVH (80°-90°)	77.5	0.5			G1/100
BL (0°-30°)	503.6	3.1	B2/1000		
BM (30°-60°)	944.7	5.9	B1/1000		
BH (60°-80°)	606.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.5	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°	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7
2.5°	1990.2	1986.2	1982.3	1978.3	1978.3	1974.3	1970.4	1962.5	1954.6	1946.6	1942.7
5°	2025.8	2021.8	2017.9	2021.8	2017.9	2017.9	2013.9	2006.0	1998.1	1986.2	1974.3
7.5°	2053.5	2049.5	2045.6	2049.5	2053.5	2057.4	2061.4	2053.5	2049.5	2033.7	2021.8
10°	2089.1	2085.1	2081.2	2089.1	2089.1	2108.9	2112.8	2108.9	2104.9	2093.0	2073.3
12.5°	2140.5	2144.5	2144.5	2152.4	2160.3	2184.0	2192.0	2180.1	2180.1	2164.3	2140.5
15°	2235.5	2235.5	2235.5	2243.4	2247.3	2279.0	2286.9	2275.0	2283.0	2255.3	2231.5
17.5°	2326.5	2330.4	2338.3	2354.2	2354.2	2381.9	2397.7	2397.7	2413.5	2377.9	2346.3
20°	2417.5	2421.4	2433.3	2468.9	2468.9	2504.5	2532.2	2544.1	2559.9	2524.3	2468.9
22.5°	2516.4	2516.4	2536.2	2591.6	2579.7	2650.9	2702.4	2722.1	2738.0	2690.5	2603.4
25°	2666.7	2650.9	2666.7	2718.2	2710.3	2809.2	2904.1	2923.9	2943.7	2888.3	2757.7
27.5°	2951.6	2927.9	2872.5	2876.4	2876.4	2991.2	3125.7	3153.4	3165.3	3117.8	2955.6
30°	3521.4	3521.4	3315.6	3177.1	3086.1	3189.0	3378.9	3426.4	3442.2	3371.0	3157.4
32.5°	4514.5	4514.5	4134.6	3782.5	3438.3	3438.3	3655.9	3742.9	3758.8	3675.7	3426.4
35°	5780.6	5772.7	5202.9	4720.2	4047.6	3794.4	3980.3	4126.7	4174.2	4063.4	3774.6
37.5°	7125.8	7074.4	6461.1	5907.2	4985.3	4364.1	4419.5	4613.4	4656.9	4565.9	4225.6
40°	8217.9	8158.5	7663.9	7201.0	6196.0	5274.1	5052.6	5230.6	5282.1	5155.4	4763.7
42.5°	9207.0	9060.6	8720.3	8388.0	7588.8	6848.9	5895.3	5966.5	6021.9	5887.4	5369.1
45°	9923.1	9697.6	9523.5	9420.7	8997.3	8577.9	6987.3	6844.9	6864.7	6698.5	6029.9
47.5°	9942.9	9784.7	9800.5	10069.5	10243.6	10227.8	8407.8	7901.3	7826.1	7549.2	6734.1
50°	8993.3	9084.3	9373.2	10140.8	11082.4	11652.2	10097.2	9151.6	8926.1	8427.5	7434.4
52.5°	7410.7	7553.1	8095.2	9389.0	11205.1	12589.9	11850.0	10579.9	10176.4	9298.0	7972.5
55°	5804.3	5812.2	6382.0	7699.5	10386.1	12760.0	13250.6	12150.7	11533.5	9958.8	8328.6
57.5°	3992.2	4209.8	4933.9	5820.2	8538.3	11913.3	13776.9	13369.3	12574.1	10366.3	8577.9
60°	2615.3	2627.2	3469.9	4494.7	5812.2	9693.7	13456.4	14014.3	13416.8	10607.6	8748.0
62°	1843.8	1863.6	2385.8	3671.7	4380.0	6947.8	12748.2	14148.8	13891.6	10750.1	8926.1
62.5°	1709.2	1725.1	2164.3	3466.0	4114.9	6231.6	12494.9	14117.1	13962.8	10797.6	8989.4
65°	1254.2	1254.2	1416.5	2381.9	3014.9	3367.1	10587.9	13488.0	13867.9	11177.4	9226.8
67.5°	969.4	977.3	1032.7	1467.9	2275.0	2041.6	6757.9	12071.6	12878.7	11739.2	9361.3
70°	834.8	830.9	870.5	973.3	1642.0	1357.1	2975.4	9420.7	10785.7	11596.8	9238.7
72.5°	617.2	621.2	712.2	854.6	1143.5	882.3	1345.2	5001.1	6995.3	9076.4	7917.1
75°	395.7	399.6	502.5	672.6	823.0	577.7	775.5	1491.6	2864.6	5032.8	4842.9
77.5°	265.1	273.0	328.4	470.8	720.1	360.1	486.7	625.1	862.5	1887.3	1736.9
80°	178.0	178.0	209.7	316.5	455.0	300.7	261.1	415.4	447.1	585.6	292.8
82.5°	118.7	118.7	138.5	209.7	296.7	269.0	158.3	225.5	261.1	292.8	102.9
85°	71.2	71.2	95.0	130.6	193.9	150.4	102.9	126.6	134.5	186.0	55.4
87.5°	43.5	39.6	63.3	91.0	102.9	91.0	67.3	67.3	71.2	102.9	27.7
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°	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7
2.5°	1934.8	1930.8	1926.9	1918.9	1907.1	1899.2	1891.3	1883.3	1875.4	1875.4	1887.3
5°	1970.4	1958.5	1942.7	1926.9	1903.1	1887.3	1875.4	1859.6	1851.7	1851.7	1855.6
7.5°	2013.9	2002.0	1974.3	1946.6	1911.0	1883.3	1855.6	1820.0	1792.3	1780.5	1792.3
10°	2061.4	2045.6	2006.0	1962.5	1922.9	1851.7	1760.7	1649.9	1554.9	1511.4	1531.2
12.5°	2120.7	2101.0	2053.5	1994.1	1903.1	1729.0	1503.5	1246.3	1084.1	1008.9	1024.8
15°	2207.8	2180.1	2112.8	2021.8	1820.0	1444.2	1076.2	779.4	629.1	565.8	573.7
17.5°	2310.7	2275.0	2184.0	2013.9	1606.4	1040.6	641.0	455.0	391.7	375.9	375.9
20°	2421.4	2374.0	2255.3	1954.6	1281.9	652.8	399.6	348.2	324.4	312.6	312.6
22.5°	2536.2	2472.9	2314.6	1816.1	914.0	407.5	328.4	292.8	265.1	253.2	253.2
25°	2674.7	2591.6	2374.0	1574.7	581.6	328.4	280.9	245.3	217.6	201.8	205.7
27.5°	2836.9	2730.1	2425.4	1274.0	375.9	284.9	233.4	197.8	174.1	166.2	166.2
30°	3007.0	2880.4	2437.3	953.5	304.7	245.3	193.9	162.2	146.4	138.5	138.5
32.5°	3240.5	3074.3	2401.7	633.1	257.2	205.7	162.2	134.5	122.7	118.7	118.7
35°	3549.1	3327.5	2318.6	391.7	217.6	170.1	134.5	118.7	106.8	102.9	102.9
37.5°	3940.8	3679.6	2172.2	269.0	186.0	138.5	114.7	102.9	95.0	91.0	91.0
40°	4463.0	4106.9	1982.3	233.4	158.3	118.7	98.9	91.0	83.1	83.1	83.1
42.5°	5017.0	4625.3	1736.9	205.7	134.5	102.9	87.0	79.1	75.2	71.2	71.2
45°	5622.3	5155.4	1432.3	182.0	114.7	91.0	79.1	67.3	63.3	63.3	63.3
47.5°	6223.7	5701.5	1099.9	158.3	98.9	79.1	67.3	59.3	55.4	51.4	51.4
50°	6841.0	6196.0	807.1	138.5	87.0	71.2	59.3	51.4	43.5	39.6	39.6
52.5°	7288.1	6492.8	589.5	118.7	75.2	59.3	47.5	39.6	31.7	27.7	27.7
55°	7616.4	6674.8	431.3	98.9	67.3	51.4	39.6	31.7	23.7	23.7	19.8
57.5°	7873.6	6761.8	324.4	87.0	59.3	43.5	31.7	23.7	19.8	15.8	15.8
60°	8071.5	6765.8	241.4	71.2	51.4	35.6	23.7	15.8	11.9	11.9	11.9
62°	8332.6	6817.2	197.8	59.3	47.5	31.7	19.8	11.9	7.9	4.0	4.0
62.5°	8407.8	6837.0	189.9	59.3	43.5	27.7	15.8	11.9	7.9	4.0	4.0
65°	8755.9	6872.6	146.4	47.5	35.6	23.7	11.9	7.9	0.0	0.0	0.0
67.5°	9072.5	6817.2	106.8	35.6	27.7	15.8	11.9	4.0	0.0	0.0	0.0
70°	9040.8	6437.4	75.2	23.7	19.8	11.9	7.9	0.0	0.0	0.0	0.0
72.5°	7450.3	4819.1	51.4	19.8	11.9	7.9	4.0	0.0	0.0	0.0	0.0
75°	4498.6	2108.9	35.6	11.9	11.9	7.9	4.0	0.0	0.0	0.0	0.0
77.5°	1475.8	763.6	23.7	7.9	7.9	4.0	4.0	0.0	0.0	0.0	0.0
80°	241.4	126.6	11.9	7.9	7.9	4.0	4.0	0.0	0.0	0.0	0.0
82.5°	75.2	31.7	7.9	7.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0
85°	27.7	11.9	7.9	7.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	7.9	7.9	7.9	4.0	4.0	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)