

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: P400314

Luminaire Tested: **ARCH-L-PA3-260-760-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400314  
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-PA3-260-760-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 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: 24764 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G5

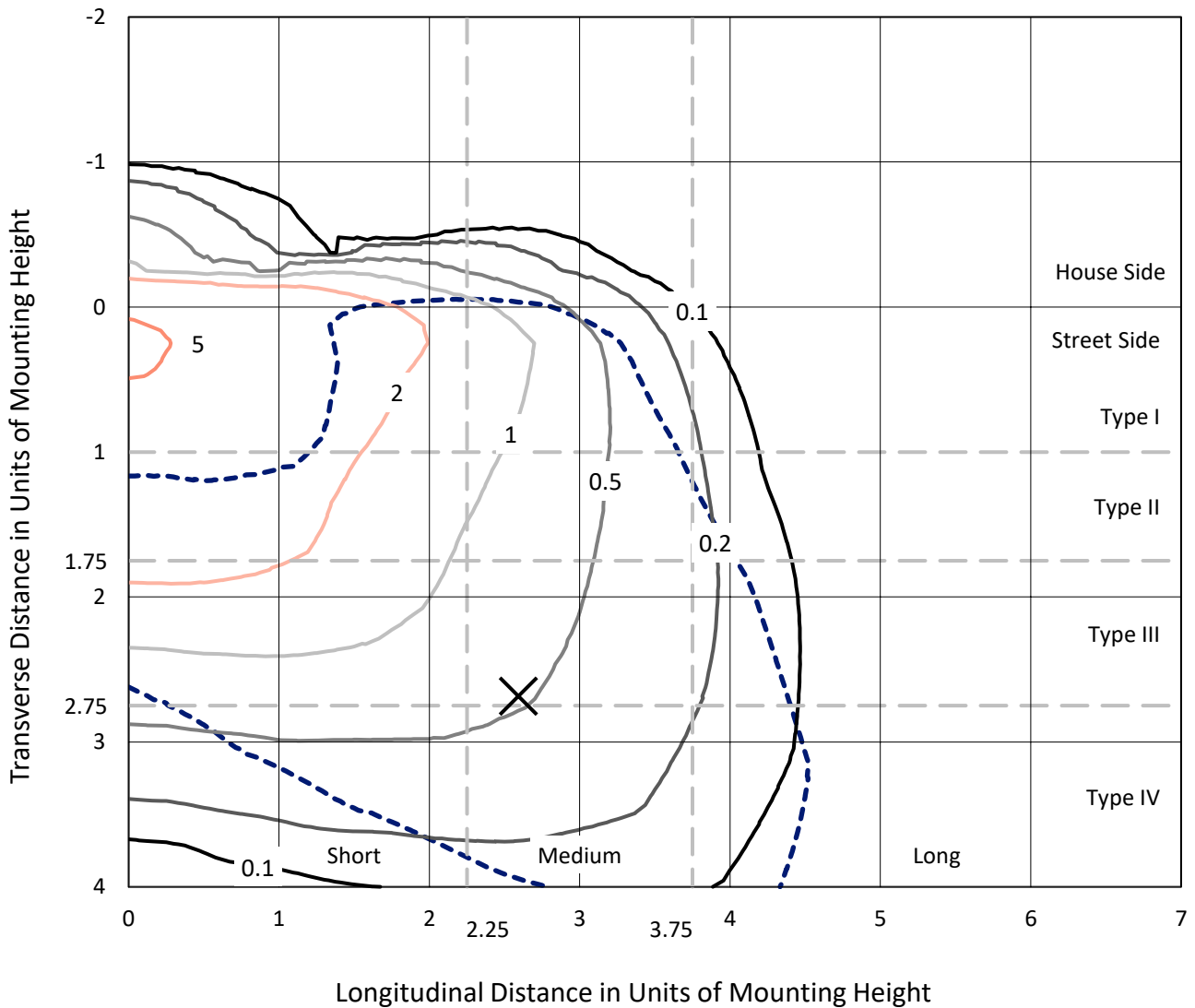
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

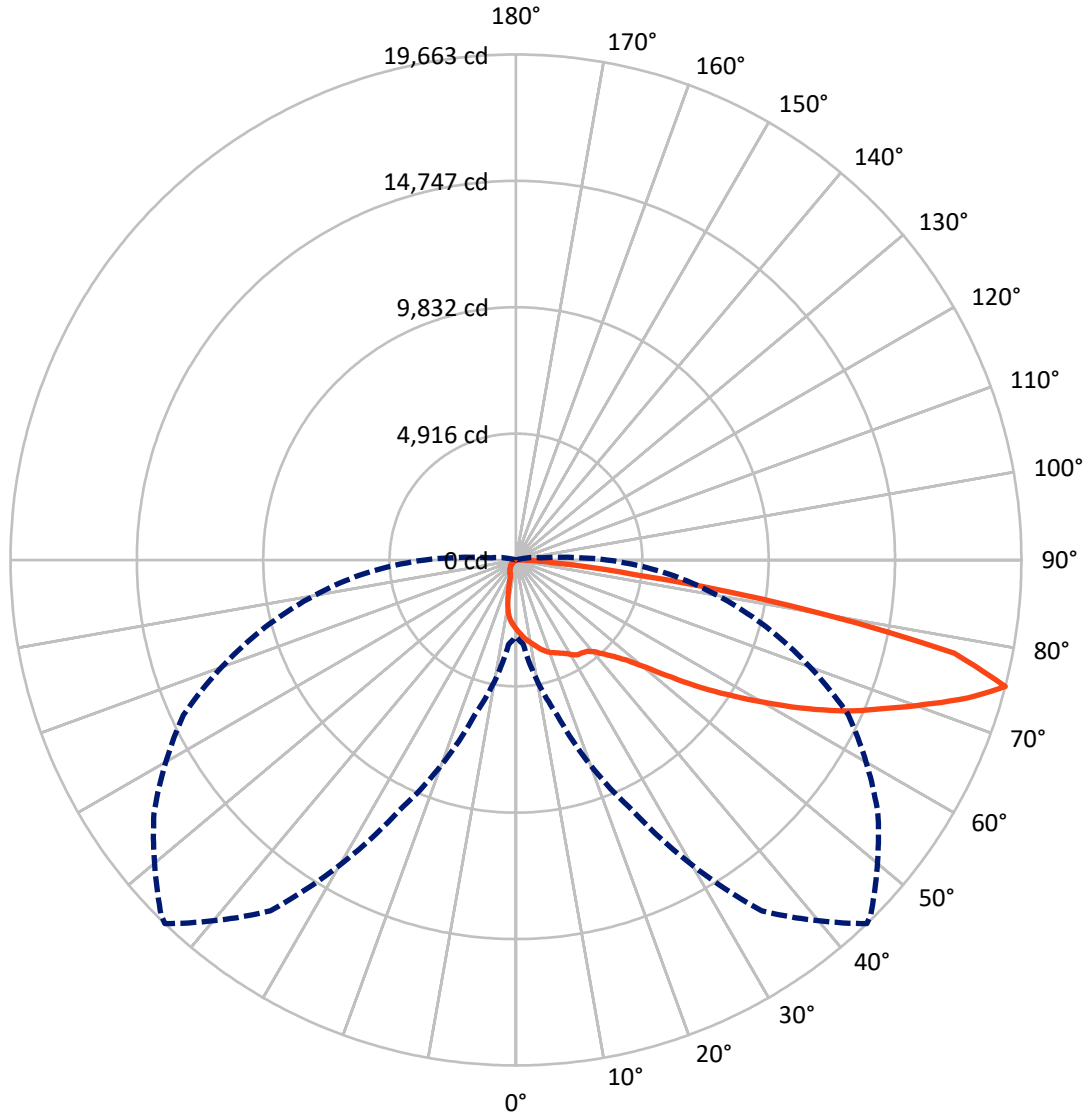
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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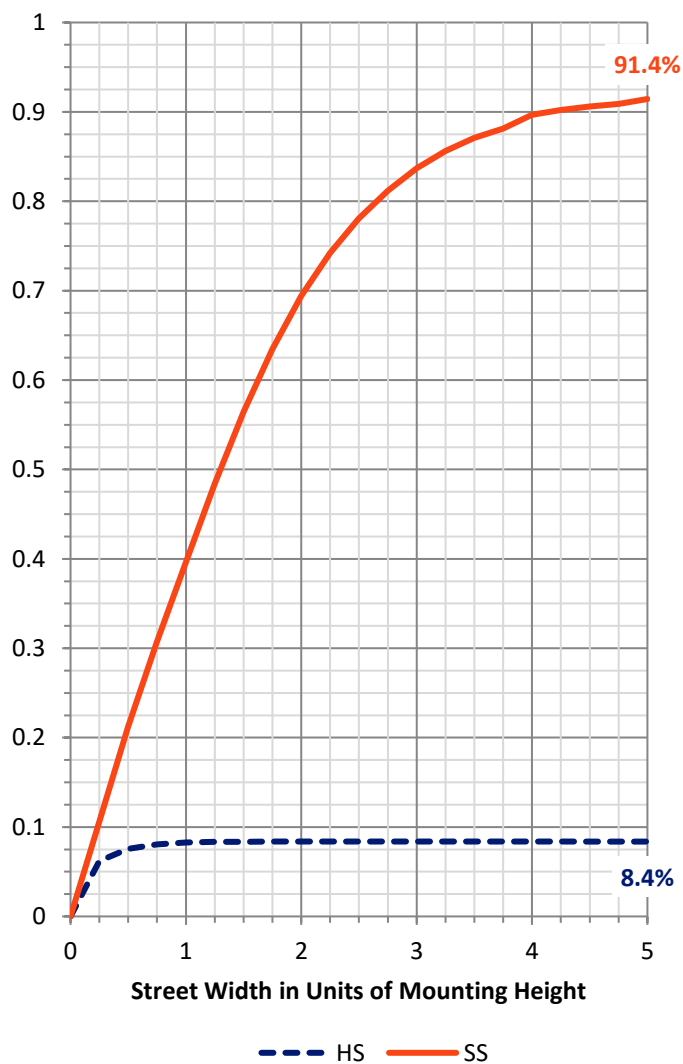
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2088.4	0.0	2088.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	22675.6	0.0	22675.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	24764.0	0.0	24764.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.2	1.0
10°-20°	712.3	2.9
20°-30°	1175.5	4.7
30°-40°	1706.1	6.9
40°-50°	2773.4	11.2
50°-60°	4889.2	19.7
60°-70°	7026.8	28.4
70°-80°	5626.9	22.7
80°-90°	599.5	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°	24764.0	100.0
0°-180°	24764.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P400314

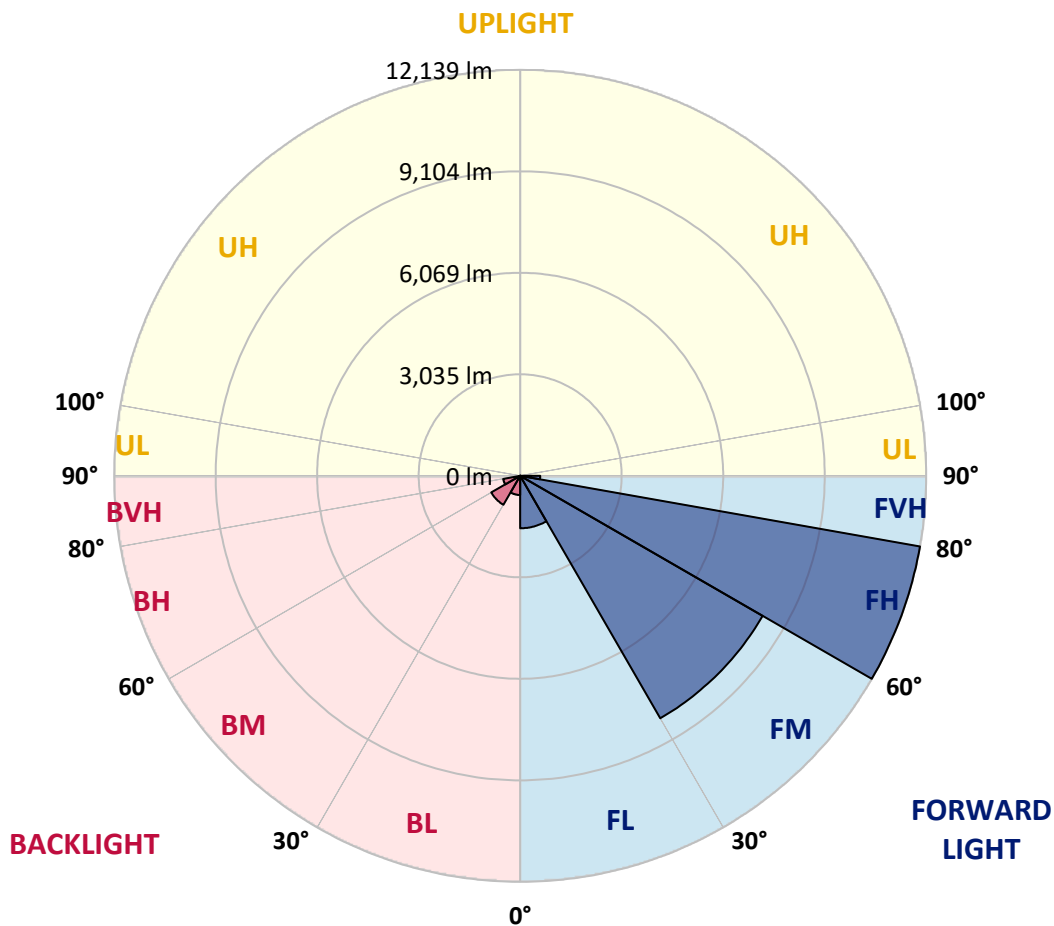
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.3	6.3			
FM (30°-60°)	8370.5	33.8			
FH (60°-80°)	12138.9	49.0			G5
FVH (80°-90°)	598.0	2.4			G4/750
BL (0°-30°)	573.8	2.3	B2/1000		
BM (30°-60°)	998.3	4.0	B1/1000		
BH (60°-80°)	514.8	2.1	B2/1000		G2/1000
BVH (80°-90°)	1.5	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-G5**

Type IV Medium





REPORT NUMBER: P400314

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5
2.5°	2937.6	2933.0	2919.3	2896.5	2873.6	2850.8	2846.2	2809.7	2768.6	2736.6	2709.2
5°	3198.0	3193.4	3170.6	3120.3	3070.1	3010.7	3006.1	2919.3	2841.7	2754.9	2681.8
7.5°	3467.6	3458.4	3417.3	3339.6	3252.8	3161.5	3152.3	3024.4	2910.2	2796.0	2690.9
10°	3677.7	3668.6	3609.2	3517.8	3399.0	3284.8	3271.1	3138.6	3024.4	2878.2	2736.6
12.5°	3883.3	3865.0	3787.4	3686.9	3540.7	3431.0	3417.3	3280.2	3143.2	2992.4	2818.8
15°	4075.2	4052.3	3979.2	3851.3	3696.0	3590.9	3581.8	3435.6	3294.0	3120.3	2928.5
17.5°	4207.7	4198.5	4111.7	3970.1	3819.3	3732.5	3723.4	3572.6	3431.0	3248.3	3042.7
20°	4276.2	4276.2	4194.0	4038.6	3901.6	3842.2	3828.5	3686.9	3549.8	3376.2	3161.5
22.5°	4289.9	4303.6	4239.7	4070.6	3970.1	3919.8	3910.7	3787.4	3654.9	3495.0	3294.0
25°	4317.3	4317.3	4285.3	4102.6	4029.5	4015.8	4011.2	3901.6	3782.8	3622.9	3426.4
27.5°	4349.3	4349.3	4326.5	4148.3	4120.9	4116.3	4111.7	4061.5	3965.5	3778.2	3581.8
30°	4431.5	4436.1	4417.8	4239.7	4221.4	4271.6	4280.8	4253.4	4134.6	3901.6	3741.7
32.5°	4637.1	4596.0	4545.7	4303.6	4335.6	4399.6	4404.1	4349.3	4221.4	4034.1	3933.6
35°	5153.4	4911.2	4682.8	4358.4	4372.1	4436.1	4445.2	4440.7	4363.0	4203.1	4152.8
37.5°	5633.1	5290.4	4966.1	4486.4	4440.7	4509.2	4527.5	4605.1	4545.7	4436.1	4449.8
40°	5911.8	5779.3	5550.8	4838.1	4577.7	4682.8	4701.1	4819.9	4797.0	4751.3	4838.1
42.5°	6770.6	6779.8	6533.1	5363.5	4829.0	4998.0	5020.9	5116.8	5148.8	5171.6	5381.8
45°	7766.6	7798.6	7739.2	6309.2	5304.1	5359.0	5390.9	5518.9	5637.6	5783.8	6167.6
47.5°	8963.6	8936.2	8716.9	7465.1	6131.0	5825.0	5847.8	6094.5	6300.1	6619.9	7168.1
50°	10023.5	10092.0	9676.3	8543.3	7296.0	6560.5	6537.7	6779.8	7149.8	7597.6	8287.4
52.5°	11092.5	10992.0	10430.1	9612.3	8675.8	7561.0	7492.5	7625.0	8145.8	8675.8	9383.9
55°	11375.8	11384.9	11193.0	10781.9	9827.0	8776.3	8662.0	8652.9	9301.6	9662.6	10535.2
57.5°	11933.2	11956.0	12001.7	12083.9	11631.6	9991.5	9872.7	9744.8	10375.3	10585.4	11691.0
60°	12499.7	12527.1	12805.8	13248.9	12947.4	11302.7	11174.8	10873.2	11225.0	11508.3	12906.3
62.5°	12426.6	12618.4	13427.1	14308.8	14272.3	12741.8	12581.9	11855.5	12079.3	12326.1	14021.0
65°	11220.5	11426.0	13244.3	14601.2	15601.7	14162.6	13902.2	12869.7	12883.4	13180.4	15094.6
67.5°	10142.3	10366.1	12102.2	14477.9	16478.9	15437.3	15167.7	13888.5	13673.8	14167.2	15670.3
70°	9520.9	9744.8	11193.0	14094.1	16725.6	16849.0	16616.0	15053.5	14614.9	15067.2	15026.1
72.5°	7451.4	7803.2	10032.6	13363.1	16990.6	18361.2	18178.4	16529.2	15414.4	14126.1	11439.7
75°	2969.6	3294.0	6263.5	10754.5	16657.1	19663.2	19521.6	17191.6	14267.7	10087.4	5856.9
77.5°	895.4	959.4	1740.6	5317.8	12211.8	17433.7	17388.0	14455.0	10096.6	4682.8	1599.0
80°	297.0	328.9	534.5	1466.5	5573.7	10891.5	11097.1	9210.3	4586.9	1073.6	324.4
82.5°	123.4	137.1	269.5	589.3	1973.6	4691.9	4623.4	4125.4	1599.0	667.0	118.8
85°	32.0	41.1	123.4	338.1	721.8	1617.3	1699.5	1384.3	904.6	552.8	36.5
87.5°	0.0	0.0	59.4	137.1	324.4	488.8	511.7	420.3	511.7	415.7	18.3
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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CATALOG NUMBER: ARCH-L-PA3-260-760-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5
2.5°	2686.3	2663.5	2622.4	2595.0	2558.4	2549.3	2531.0	2508.2	2503.6	2480.7	2485.3
5°	2640.6	2604.1	2531.0	2480.7	2421.4	2403.1	2371.1	2348.3	2330.0	2298.0	2302.6
7.5°	2631.5	2576.7	2476.2	2380.2	2284.3	2215.8	2119.8	2042.2	1978.2	1909.7	1923.4
10°	2663.5	2595.0	2453.3	2320.8	2147.2	1927.9	1676.7	1512.2	1430.0	1347.7	1356.9
12.5°	2727.4	2645.2	2462.5	2261.5	1909.7	1535.0	1187.8	964.0	904.6	868.0	872.6
15°	2823.4	2722.9	2489.9	2147.2	1589.9	1110.2	790.4	694.4	717.3	731.0	731.0
17.5°	2923.9	2809.7	2512.7	1941.7	1229.0	776.7	644.2	635.0	667.0	699.0	699.0
20°	3047.2	2901.1	2517.3	1681.2	886.3	630.5	607.6	607.6	630.5	667.0	667.0
22.5°	3166.0	3001.6	2476.2	1384.3	676.2	584.8	584.8	584.8	598.5	635.0	639.6
25°	3307.7	3124.9	2389.4	1069.0	580.2	557.4	557.4	561.9	571.1	603.1	607.6
27.5°	3458.4	3252.8	2243.2	781.2	530.0	525.4	530.0	534.5	539.1	571.1	580.2
30°	3632.0	3394.5	2055.9	584.8	484.3	484.3	498.0	507.1	507.1	534.5	543.7
32.5°	3833.0	3581.8	1832.0	484.3	438.6	434.0	456.9	470.6	470.6	493.4	502.5
35°	4084.3	3773.7	1562.5	429.4	402.0	392.9	402.0	424.9	434.0	452.3	456.9
37.5°	4417.8	4002.1	1274.6	397.5	374.6	356.3	356.3	360.9	379.2	397.5	402.0
40°	4842.7	4253.4	991.4	374.6	347.2	328.9	315.2	310.7	306.1	319.8	328.9
42.5°	5377.2	4536.6	740.1	351.8	324.4	297.0	278.7	260.4	237.6	233.0	237.6
45°	6062.5	4883.8	548.2	333.5	310.7	269.5	237.6	205.6	164.5	150.8	155.3
47.5°	6871.2	5244.7	429.4	315.2	301.5	237.6	196.4	141.6	100.5	91.4	95.9
50°	7730.1	5592.0	365.5	292.4	283.3	205.6	141.6	86.8	59.4	59.4	64.0
52.5°	8461.0	5788.4	333.5	274.1	255.8	169.0	91.4	50.3	36.5	36.5	41.1
55°	9169.2	5893.5	310.7	255.8	219.3	118.8	50.3	32.0	22.8	22.8	22.8
57.5°	9900.1	5939.2	283.3	233.0	173.6	73.1	27.4	18.3	13.7	13.7	13.7
60°	10548.9	5852.4	242.1	191.9	114.2	36.5	13.7	13.7	9.1	4.6	4.6
62.5°	11092.5	5687.9	169.0	137.1	68.5	18.3	9.1	4.6	0.0	0.0	0.0
65°	11426.0	5422.9	109.6	91.4	41.1	13.7	4.6	0.0	0.0	0.0	0.0
67.5°	11330.1	4924.9	68.5	59.4	18.3	9.1	4.6	0.0	0.0	0.0	0.0
70°	10224.5	4038.6	50.3	36.5	13.7	4.6	0.0	0.0	0.0	0.0	0.0
72.5°	7369.1	2732.0	36.5	22.8	9.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3545.2	973.1	22.8	18.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	868.0	214.7	13.7	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	191.9	41.1	9.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	64.0	18.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.8	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	4.6	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)