

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: P400193

Luminaire Tested: **ARCH-L-PA3-250-722-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-250-722-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1070mA 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: 17045 lumens  
Efficiency: N/A  
Efficacy: 67.9 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

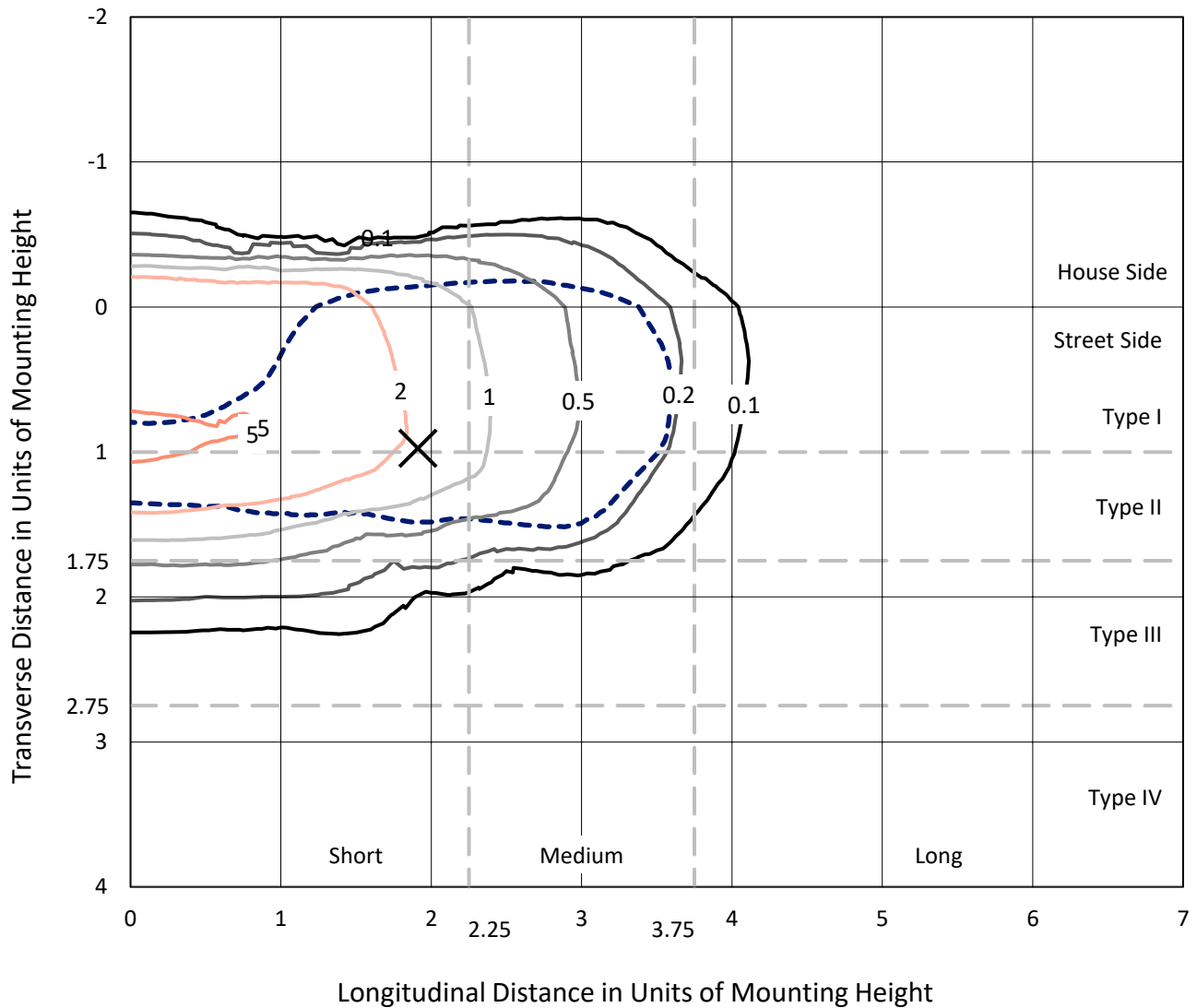
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

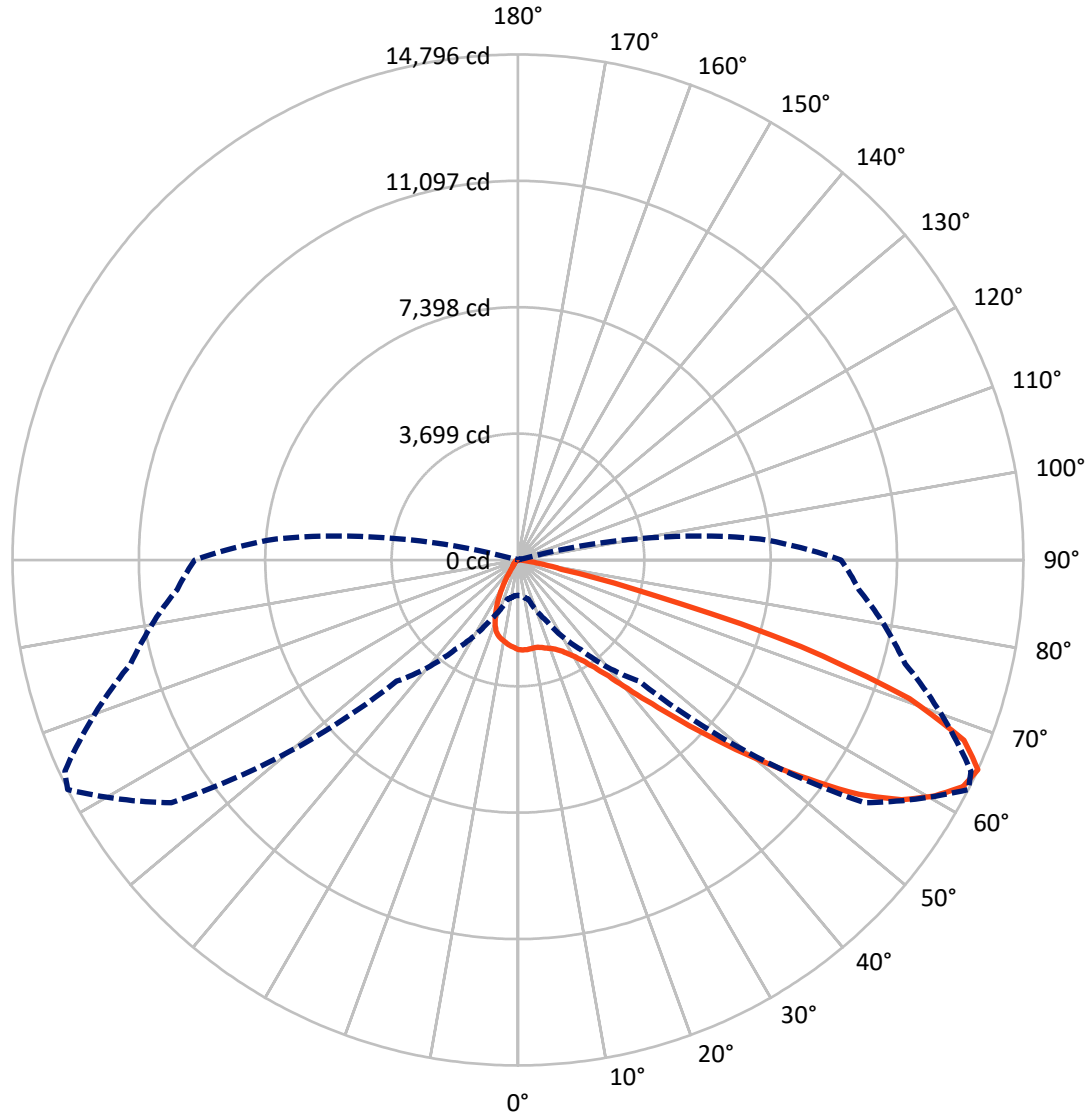
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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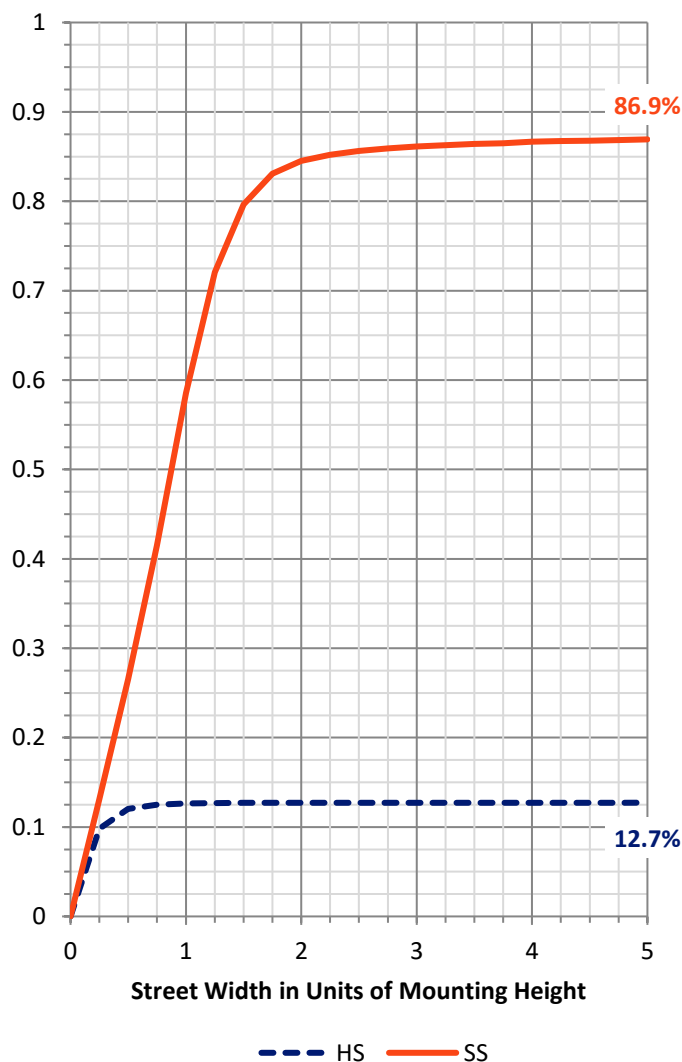
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2193.7	0.0	2193.7
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	14851.3	0.0	14851.3
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	17045.0	0.0	17045.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.6	1.4
10°-20°	591.1	3.5
20°-30°	876.1	5.1
30°-40°	1626.6	9.5
40°-50°	3445.9	20.2
50°-60°	4764.8	28.0
60°-70°	3814.4	22.4
70°-80°	1584.8	9.3
80°-90°	101.8	0.6
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°	17045.0	100.0
0°-180°	17045.0	100.0

**Coefficient of Utilization**

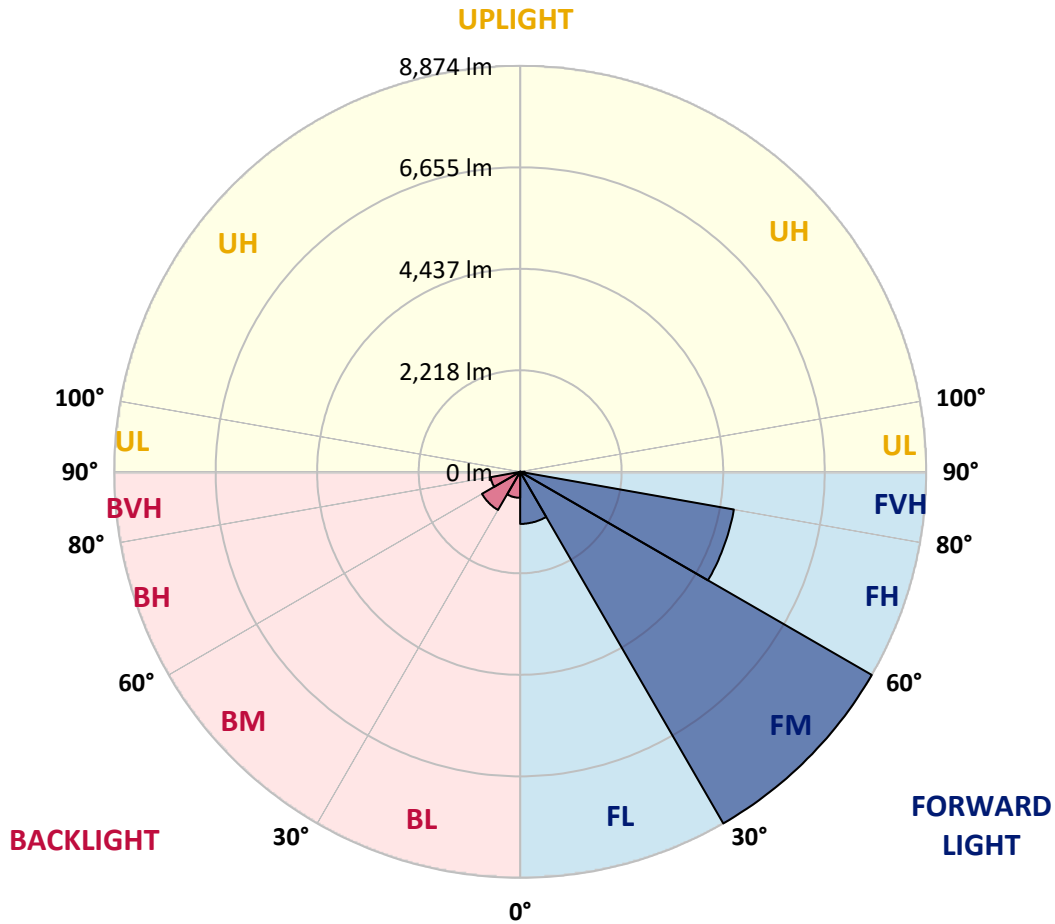


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.2	6.7			
FM (30°-60°)	8873.7	52.1			
FH (60°-80°)	4742.3	27.8			G2/5000
FVH (80°-90°)	97.1	0.6			G1/100
BL (0°-30°)	568.5	3.3	B2/1000		
BM (30°-60°)	963.6	5.7	B1/1000		
BH (60°-80°)	656.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.6	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°	63°	65°	75°	85°
0°	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8
2.5°	2670.8	2664.4	2658.0	2654.8	2654.8	2651.5	2638.7	2635.4	2629.0	2622.6	2616.1
5°	2645.1	2635.4	2632.2	2635.4	2638.7	2645.1	2638.7	2638.7	2632.2	2625.8	2612.9
7.5°	2580.7	2574.3	2577.5	2587.2	2590.4	2612.9	2616.1	2625.8	2625.8	2619.4	2609.7
10°	2503.5	2500.3	2500.3	2516.4	2532.5	2564.7	2587.2	2612.9	2616.1	2616.1	2600.0
12.5°	2445.6	2442.4	2452.0	2471.3	2503.5	2545.3	2584.0	2622.6	2629.0	2632.2	2606.5
15°	2410.2	2410.2	2423.1	2461.7	2506.7	2564.7	2609.7	2661.2	2667.6	2664.4	2629.0
17.5°	2378.0	2381.2	2407.0	2471.3	2522.8	2600.0	2654.8	2712.7	2715.9	2712.7	2654.8
20°	2365.1	2371.6	2410.2	2493.9	2551.8	2638.7	2709.5	2767.4	2770.6	2757.7	2680.5
22.5°	2400.5	2403.8	2452.0	2542.1	2596.8	2693.4	2783.5	2838.2	2841.4	2822.1	2719.1
25°	2522.8	2522.8	2564.7	2641.9	2690.1	2786.7	2883.2	2947.6	2947.6	2925.1	2806.0
27.5°	2809.2	2783.5	2773.8	2796.3	2812.4	2915.4	3018.4	3098.8	3095.6	3063.4	2918.6
30°	3362.7	3298.3	3195.4	3079.5	3021.6	3092.4	3188.9	3291.9	3288.7	3237.2	3057.0
32.5°	4292.7	4199.3	3954.8	3649.1	3401.3	3320.9	3411.0	3523.6	3526.8	3465.7	3279.0
35°	5595.9	5447.9	5010.2	4585.5	4019.1	3713.4	3739.2	3861.5	3900.1	3867.9	3652.3
37.5°	6850.9	6715.7	6297.4	5708.5	4939.4	4315.2	4205.8	4312.0	4357.0	4357.0	4128.5
40°	8115.5	7957.8	7587.8	6995.7	6184.8	5254.8	4862.2	4949.1	4997.4	5007.0	4707.8
42.5°	9129.1	9026.2	8743.0	8282.8	7523.4	6902.4	5808.3	5760.0	5805.1	5769.7	5380.3
45°	9830.6	9750.2	9553.9	9380.1	9010.1	8697.9	7072.9	6747.9	6776.9	6654.6	6136.5
47.5°	9975.4	9885.3	9843.5	10084.8	10348.7	10425.9	8627.1	7922.4	7893.5	7623.2	6921.7
50°	9344.7	9354.4	9508.8	10197.5	11298.0	11993.0	10429.2	9248.2	9142.0	8540.3	7652.1
52.5°	7983.6	8138.0	8527.4	9644.0	11587.6	13132.2	12231.2	10654.4	10490.3	9431.6	8199.2
55°	6245.9	6445.4	7085.8	8369.7	10982.6	13640.6	13750.0	12115.3	11742.1	10100.9	8623.9
57.5°	4643.4	4704.5	5451.1	6622.4	9550.7	13141.8	14528.7	13241.6	12762.1	10635.1	9045.5
60°	2892.9	2931.5	3719.9	5042.4	7233.8	11298.0	14528.7	14017.1	13560.2	11114.6	9431.6
62.5°	1798.8	1811.7	2107.7	3456.0	4916.9	8379.4	13927.0	14618.8	14252.0	11458.9	9763.1
65°	1036.2	1049.0	1187.4	1953.3	3198.6	5016.7	12388.8	14795.8	14631.7	11732.4	10020.5
67.5°	756.2	762.6	817.3	1097.3	2091.6	2577.5	9306.1	14084.7	14290.6	11867.5	10014.0
70°	656.4	666.1	736.9	856.0	1509.2	1583.2	4736.7	12163.6	12739.6	11674.5	9714.8
72.5°	505.2	518.1	624.3	804.5	1107.0	1139.1	1715.1	8656.1	9528.1	10467.8	8894.2
75°	347.5	360.4	466.6	662.9	913.9	852.7	942.8	3983.7	5026.3	7021.4	6770.4
77.5°	222.0	225.3	292.8	482.7	788.4	605.0	646.8	1300.0	1824.5	3176.0	3195.4
80°	148.0	151.2	180.2	312.1	540.6	559.9	399.0	601.7	659.7	926.7	643.6
82.5°	90.1	90.1	122.3	196.3	328.2	463.4	260.6	315.4	337.9	357.2	167.3
85°	35.4	35.4	74.0	128.7	205.9	215.6	164.1	183.4	193.1	209.2	77.2
87.5°	9.7	9.7	41.8	70.8	90.1	99.8	99.8	90.1	96.5	119.1	38.6
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°	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8
2.5°	2612.9	2603.3	2590.4	2577.5	2564.7	2555.0	2545.3	2545.3	2538.9	2529.3	2522.8
5°	2606.5	2590.4	2561.4	2538.9	2503.5	2477.8	2458.5	2442.4	2432.7	2410.2	2407.0
7.5°	2596.8	2577.5	2535.7	2490.6	2432.7	2387.7	2342.6	2310.4	2278.3	2252.5	2246.1
10°	2580.7	2558.2	2497.1	2432.7	2352.3	2268.6	2162.4	2040.1	1927.5	1863.2	1843.8
12.5°	2580.7	2551.8	2471.3	2384.5	2268.6	2062.7	1792.4	1522.1	1312.9	1219.6	1193.8
15°	2596.8	2558.2	2452.0	2333.0	2117.4	1699.0	1261.4	904.2	675.8	605.0	588.9
17.5°	2612.9	2558.2	2423.1	2262.2	1840.6	1232.4	717.6	476.2	402.2	386.1	386.1
20°	2619.4	2551.8	2384.5	2130.2	1470.6	765.9	428.0	357.2	328.2	318.6	318.6
22.5°	2645.1	2555.0	2355.5	1940.4	1068.3	450.5	337.9	299.3	270.3	260.6	260.6
25°	2709.5	2593.6	2361.9	1699.0	685.4	341.1	286.4	247.8	218.8	205.9	205.9
27.5°	2812.4	2680.5	2397.3	1419.1	431.2	292.8	241.3	199.5	177.0	164.1	164.1
30°	2928.3	2777.0	2413.4	1097.3	321.8	247.8	196.3	157.7	141.6	131.9	128.7
32.5°	3131.0	2944.4	2400.5	753.0	263.9	209.2	157.7	125.5	112.6	109.4	109.4
35°	3456.0	3237.2	2374.8	473.0	218.8	167.3	125.5	103.0	93.3	90.1	86.9
37.5°	3896.9	3665.2	2297.6	312.1	180.2	131.9	103.0	86.9	77.2	74.0	74.0
40°	4434.2	4154.3	2149.5	238.1	154.5	106.2	86.9	74.0	67.6	64.4	64.4
42.5°	5048.9	4698.1	1914.6	205.9	128.7	90.1	74.0	61.1	57.9	54.7	54.7
45°	5721.4	5267.7	1589.6	183.4	109.4	74.0	61.1	54.7	48.3	48.3	45.1
47.5°	6435.8	5840.5	1222.8	160.9	93.3	64.4	54.7	45.1	41.8	38.6	38.6
50°	7124.4	6352.1	859.2	138.4	77.2	54.7	45.1	38.6	35.4	32.2	32.2
52.5°	7610.3	6661.0	608.2	119.1	64.4	48.3	35.4	29.0	25.7	25.7	25.7
55°	7999.7	6854.1	424.8	99.8	54.7	41.8	29.0	22.5	22.5	19.3	19.3
57.5°	8366.5	6979.6	312.1	83.7	45.1	32.2	22.5	16.1	16.1	12.9	12.9
60°	8746.2	7047.2	238.1	67.6	38.6	25.7	16.1	12.9	9.7	9.7	9.7
62.5°	9129.1	7089.0	183.4	54.7	32.2	19.3	12.9	9.7	6.4	3.2	3.2
65°	9463.8	7101.9	141.6	41.8	25.7	12.9	9.7	3.2	0.0	0.0	0.0
67.5°	9563.5	6953.8	109.4	32.2	19.3	9.7	6.4	0.0	0.0	0.0	0.0
70°	9293.2	6561.3	83.7	25.7	16.1	6.4	3.2	0.0	0.0	0.0	0.0
72.5°	8247.4	5502.6	64.4	16.1	12.9	6.4	3.2	0.0	0.0	0.0	0.0
75°	5901.6	2934.7	45.1	12.9	9.7	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	2715.9	1135.9	32.2	9.7	6.4	3.2	0.0	0.0	0.0	0.0	0.0
80°	531.0	283.2	12.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	122.3	48.3	6.4	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.8	16.1	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.1	6.4	3.2	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)