

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: P399790

Luminaire Tested: **ARCH-L-PA3-190-740-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399790  
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-PA3-190-740-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 810mA 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: 20210 lumens  
Efficiency: N/A  
Efficacy: 106.9 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

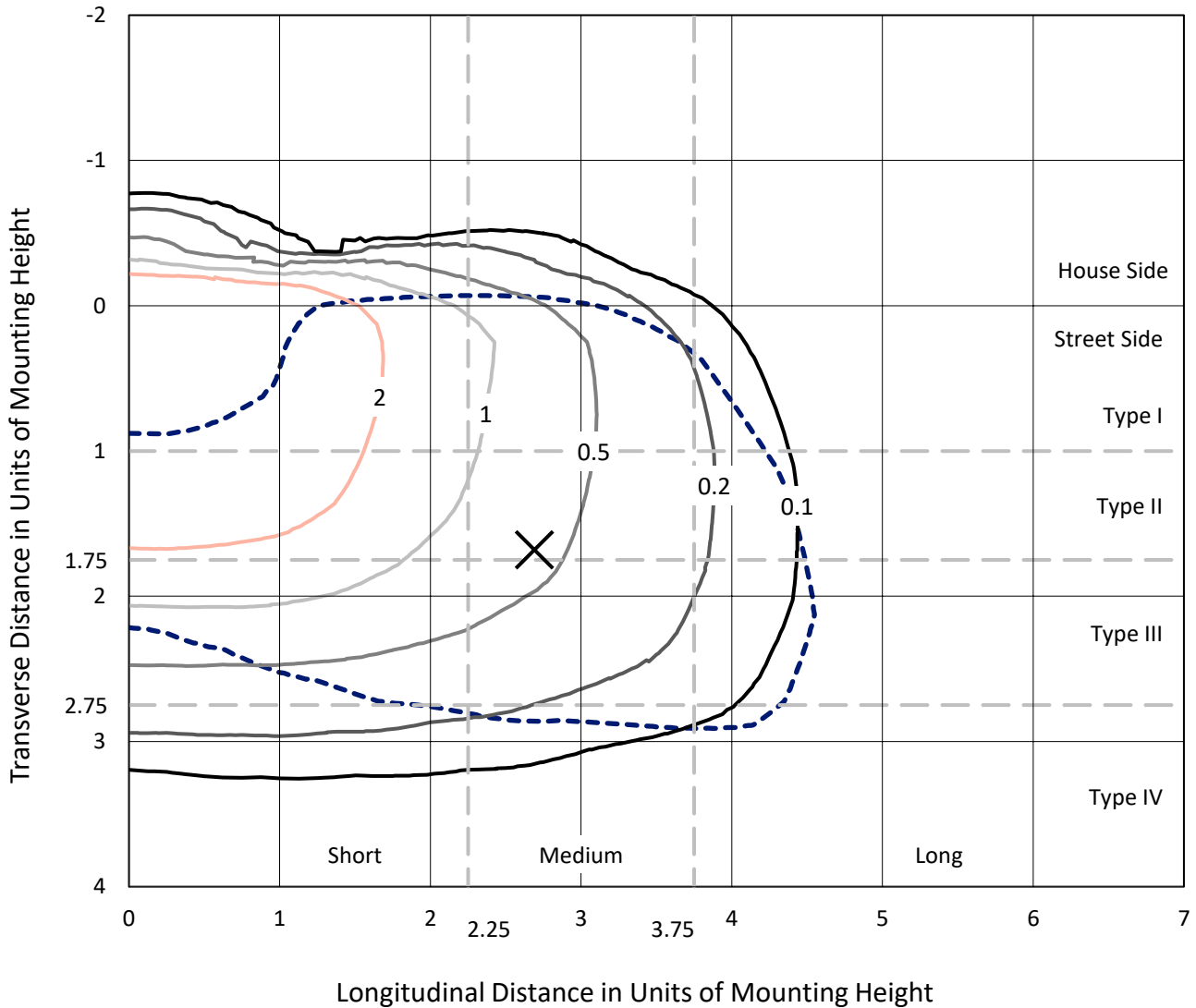
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

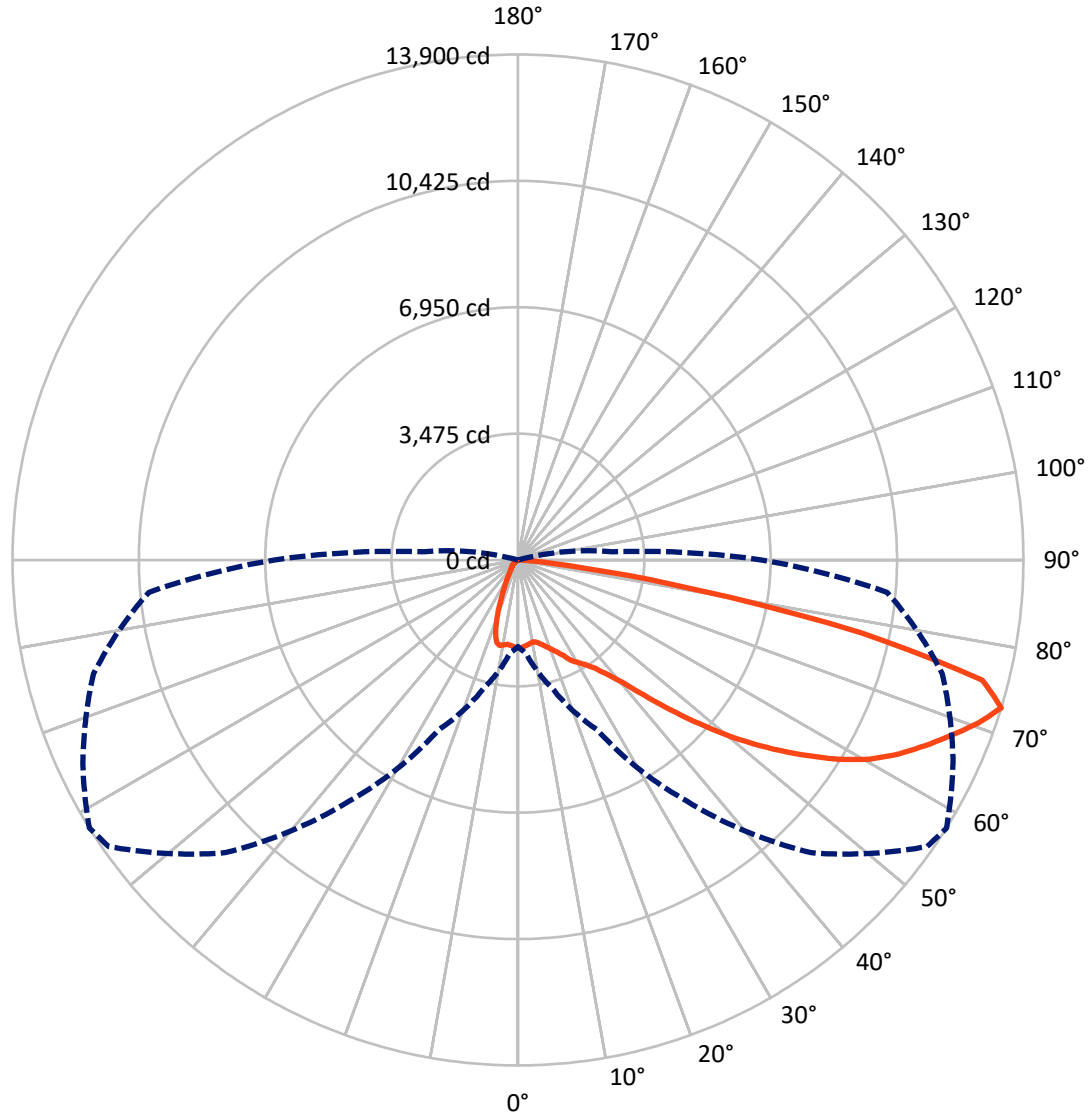
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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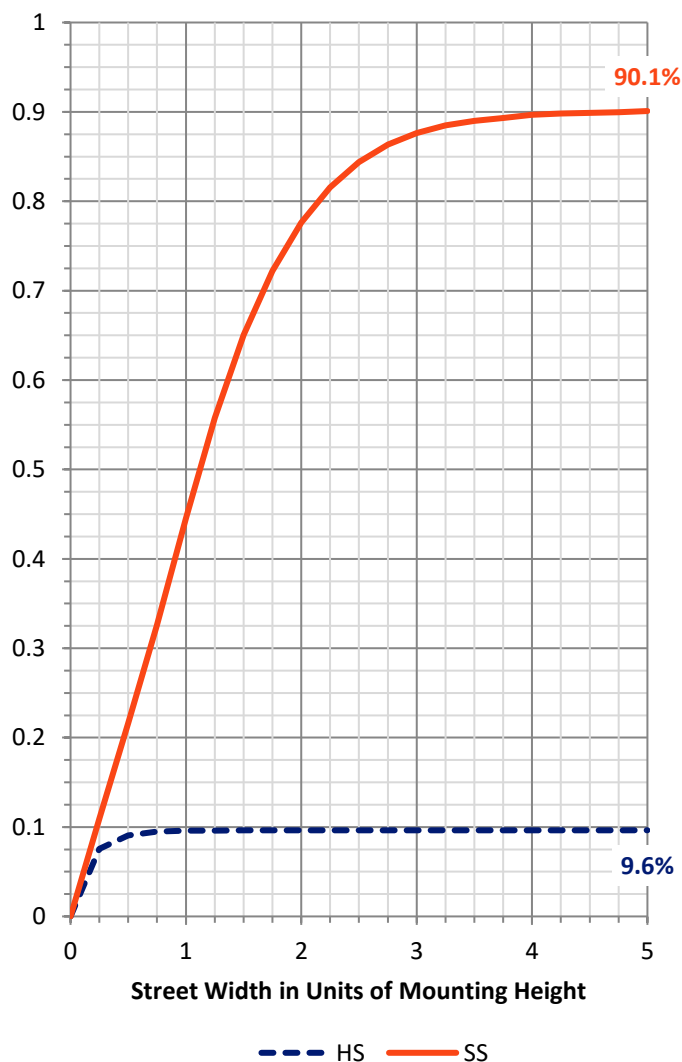
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1965.3	0.0	1965.3
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	18244.7	0.0	18244.7
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	20210.0	0.0	20210.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.6	1.1
10°-20°	579.7	2.9
20°-30°	910.6	4.5
30°-40°	1570.5	7.8
40°-50°	2987.9	14.8
50°-60°	4731.9	23.4
60°-70°	5521.6	27.3
70°-80°	3458.2	17.1
80°-90°	227.0	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°	20210.0	100.0
0°-180°	20210.0	100.0

**Coefficient of Utilization**



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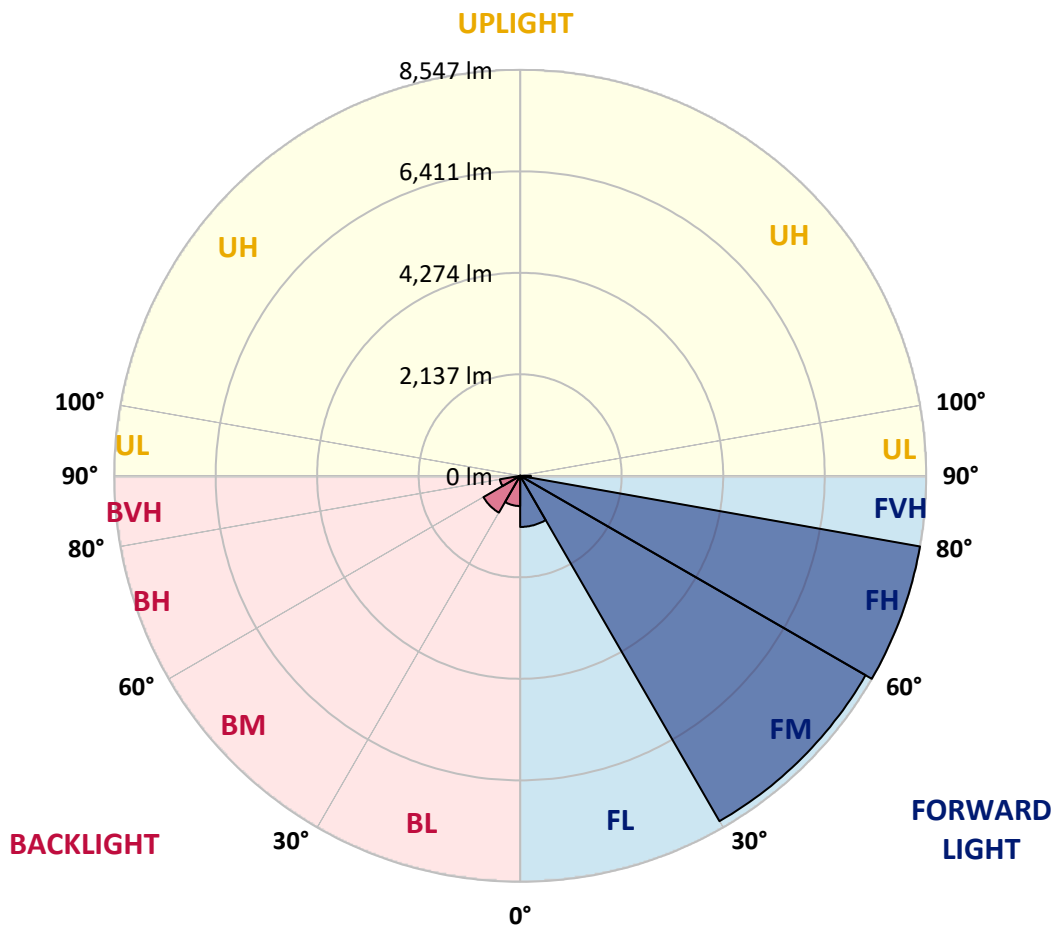
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.5	5.3			
FM (30°-60°)	8396.1	41.5			
FH (60°-80°)	8547.4	42.3			G4/12000
FVH (80°-90°)	224.8	1.1			G2/225
BL (0°-30°)	636.4	3.1	B2/1000		
BM (30°-60°)	894.2	4.4	B1/1000		
BH (60°-80°)	432.4	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°	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1
2.5°	2414.2	2403.4	2399.8	2396.2	2399.8	2403.4	2392.5	2403.4	2396.2	2399.8	2407.0
5°	2327.5	2316.7	2313.0	2316.7	2327.5	2345.6	2352.8	2363.6	2363.6	2374.5	2378.1
7.5°	2229.9	2222.7	2219.1	2226.3	2248.0	2287.7	2309.4	2323.9	2338.3	2360.0	2381.7
10°	2175.7	2172.1	2168.5	2179.3	2201.0	2237.1	2266.1	2287.7	2342.0	2403.4	2443.1
12.5°	2139.6	2139.6	2146.8	2168.5	2197.4	2226.3	2295.0	2323.9	2407.0	2501.0	2555.2
15°	2110.6	2110.6	2121.5	2161.2	2201.0	2269.7	2370.9	2403.4	2501.0	2616.6	2688.9
17.5°	2089.0	2096.2	2103.4	2143.2	2219.1	2334.7	2454.0	2501.0	2620.2	2746.7	2826.2
20°	2092.6	2099.8	2103.4	2143.2	2251.6	2410.6	2562.4	2616.6	2754.0	2887.7	2967.2
22.5°	2114.3	2125.1	2128.7	2182.9	2309.4	2490.1	2685.3	2746.7	2894.9	3035.9	3097.3
25°	2204.6	2211.8	2190.2	2237.1	2392.5	2613.0	2844.3	2909.4	3057.5	3187.7	3238.3
27.5°	2511.8	2519.0	2399.8	2345.6	2457.6	2714.2	3039.5	3129.8	3314.2	3400.9	3408.1
30°	3176.8	3184.0	2949.1	2692.5	2613.0	2800.9	3147.9	3274.4	3512.9	3610.5	3567.1
32.5°	4033.4	4026.1	3704.5	3325.0	2981.7	2952.7	3303.3	3437.0	3697.2	3791.2	3758.7
35°	4893.5	4904.4	4629.7	4058.7	3567.1	3238.3	3502.1	3657.5	3971.9	4105.6	4047.8
37.5°	5482.6	5554.9	5435.6	4817.6	4286.4	3765.9	3823.7	3990.0	4383.9	4564.6	4441.8
40°	6313.9	6295.8	6006.7	5551.3	5081.5	4546.6	4344.2	4423.7	4875.5	5117.6	4926.1
42.5°	7430.6	7394.5	6903.0	6458.4	5934.4	5497.1	5085.1	5070.6	5439.3	5721.2	5442.9
45°	8442.6	8388.4	8052.3	7622.2	7047.5	6545.2	5988.6	5862.1	6118.7	6357.2	6032.0
47.5°	9248.5	9158.2	8919.7	8692.0	8551.0	7770.4	6935.5	6744.0	6874.1	7051.2	6592.2
50°	10202.7	9953.3	9606.3	9469.0	9761.7	9158.2	7846.3	7661.9	7654.7	7755.9	7170.4
52.5°	10636.4	10184.6	9989.4	10105.1	10621.9	10448.4	8829.3	8565.5	8460.7	8471.5	7708.9
55°	10112.3	10061.7	10166.5	10527.9	11203.8	11102.6	9772.6	9447.3	9291.9	9096.7	8225.7
57.5°	9516.0	9671.4	10087.0	10777.3	11941.1	11785.7	10701.4	10332.8	10047.3	9599.1	8800.4
60°	8966.6	9125.7	9812.3	10835.1	12345.8	12443.4	11474.8	11124.3	10701.4	10112.3	9432.9
62.5°	8131.8	8254.7	9219.6	10752.0	12168.8	12826.5	12013.3	11749.5	11355.6	10600.2	10159.3
65°	7192.1	7271.6	8225.7	10087.0	11821.8	12783.2	12457.9	12309.7	11926.6	11109.8	10878.5
67.5°	6162.1	6256.0	7051.2	8890.7	11142.3	12580.8	12877.1	12862.7	12425.4	11673.6	11398.9
70°	4976.6	4983.9	5641.6	7372.8	9956.9	12176.0	13397.6	13430.1	12902.4	12096.5	11420.6
72.5°	2381.7	2576.9	3657.5	5146.5	8092.0	11380.9	13737.3	13899.9	13202.4	12082.0	10188.2
75°	545.7	563.8	1066.2	2446.8	4745.3	8735.3	12888.0	13191.6	12472.3	10448.4	7177.6
77.5°	198.8	209.6	300.0	715.6	1825.1	4514.0	9223.2	9667.8	9219.6	6754.8	3393.7
80°	133.7	130.1	155.4	318.0	838.5	1279.4	4716.4	4980.3	4546.6	2305.8	813.2
82.5°	68.7	72.3	108.4	177.1	563.8	444.5	1575.8	1713.1	1409.5	462.6	151.8
85°	32.5	32.5	61.4	112.0	238.5	155.4	350.6	422.9	379.5	202.4	50.6
87.5°	32.5	32.5	57.8	72.3	122.9	65.1	86.7	108.4	101.2	108.4	18.1
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°	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1
2.5°	2407.0	2403.4	2399.8	2407.0	2403.4	2410.6	2410.6	2417.8	2417.8	2410.6	2407.0
5°	2374.5	2367.3	2360.0	2360.0	2356.4	2363.6	2385.3	2403.4	2407.0	2396.2	2392.5
7.5°	2378.1	2378.1	2370.9	2356.4	2331.1	2331.1	2331.1	2352.8	2363.6	2356.4	2352.8
10°	2443.1	2446.8	2428.7	2396.2	2352.8	2313.0	2237.1	2125.1	2020.3	1991.4	1980.5
12.5°	2555.2	2558.8	2522.7	2464.8	2374.5	2139.6	1850.4	1583.0	1377.0	1319.2	1308.3
15°	2688.9	2692.5	2627.5	2533.5	2258.8	1713.1	1283.0	979.4	798.7	755.4	751.7
17.5°	2826.2	2819.0	2721.4	2540.7	1915.5	1214.3	780.7	625.2	578.3	567.4	571.0
20°	2960.0	2938.3	2804.6	2407.0	1474.6	795.1	571.0	534.9	524.0	516.8	516.8
22.5°	3082.8	3039.5	2873.2	2143.2	1033.6	571.0	509.6	502.4	487.9	477.1	473.5
25°	3205.7	3144.3	2916.6	1799.8	693.9	498.7	480.7	466.2	448.2	433.7	430.1
27.5°	3353.9	3267.2	2894.9	1366.1	520.4	462.6	448.2	426.5	401.2	379.5	372.3
30°	3494.9	3397.3	2772.0	943.3	444.5	426.5	404.8	372.3	339.7	314.4	307.2
32.5°	3671.9	3559.9	2551.6	618.0	386.7	372.3	350.6	310.8	267.4	238.5	231.3
35°	3924.9	3798.4	2269.7	433.7	339.7	314.4	285.5	242.1	195.2	173.5	169.9
37.5°	4279.1	4109.3	1915.5	350.6	300.0	263.8	220.5	177.1	144.6	126.5	122.9
40°	4712.8	4452.6	1521.5	310.8	267.4	220.5	166.2	126.5	104.8	90.4	90.4
42.5°	5182.7	4774.3	1120.4	285.5	234.9	180.7	122.9	90.4	75.9	68.7	65.1
45°	5666.9	5059.8	755.4	263.8	206.0	137.3	86.7	61.4	50.6	50.6	47.0
47.5°	6169.3	5251.3	487.9	238.5	173.5	101.2	57.8	43.4	36.1	36.1	36.1
50°	6668.1	5352.5	347.0	216.8	141.0	68.7	43.4	32.5	28.9	28.9	28.9
52.5°	7029.5	5287.5	278.3	187.9	108.4	50.6	32.5	25.3	21.7	21.7	21.7
55°	7343.9	5175.4	242.1	162.6	79.5	36.1	25.3	21.7	18.1	18.1	18.1
57.5°	7665.6	5030.9	216.8	137.3	57.8	25.3	18.1	14.5	14.5	14.5	14.5
60°	7958.3	4785.1	187.9	108.4	39.8	18.1	14.5	10.8	10.8	10.8	10.8
62.5°	8243.8	4575.5	162.6	83.1	28.9	14.5	7.2	7.2	3.6	3.6	3.6
65°	8406.5	4293.6	130.1	54.2	18.1	10.8	3.6	3.6	0.0	0.0	0.0
67.5°	8355.9	3957.5	90.4	32.5	10.8	7.2	3.6	0.0	0.0	0.0	0.0
70°	8005.3	3505.7	54.2	18.1	10.8	7.2	3.6	0.0	0.0	0.0	0.0
72.5°	6704.2	2594.9	32.5	14.5	7.2	3.6	0.0	0.0	0.0	0.0	0.0
75°	4477.9	1192.7	18.1	10.8	3.6	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	2049.2	357.8	10.8	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	412.0	94.0	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	86.7	18.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	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)