

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: P400332

Luminaire Tested: **ARCH-L-PA3-260-830-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-260-830-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19679 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G4

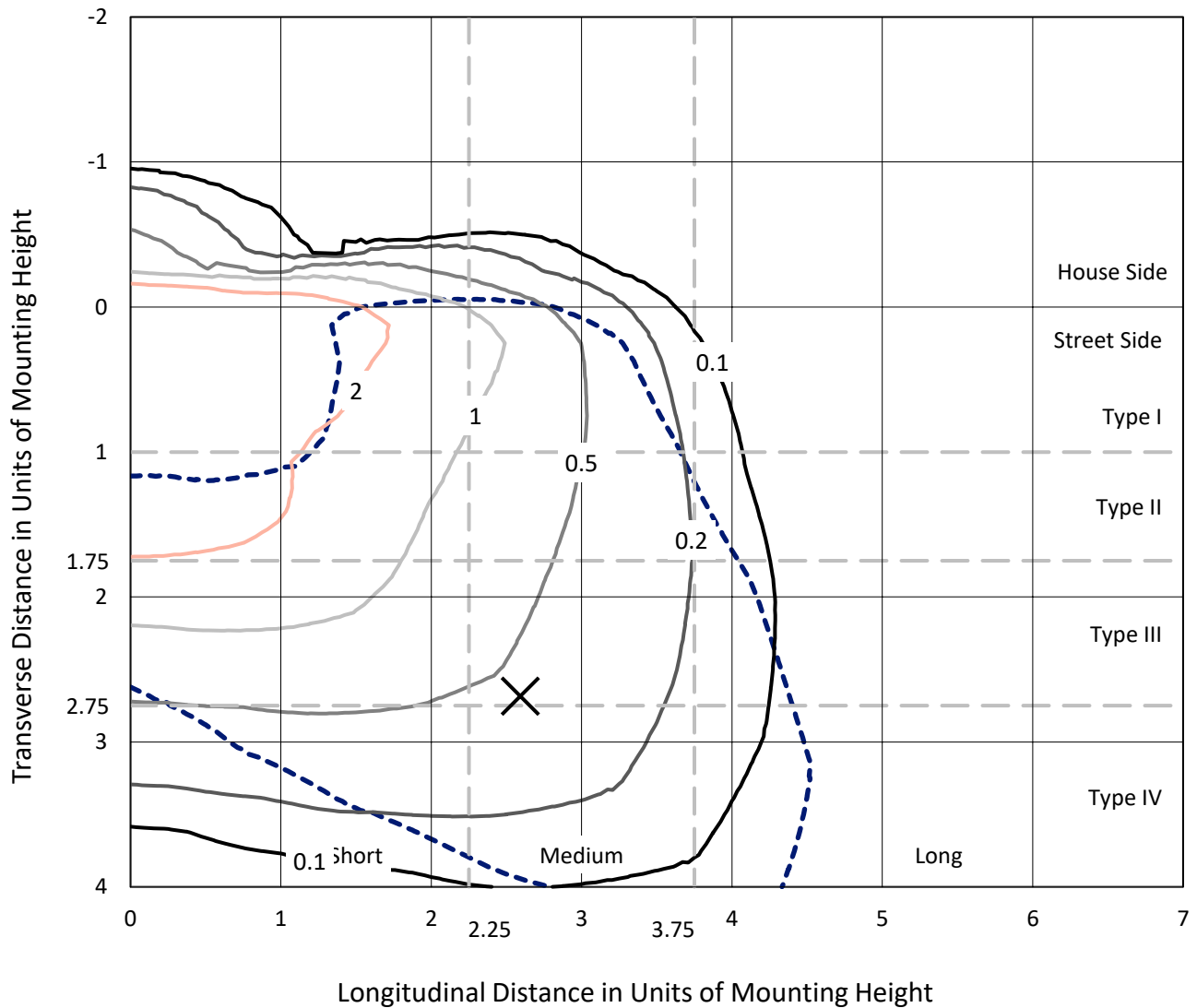
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

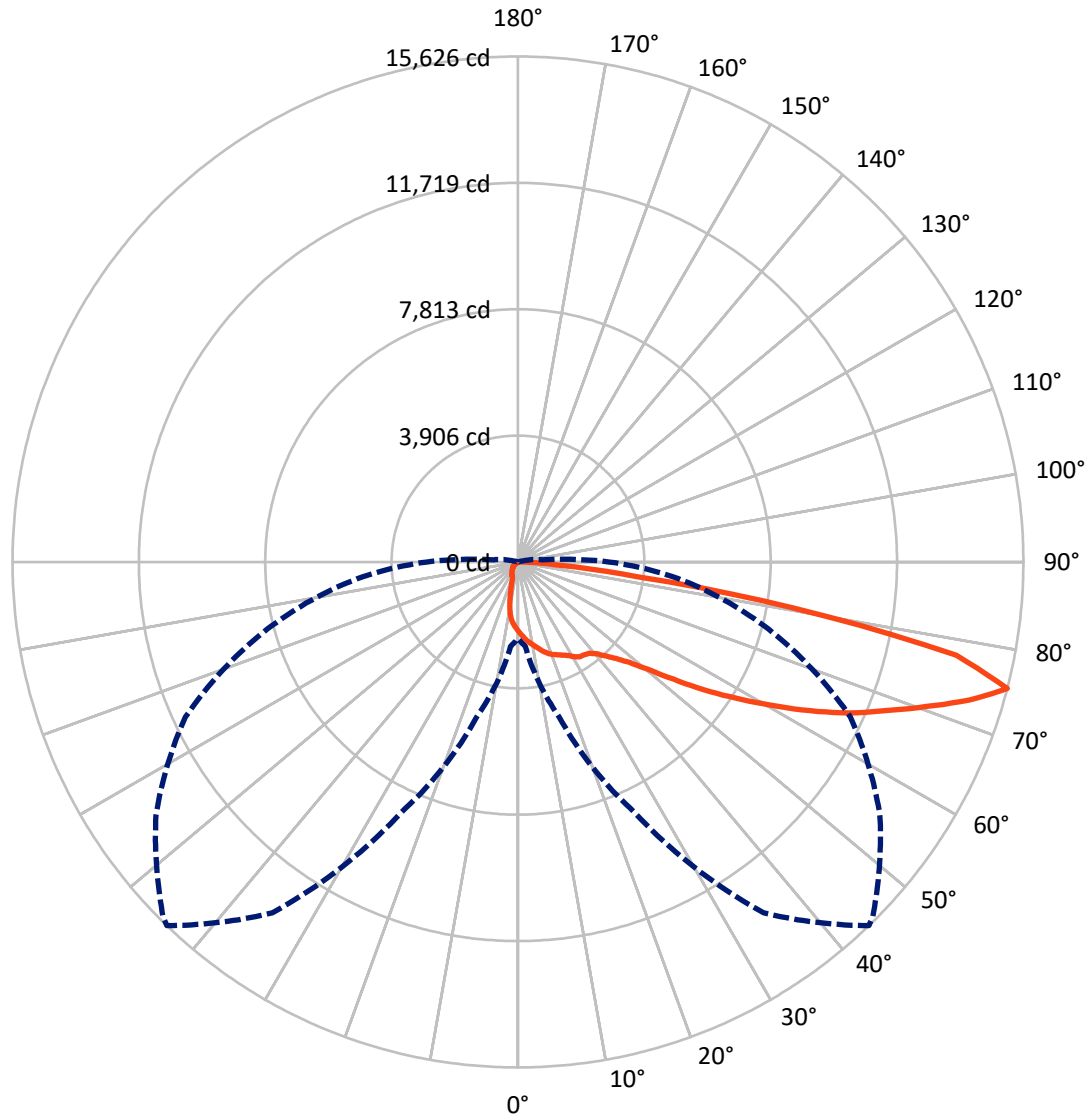
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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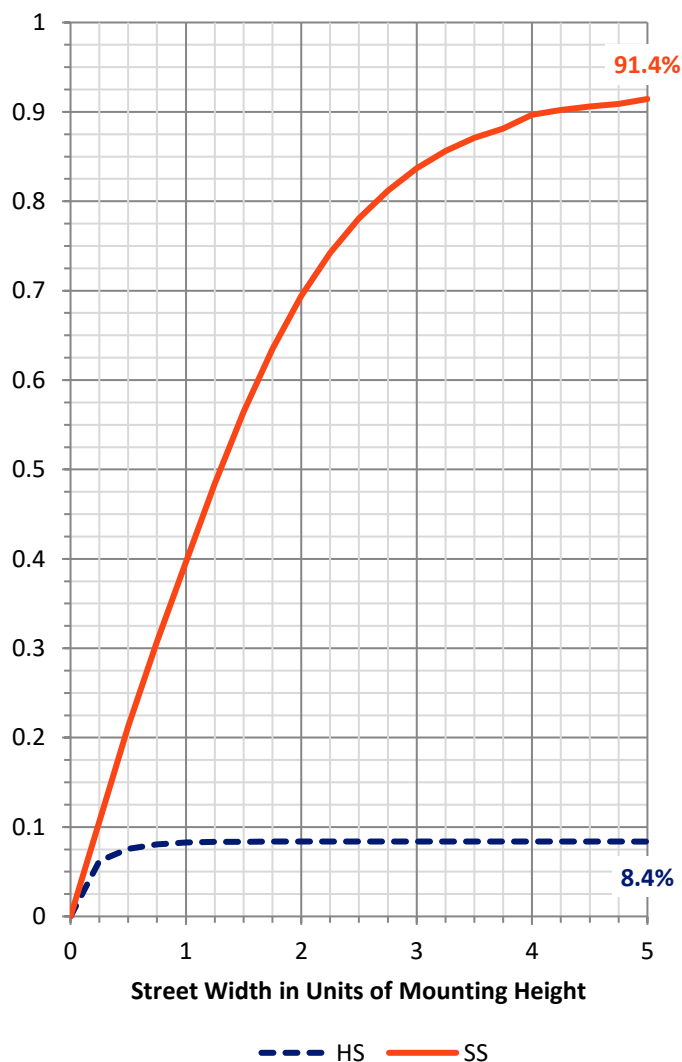
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1659.6	0.0	1659.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	18019.4	0.0	18019.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	19679.0	0.0	19679.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.0	1.0
10°-20°	566.0	2.9
20°-30°	934.1	4.7
30°-40°	1355.8	6.9
40°-50°	2203.9	11.2
50°-60°	3885.3	19.7
60°-70°	5583.9	28.4
70°-80°	4471.5	22.7
80°-90°	476.4	2.4
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°	19679.0	100.0
0°-180°	19679.0	100.0

**Coefficient of Utilization**



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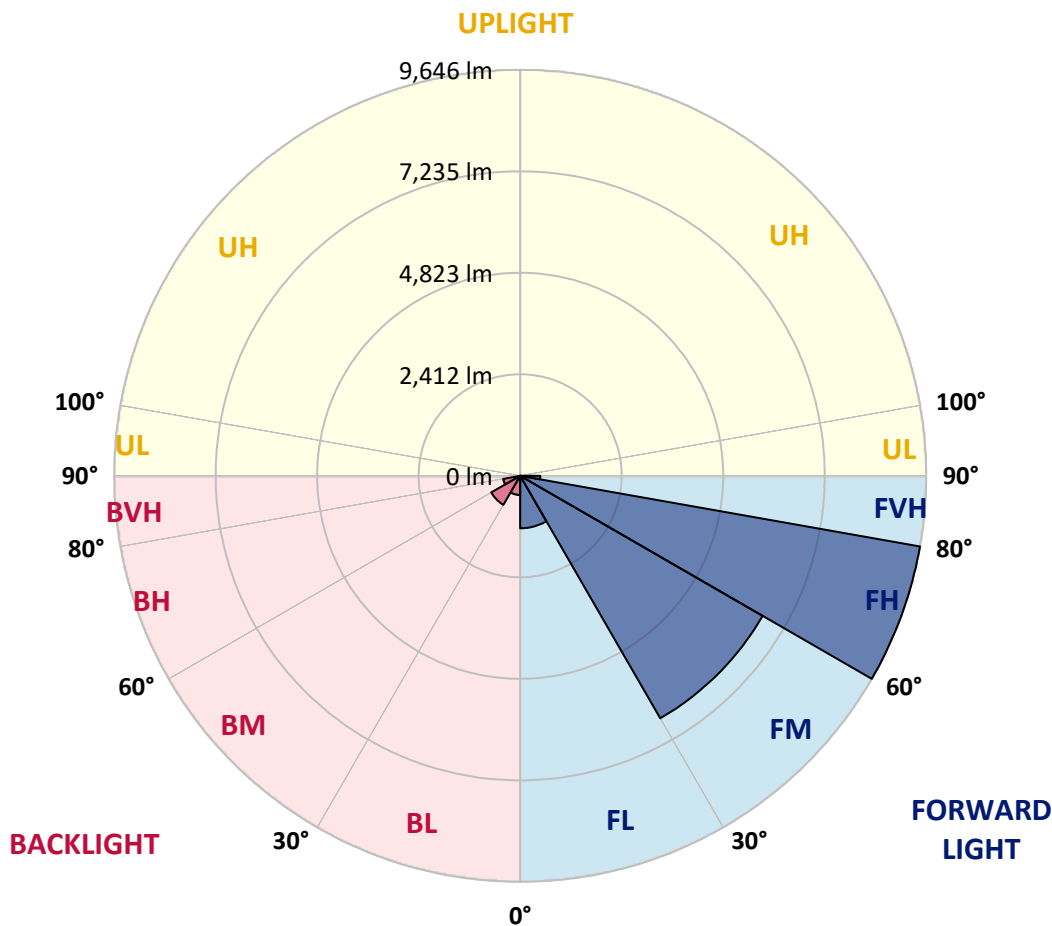
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.2	6.3			
FM (30°-60°)	6651.7	33.8			
FH (60°-80°)	9646.3	49.0			G4/12000
FVH (80°-90°)	475.2	2.4			G3/500
BL (0°-30°)	455.9	2.3	B1/500		
BM (30°-60°)	793.3	4.0	B1/1000		
BH (60°-80°)	409.1	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	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-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0
2.5°	2334.4	2330.8	2319.9	2301.7	2283.6	2265.4	2261.8	2232.7	2200.1	2174.7	2152.9
5°	2541.3	2537.7	2519.6	2479.6	2439.7	2392.5	2388.9	2319.9	2258.2	2189.2	2131.1
7.5°	2755.5	2748.3	2715.6	2653.9	2584.9	2512.3	2505.0	2403.4	2312.6	2221.9	2138.4
10°	2922.5	2915.3	2868.1	2795.5	2701.1	2610.3	2599.4	2494.1	2403.4	2287.2	2174.7
12.5°	3085.9	3071.4	3009.7	2929.8	2813.6	2726.5	2715.6	2606.7	2497.8	2378.0	2240.0
15°	3238.4	3220.2	3162.2	3060.5	2937.1	2853.6	2846.3	2730.1	2617.6	2479.6	2327.1
17.5°	3343.7	3336.4	3267.4	3154.9	3035.1	2966.1	2958.8	2839.0	2726.5	2581.3	2417.9
20°	3398.1	3398.1	3332.8	3209.3	3100.4	3053.2	3042.3	2929.8	2820.9	2682.9	2512.3
22.5°	3409.0	3419.9	3369.1	3234.8	3154.9	3115.0	3107.7	3009.7	2904.4	2777.3	2617.6
25°	3430.8	3430.8	3405.4	3260.2	3202.1	3191.2	3187.6	3100.4	3006.0	2879.0	2722.9
27.5°	3456.2	3456.2	3438.1	3296.5	3274.7	3271.1	3267.4	3227.5	3151.3	3002.4	2846.3
30°	3521.6	3525.2	3510.7	3369.1	3354.6	3394.5	3401.8	3380.0	3285.6	3100.4	2973.4
32.5°	3684.9	3652.3	3612.3	3419.9	3445.3	3496.2	3499.8	3456.2	3354.6	3205.7	3125.8
35°	4095.2	3902.8	3721.2	3463.5	3474.4	3525.2	3532.5	3528.8	3467.1	3340.0	3300.1
37.5°	4476.4	4204.1	3946.3	3565.1	3528.8	3583.3	3597.8	3659.5	3612.3	3525.2	3536.1
40°	4697.8	4592.6	4411.0	3844.7	3637.7	3721.2	3735.8	3830.2	3812.0	3775.7	3844.7
42.5°	5380.4	5387.6	5191.6	4262.2	3837.4	3971.7	3989.9	4066.1	4091.6	4109.7	4276.7
45°	6171.8	6197.2	6150.0	5013.7	4215.0	4258.6	4284.0	4385.6	4480.0	4596.2	4901.2
47.5°	7123.0	7101.2	6927.0	5932.2	4872.1	4628.9	4647.0	4843.1	5006.4	5260.6	5696.2
50°	7965.3	8019.7	7689.4	6789.0	5797.9	5213.4	5195.2	5387.6	5681.7	6037.5	6585.7
52.5°	8814.8	8734.9	8288.4	7638.5	6894.3	6008.4	5954.0	6059.3	6473.1	6894.3	7457.0
55°	9039.9	9047.2	8894.7	8567.9	7809.2	6974.2	6883.4	6876.1	7391.7	7678.5	8371.9
57.5°	9482.8	9501.0	9537.3	9602.6	9243.2	7939.9	7845.5	7743.8	8244.8	8411.8	9290.4
60°	9933.0	9954.8	10176.2	10528.4	10288.8	8981.8	8880.2	8640.5	8920.1	9145.2	10256.1
62.5°	9874.9	10027.4	10670.0	11370.7	11341.6	10125.4	9998.3	9421.1	9599.0	9795.0	11142.0
65°	8916.5	9079.8	10524.8	11603.0	12398.1	11254.5	11047.6	10227.1	10238.0	10473.9	11995.1
67.5°	8059.7	8237.6	9617.1	11505.0	13095.1	12267.4	12053.2	11036.7	10866.0	11258.1	12452.6
70°	7565.9	7743.8	8894.7	11200.0	13291.2	13389.2	13204.1	11962.4	11613.9	11973.3	11940.7
72.5°	5921.3	6200.9	7972.5	10619.2	13501.8	14590.9	14445.7	13135.1	12249.2	11225.5	9090.7
75°	2359.8	2617.6	4977.4	8546.2	13236.7	15625.6	15513.1	13661.5	11338.0	8016.1	4654.3
77.5°	711.6	762.4	1383.2	4225.9	9704.3	13853.9	13817.6	11486.8	8023.4	3721.2	1270.7
80°	236.0	261.4	424.8	1165.4	4429.2	8655.1	8818.4	7319.1	3645.0	853.2	257.8
82.5°	98.0	108.9	214.2	468.3	1568.4	3728.5	3674.0	3278.3	1270.7	530.1	94.4
85°	25.4	32.7	98.0	268.7	573.6	1285.2	1350.5	1100.0	718.8	439.3	29.0
87.5°	0.0	0.0	47.2	108.9	257.8	388.5	406.6	334.0	406.6	330.4	14.5
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°	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0
2.5°	2134.7	2116.6	2083.9	2062.1	2033.1	2025.8	2011.3	1993.1	1989.5	1971.4	1975.0
5°	2098.4	2069.4	2011.3	1971.4	1924.2	1909.6	1884.2	1866.1	1851.5	1826.1	1829.8
7.5°	2091.2	2047.6	1967.7	1891.5	1815.2	1760.8	1684.5	1622.8	1572.0	1517.5	1528.4
10°	2116.6	2062.1	1949.6	1844.3	1706.3	1532.1	1332.4	1201.7	1136.3	1071.0	1078.3
12.5°	2167.4	2102.0	1956.8	1797.1	1517.5	1219.8	943.9	766.0	718.8	689.8	693.4
15°	2243.6	2163.8	1978.6	1706.3	1263.4	882.2	628.1	551.8	570.0	580.9	580.9
17.5°	2323.5	2232.7	1996.8	1543.0	976.6	617.2	511.9	504.6	530.1	555.5	555.5
20°	2421.5	2305.4	2000.4	1336.0	704.3	501.0	482.9	482.9	501.0	530.1	530.1
22.5°	2515.9	2385.2	1967.7	1100.0	537.3	464.7	464.7	464.7	475.6	504.6	508.3
25°	2628.5	2483.2	1898.7	849.5	461.1	442.9	442.9	446.5	453.8	479.2	482.9
27.5°	2748.3	2584.9	1782.6	620.8	421.1	417.5	421.1	424.8	428.4	453.8	461.1
30°	2886.2	2697.4	1633.7	464.7	384.8	384.8	395.7	403.0	403.0	424.8	432.0
32.5°	3046.0	2846.3	1455.8	384.8	348.5	344.9	363.0	373.9	373.9	392.1	399.4
35°	3245.7	2998.8	1241.6	341.3	319.5	312.2	319.5	337.6	344.9	359.4	363.0
37.5°	3510.7	3180.3	1012.9	315.9	297.7	283.2	283.2	286.8	301.3	315.9	319.5
40°	3848.3	3380.0	787.8	297.7	275.9	261.4	250.5	246.9	243.2	254.1	261.4
42.5°	4273.1	3605.1	588.1	279.5	257.8	236.0	221.5	206.9	188.8	185.2	188.8
45°	4817.6	3881.0	435.7	265.0	246.9	214.2	188.8	163.4	130.7	119.8	123.4
47.5°	5460.2	4167.8	341.3	250.5	239.6	188.8	156.1	112.5	79.9	72.6	76.2
50°	6142.8	4443.7	290.4	232.4	225.1	163.4	112.5	69.0	47.2	47.2	50.8
52.5°	6723.7	4599.8	265.0	217.8	203.3	134.3	72.6	39.9	29.0	29.0	32.7
55°	7286.4	4683.3	246.9	203.3	174.3	94.4	39.9	25.4	18.2	18.2	18.2
57.5°	7867.3	4719.6	225.1	185.2	138.0	58.1	21.8	14.5	10.9	10.9	10.9
60°	8382.8	4650.6	192.4	152.5	90.8	29.0	10.9	10.9	7.3	3.6	3.6
62.5°	8814.8	4520.0	134.3	108.9	54.5	14.5	7.3	3.6	0.0	0.0	0.0
65°	9079.8	4309.4	87.1	72.6	32.7	10.9	3.6	0.0	0.0	0.0	0.0
67.5°	9003.6	3913.7	54.5	47.2	14.5	7.3	3.6	0.0	0.0	0.0	0.0
70°	8125.0	3209.3	39.9	29.0	10.9	3.6	0.0	0.0	0.0	0.0	0.0
72.5°	5856.0	2171.0	29.0	18.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2817.3	773.3	18.2	14.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	689.8	170.6	10.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	152.5	32.7	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.8	14.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	3.6	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)