

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: P399925

Luminaire Tested: **ARCH-L-PA3-210-730-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-210-730-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 900mA 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: 19887 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

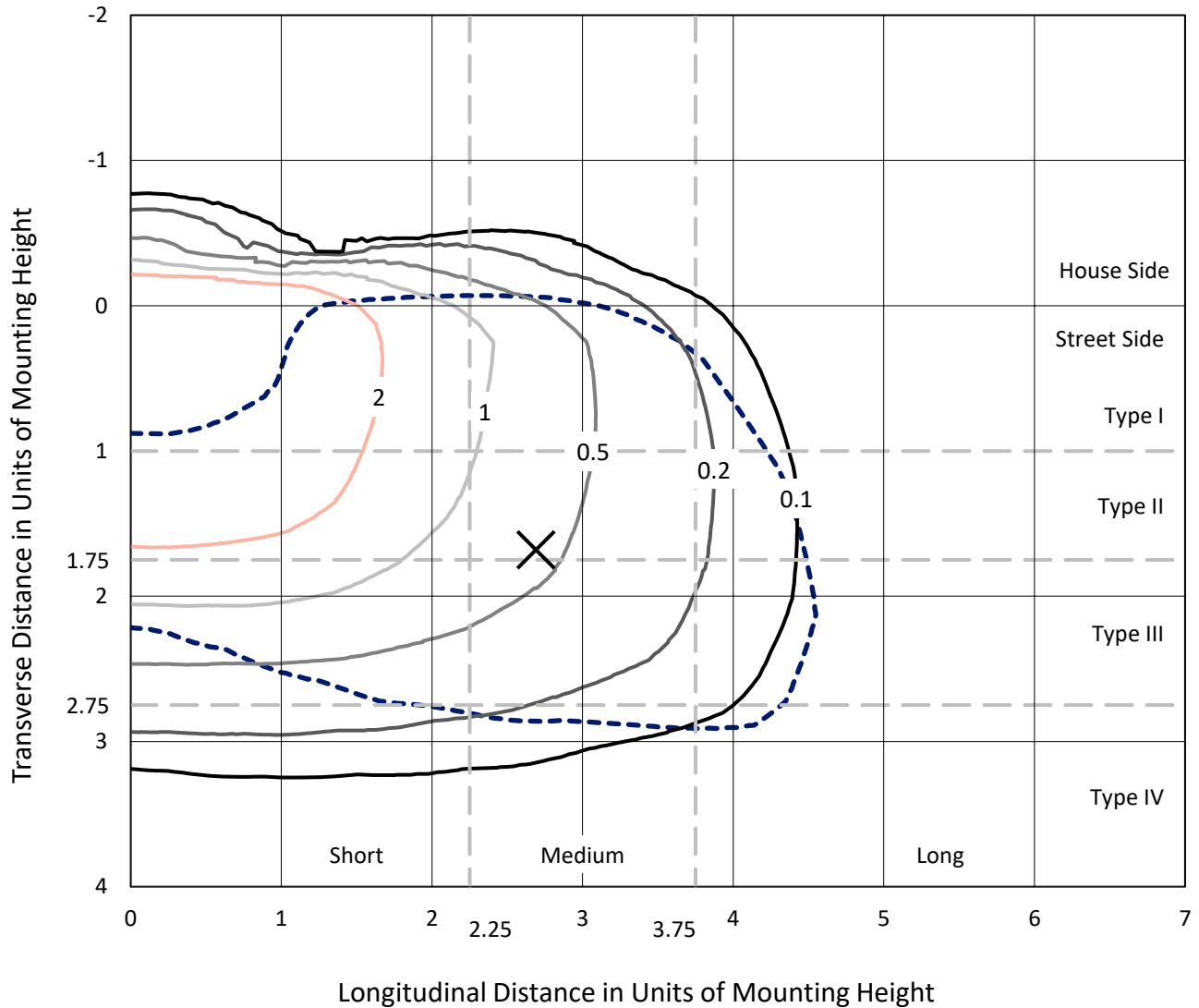
Input Watts (W): 211  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

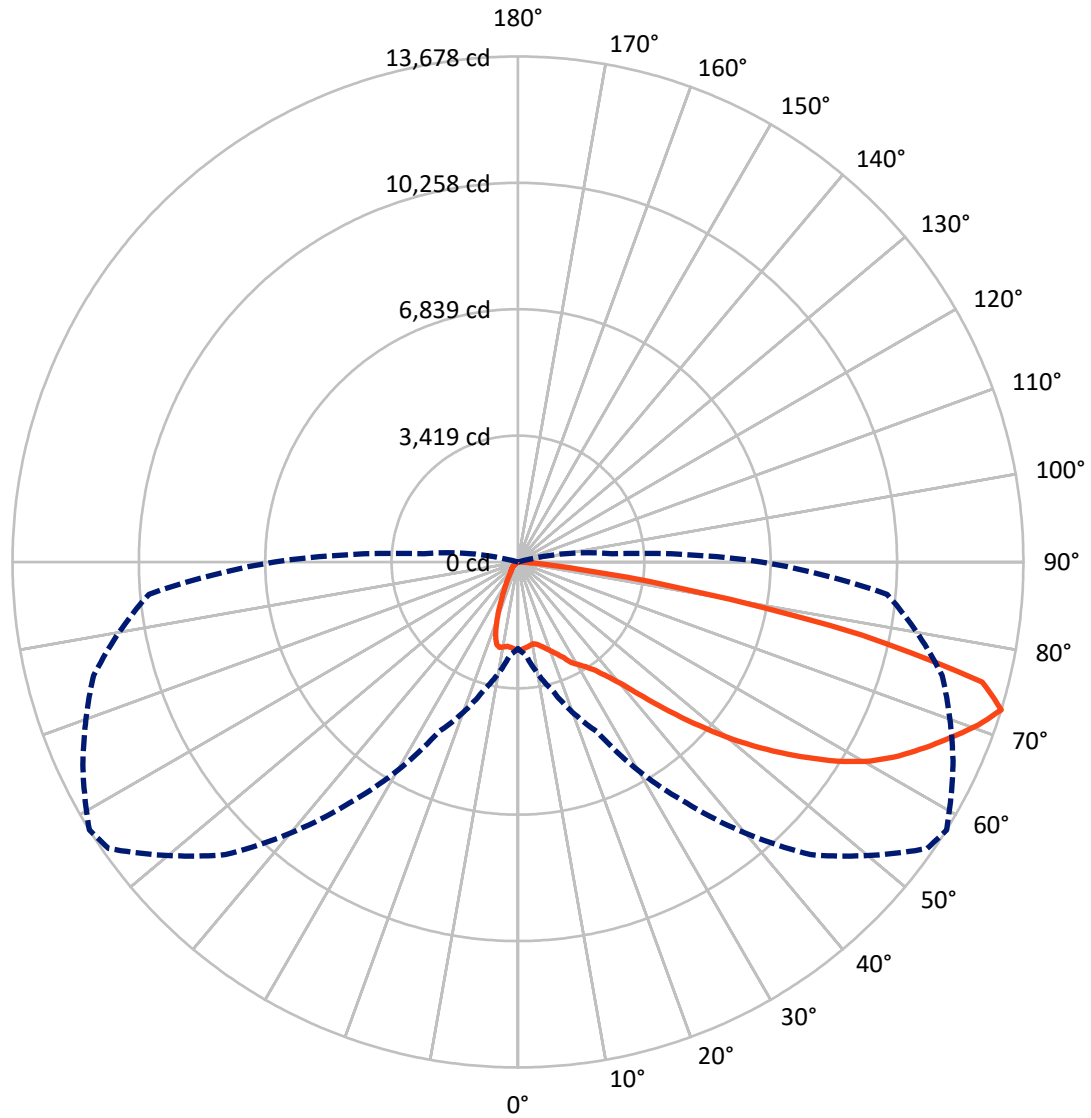
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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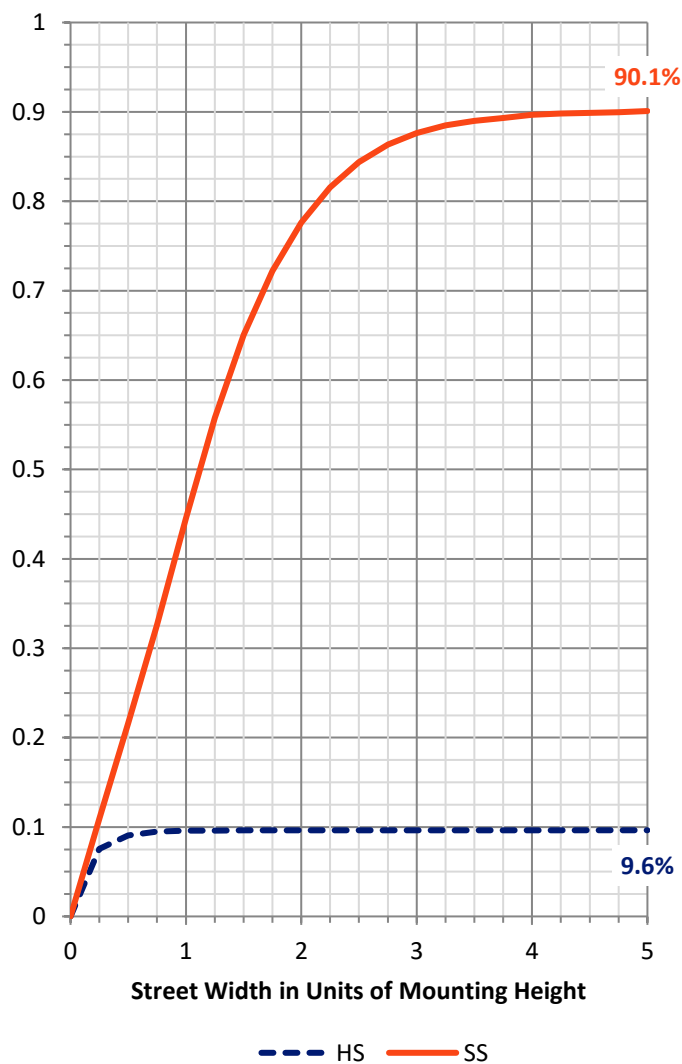
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1933.9	0.0	1933.9
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	17953.1	0.0	17953.1
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	19887.0	0.0	19887.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.0	1.1
10°-20°	570.4	2.9
20°-30°	896.1	4.5
30°-40°	1545.4	7.8
40°-50°	2940.2	14.8
50°-60°	4656.3	23.4
60°-70°	5433.4	27.3
70°-80°	3402.9	17.1
80°-90°	223.4	1.1
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°	19887.0	100.0
0°-180°	19887.0	100.0

**Coefficient of Utilization**

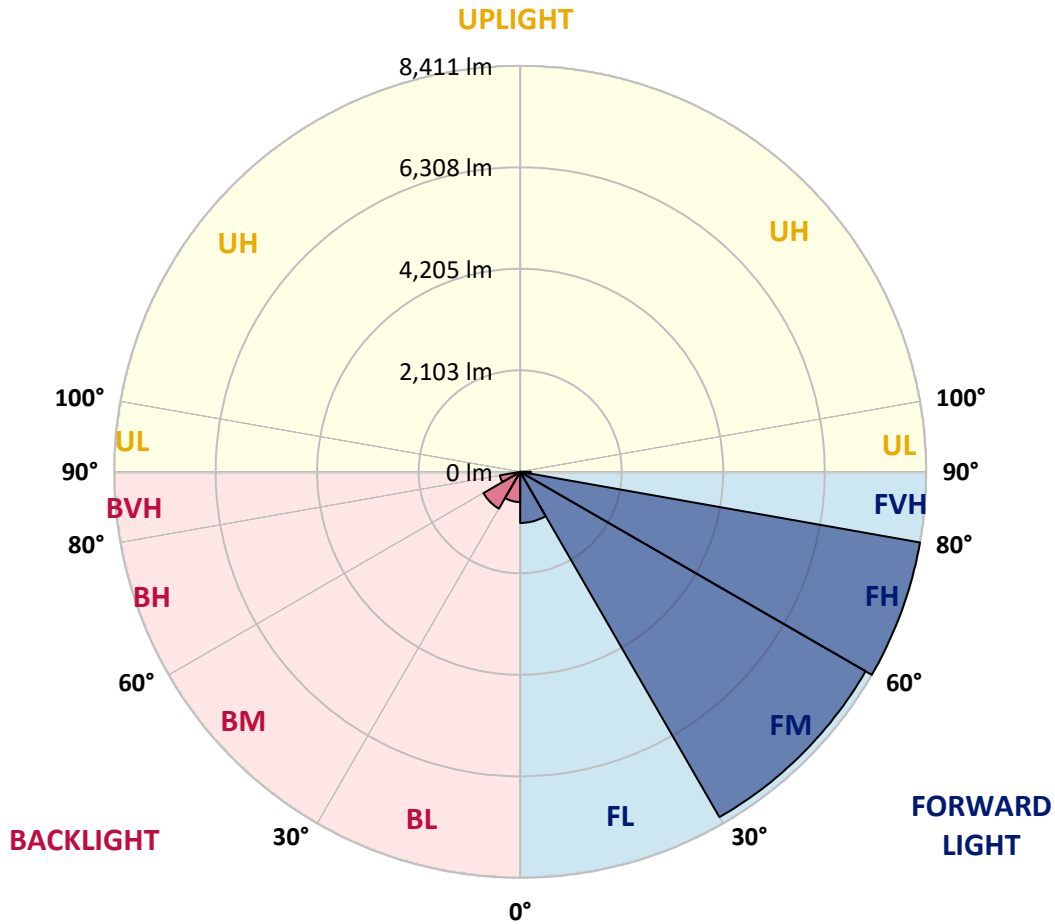


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.2	5.3			
FM (30°-60°)	8261.9	41.5			
FH (60°-80°)	8410.8	42.3			G4/12000
FVH (80°-90°)	221.2	1.1			G2/225
BL (0°-30°)	626.2	3.1	B2/1000		
BM (30°-60°)	879.9	4.4	B1/1000		
BH (60°-80°)	425.5	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3
2.5°	2375.6	2365.0	2361.4	2357.9	2361.4	2365.0	2354.3	2365.0	2357.9	2361.4	2368.5
5°	2290.3	2279.6	2276.1	2279.6	2290.3	2308.1	2315.2	2325.9	2325.9	2336.5	2340.1
7.5°	2194.3	2187.2	2183.6	2190.7	2212.1	2251.2	2272.5	2286.7	2301.0	2322.3	2343.6
10°	2140.9	2137.4	2133.8	2144.5	2165.8	2201.4	2229.8	2251.2	2304.5	2365.0	2404.1
12.5°	2105.4	2105.4	2112.5	2133.8	2162.3	2190.7	2258.3	2286.7	2368.5	2461.0	2514.3
15°	2076.9	2076.9	2087.6	2126.7	2165.8	2233.4	2333.0	2365.0	2461.0	2574.8	2645.9
17.5°	2055.6	2062.7	2069.8	2108.9	2183.6	2297.4	2414.8	2461.0	2578.4	2702.8	2781.1
20°	2059.1	2066.2	2069.8	2108.9	2215.6	2372.1	2521.5	2574.8	2709.9	2841.5	2919.8
22.5°	2080.5	2091.1	2094.7	2148.0	2272.5	2450.3	2642.4	2702.8	2848.6	2987.3	3047.8
25°	2169.4	2176.5	2155.2	2201.4	2354.3	2571.2	2798.9	2862.9	3008.7	3136.7	3186.5
27.5°	2471.7	2478.8	2361.4	2308.1	2418.3	2670.8	2990.9	3079.8	3261.2	3346.5	3353.6
30°	3126.0	3133.2	2902.0	2649.5	2571.2	2756.2	3097.6	3222.1	3456.8	3552.8	3510.1
32.5°	3968.9	3961.8	3645.3	3271.9	2934.0	2905.5	3250.5	3382.1	3638.2	3730.6	3698.6
35°	4815.3	4826.0	4555.7	3993.8	3510.1	3186.5	3446.1	3599.0	3908.4	4040.0	3983.1
37.5°	5395.0	5466.1	5348.8	4740.6	4217.8	3705.7	3762.6	3926.2	4313.9	4491.7	4370.8
40°	6213.0	6195.2	5910.7	5462.6	5000.2	4473.9	4274.7	4353.0	4797.5	5035.8	4847.3
42.5°	7311.9	7276.3	6792.7	6355.2	5839.5	5409.2	5003.8	4989.6	5352.3	5629.7	5355.9
45°	8307.7	8254.3	7923.6	7500.4	6934.9	6440.6	5892.9	5768.4	6020.9	6255.6	5935.6
47.5°	9100.7	9011.8	8777.1	8553.1	8414.4	7646.2	6824.7	6636.2	6764.2	6938.5	6486.8
50°	10039.6	9794.2	9452.8	9317.7	9605.7	9011.8	7720.9	7539.5	7532.4	7632.0	7055.8
52.5°	10466.4	10021.8	9829.8	9943.6	10452.1	10281.4	8688.2	8428.6	8325.4	8336.1	7585.7
55°	9950.7	9900.9	10004.0	10359.7	11024.7	10925.1	9616.4	9296.3	9143.4	8951.4	8094.3
57.5°	9363.9	9516.8	9925.8	10605.1	11750.2	11597.3	10530.4	10167.6	9886.7	9445.7	8659.7
60°	8823.3	8979.8	9655.5	10662.0	12148.5	12244.6	11291.4	10946.5	10530.4	9950.7	9282.1
62.5°	8001.8	8122.7	9072.3	10580.2	11974.3	12621.5	11821.3	11561.7	11174.1	10430.8	9996.9
65°	7077.2	7155.4	8094.3	9925.8	11632.9	12578.9	12258.8	12113.0	11736.0	10932.3	10704.6
67.5°	6063.6	6156.1	6938.5	8748.7	10964.3	12379.7	12671.3	12657.1	12226.8	11487.0	11216.8
70°	4897.1	4904.2	5551.5	7255.0	9797.8	11981.4	13183.4	13215.4	12696.2	11903.1	11238.1
72.5°	2343.6	2535.7	3599.0	5064.3	7962.7	11199.0	13517.7	13677.8	12991.4	11888.9	10025.4
75°	537.0	554.8	1049.1	2407.7	4669.5	8595.7	12682.0	12980.7	12273.0	10281.4	7062.9
77.5°	195.6	206.3	295.2	704.2	1796.0	4441.9	9075.8	9513.3	9072.3	6646.8	3339.4
80°	131.6	128.0	152.9	313.0	825.1	1259.0	4641.1	4900.7	4473.9	2269.0	800.2
82.5°	67.6	71.1	106.7	174.3	554.8	437.4	1550.6	1685.7	1387.0	455.2	149.4
85°	32.0	32.0	60.5	110.2	234.7	152.9	345.0	416.1	373.4	199.2	49.8
87.5°	32.0	32.0	56.9	71.1	120.9	64.0	85.4	106.7	99.6	106.7	17.8
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°	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3	2386.3
2.5°	2368.5	2365.0	2361.4	2368.5	2365.0	2372.1	2372.1	2379.2	2379.2	2372.1	2368.5
5°	2336.5	2329.4	2322.3	2322.3	2318.7	2325.9	2347.2	2365.0	2368.5	2357.9	2354.3
7.5°	2340.1	2340.1	2333.0	2318.7	2293.9	2293.9	2293.9	2315.2	2325.9	2318.7	2315.2
10°	2404.1	2407.7	2389.9	2357.9	2315.2	2276.1	2201.4	2091.1	1988.0	1959.6	1948.9
12.5°	2514.3	2517.9	2482.3	2425.4	2336.5	2105.4	1820.9	1557.7	1355.0	1298.1	1287.4
15°	2645.9	2649.5	2585.5	2493.0	2222.7	1685.7	1262.5	963.8	786.0	743.3	739.7
17.5°	2781.1	2774.0	2677.9	2500.1	1884.9	1194.9	768.2	615.3	569.0	558.3	561.9
20°	2912.7	2891.3	2759.7	2368.5	1451.0	782.4	561.9	526.3	515.7	508.6	508.6
22.5°	3033.6	2990.9	2827.3	2108.9	1017.1	561.9	501.4	494.3	480.1	469.4	465.9
25°	3154.5	3094.0	2870.0	1771.1	682.8	490.8	473.0	458.8	441.0	426.8	423.2
27.5°	3300.3	3215.0	2848.6	1344.3	512.1	455.2	441.0	419.7	394.8	373.4	366.3
30°	3439.0	3343.0	2727.7	928.2	437.4	419.7	398.3	366.3	334.3	309.4	302.3
32.5°	3613.3	3503.0	2510.8	608.1	380.5	366.3	345.0	305.8	263.2	234.7	227.6
35°	3862.2	3737.7	2233.4	426.8	334.3	309.4	281.0	238.3	192.0	170.7	167.1
37.5°	4210.7	4043.6	1884.9	345.0	295.2	259.6	216.9	174.3	142.3	124.5	120.9
40°	4637.5	4381.4	1497.2	305.8	263.2	216.9	163.6	124.5	103.1	88.9	88.9
42.5°	5099.8	4698.0	1102.5	281.0	231.2	177.8	120.9	88.9	74.7	67.6	64.0
45°	5576.4	4978.9	743.3	259.6	202.7	135.1	85.4	60.5	49.8	49.8	46.2
47.5°	6070.7	5167.4	480.1	234.7	170.7	99.6	56.9	42.7	35.6	35.6	35.6
50°	6561.5	5267.0	341.4	213.4	138.7	67.6	42.7	32.0	28.5	28.5	28.5
52.5°	6917.1	5203.0	273.8	184.9	106.7	49.8	32.0	24.9	21.3	21.3	21.3
55°	7226.5	5092.7	238.3	160.0	78.2	35.6	24.9	21.3	17.8	17.8	17.8
57.5°	7543.0	4950.5	213.4	135.1	56.9	24.9	17.8	14.2	14.2	14.2	14.2
60°	7831.1	4708.6	184.9	106.7	39.1	17.8	14.2	10.7	10.7	10.7	10.7
62.5°	8112.1	4502.4	160.0	81.8	28.5	14.2	7.1	7.1	3.6	3.6	3.6
65°	8272.1	4225.0	128.0	53.3	17.8	10.7	3.6	3.6	0.0	0.0	0.0
67.5°	8222.3	3894.2	88.9	32.0	10.7	7.1	3.6	0.0	0.0	0.0	0.0
70°	7877.3	3449.7	53.3	17.8	10.7	7.1	3.6	0.0	0.0	0.0	0.0
72.5°	6597.1	2553.5	32.0	14.2	7.1	3.6	0.0	0.0	0.0	0.0	0.0
75°	4406.3	1173.6	17.8	10.7	3.6	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	2016.5	352.1	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	405.4	92.5	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	85.4	17.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	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)