

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: P400215

Luminaire Tested: **ARCH-L-PA3-250-730-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400215  
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-PA3-250-730-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1070mA 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: 22031 lumens  
Efficiency: N/A  
Efficacy: 87.8 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

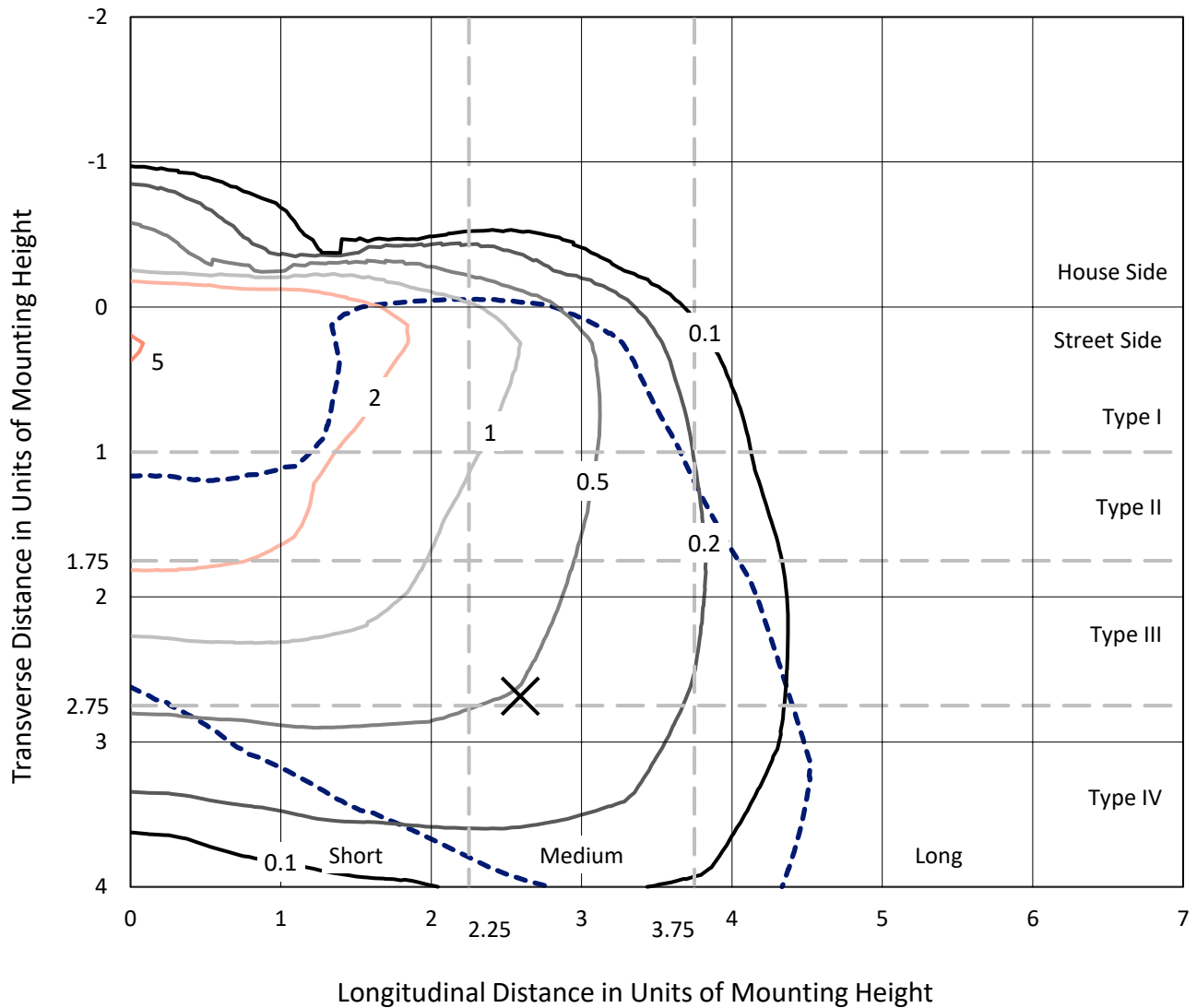
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

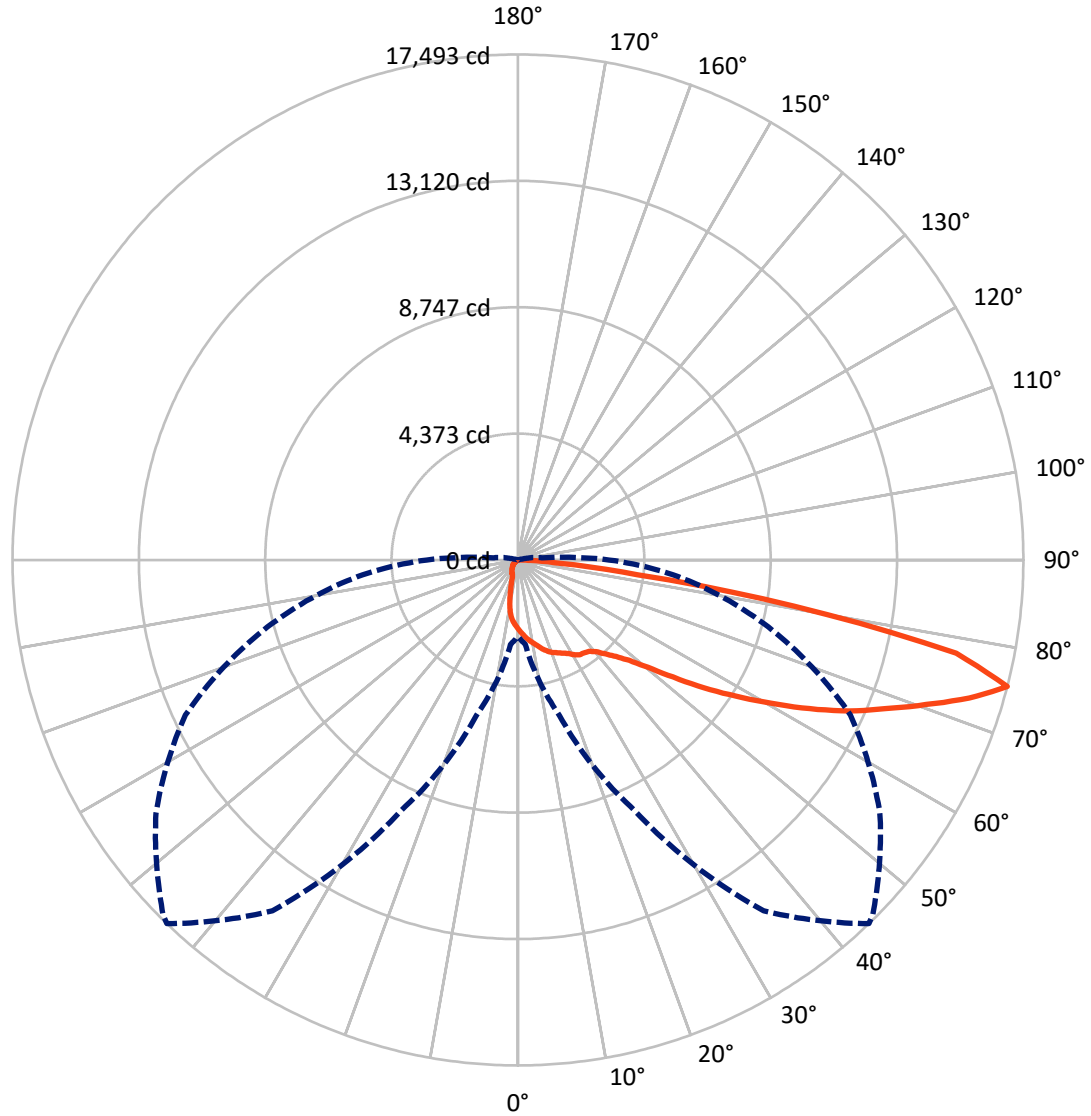
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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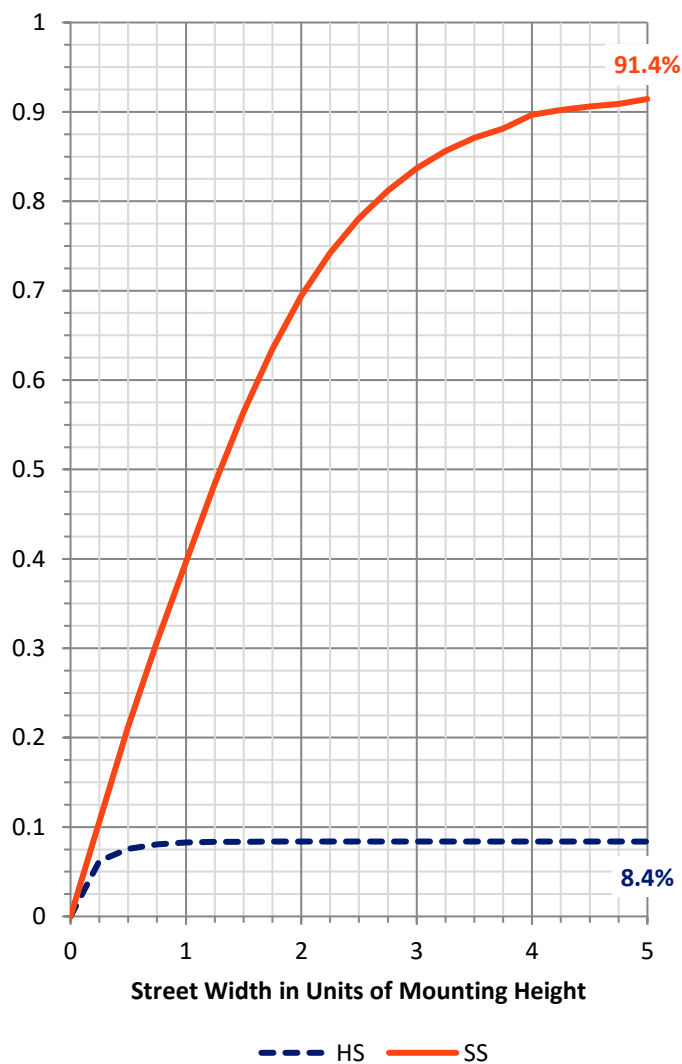
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1857.9	0.0	1857.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	20173.1	0.0	20173.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	22031.0	0.0	22031.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.1	1.0
10°-20°	633.7	2.9
20°-30°	1045.8	4.7
30°-40°	1517.8	6.9
40°-50°	2467.3	11.2
50°-60°	4349.6	19.7
60°-70°	6251.3	28.4
70°-80°	5005.9	22.7
80°-90°	533.3	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°	22031.0	100.0
0°-180°	22031.0	100.0

**Coefficient of Utilization**



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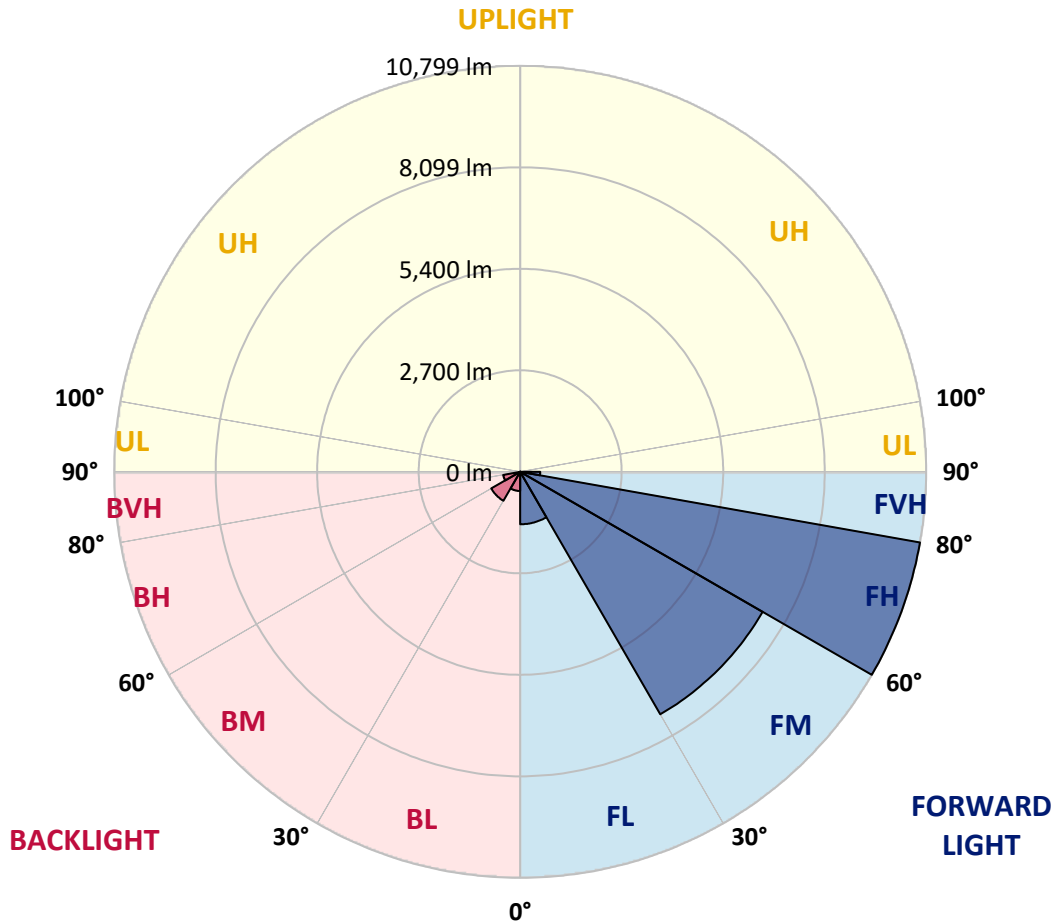
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1395.2	6.3			
FM (30°-60°)	7446.7	33.8			
FH (60°-80°)	10799.2	49.0			G4/12000
FVH (80°-90°)	532.0	2.4			G4/750
BL (0°-30°)	510.4	2.3	B2/1000		
BM (30°-60°)	888.1	4.0	B1/1000		
BH (60°-80°)	458.0	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	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°	44°	45°	55°	65°	75°	85°
0°	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0
2.5°	2613.4	2609.3	2597.1	2576.8	2556.5	2536.2	2532.1	2499.6	2463.0	2434.6	2410.2
5°	2845.1	2841.0	2820.7	2776.0	2731.3	2678.4	2674.4	2597.1	2528.1	2450.8	2385.8
7.5°	3084.9	3076.7	3040.2	2971.1	2893.8	2812.6	2804.4	2690.6	2589.0	2487.4	2393.9
10°	3271.8	3263.7	3210.9	3129.6	3023.9	2922.3	2910.1	2792.2	2690.6	2560.6	2434.6
12.5°	3454.7	3438.5	3369.4	3280.0	3149.9	3052.4	3040.2	2918.2	2796.3	2662.2	2507.7
15°	3625.4	3605.1	3540.1	3426.3	3288.1	3194.6	3186.5	3056.4	2930.4	2776.0	2605.3
17.5°	3743.3	3735.2	3658.0	3532.0	3397.8	3320.6	3312.5	3178.4	3052.4	2889.8	2706.9
20°	3804.3	3804.3	3731.1	3592.9	3471.0	3418.2	3406.0	3280.0	3158.0	3003.6	2812.6
22.5°	3816.5	3828.7	3771.8	3621.4	3532.0	3487.2	3479.1	3369.4	3251.5	3109.3	2930.4
25°	3840.8	3840.8	3812.4	3649.8	3584.8	3572.6	3568.5	3471.0	3365.3	3223.1	3048.3
27.5°	3869.3	3869.3	3849.0	3690.5	3666.1	3662.0	3658.0	3613.2	3527.9	3361.3	3186.5
30°	3942.5	3946.5	3930.3	3771.8	3755.5	3800.2	3808.3	3783.9	3678.3	3471.0	3328.7
32.5°	4125.4	4088.8	4044.1	3828.7	3857.1	3914.0	3918.1	3869.3	3755.5	3588.9	3499.4
35°	4584.6	4369.2	4166.0	3877.4	3889.6	3946.5	3954.7	3950.6	3881.5	3739.2	3694.5
37.5°	5011.4	4706.6	4418.0	3991.2	3950.6	4011.6	4027.8	4096.9	4044.1	3946.5	3958.7
40°	5259.3	5141.5	4938.2	4304.2	4072.5	4166.0	4182.3	4287.9	4267.6	4227.0	4304.2
42.5°	6023.4	6031.6	5812.1	4771.6	4296.1	4446.4	4466.8	4552.1	4580.6	4600.9	4787.9
45°	6909.5	6937.9	6885.1	5612.9	4718.8	4767.5	4796.0	4909.8	5015.5	5145.5	5486.9
47.5°	7974.3	7949.9	7754.9	6641.2	5454.4	5182.1	5202.4	5421.9	5604.8	5889.3	6377.0
50°	8917.3	8978.2	8608.4	7600.4	6490.8	5836.5	5816.1	6031.6	6360.8	6759.1	7372.8
52.5°	9868.3	9778.9	9279.0	8551.5	7718.3	6726.6	6665.6	6783.5	7246.8	7718.3	8348.3
55°	10120.3	10128.5	9957.8	9592.0	8742.5	7807.7	7706.1	7698.0	8275.1	8596.2	9372.5
57.5°	10616.2	10636.5	10677.2	10750.3	10347.9	8888.8	8783.1	8669.3	9230.2	9417.2	10400.8
60°	11120.2	11144.6	11392.5	11786.7	11518.5	10055.3	9941.5	9673.3	9986.2	10238.2	11481.9
62.5°	11055.1	11225.8	11945.2	12729.7	12697.2	11335.6	11193.3	10547.1	10746.3	10965.7	12473.6
65°	9982.1	10165.0	11782.7	12989.8	13879.9	12599.6	12367.9	11449.4	11461.6	11725.8	13428.7
67.5°	9022.9	9222.1	10766.6	12880.1	14660.3	13733.6	13493.8	12355.7	12164.7	12603.7	13940.9
70°	8470.2	8669.3	9957.8	12538.6	14879.7	14989.5	14782.2	13392.2	13002.0	13404.4	13367.8
72.5°	6629.0	6942.0	8925.4	11888.3	15115.5	16334.8	16172.2	14705.0	13713.3	12567.1	10177.2
75°	2641.9	2930.4	5572.3	9567.6	14818.8	17493.1	17367.1	15294.3	12693.1	8974.2	5210.5
77.5°	796.6	853.5	1548.5	4731.0	10864.1	15509.7	15469.1	12859.7	8982.3	4166.0	1422.5
80°	264.2	292.6	475.5	1304.7	4958.6	9689.5	9872.4	8193.8	4080.6	955.1	288.6
82.5°	109.7	121.9	239.8	524.3	1755.8	4174.1	4113.2	3670.1	1422.5	593.4	105.7
85°	28.5	36.6	109.7	300.8	642.2	1438.8	1512.0	1231.5	804.7	491.8	32.5
87.5°	0.0	0.0	52.8	121.9	288.6	434.9	455.2	373.9	455.2	369.9	16.3
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0	2398.0
2.5°	2389.9	2369.5	2333.0	2308.6	2276.1	2267.9	2251.7	2231.4	2227.3	2207.0	2211.0
5°	2349.2	2316.7	2251.7	2207.0	2154.1	2137.9	2109.4	2089.1	2072.8	2044.4	2048.5
7.5°	2341.1	2292.3	2202.9	2117.5	2032.2	1971.2	1885.9	1816.8	1759.9	1698.9	1711.1
10°	2369.5	2308.6	2182.6	2064.7	1910.3	1715.2	1491.6	1345.3	1272.2	1199.0	1207.1
12.5°	2426.4	2353.3	2190.7	2011.9	1698.9	1365.6	1056.7	857.6	804.7	772.2	776.3
15°	2511.8	2422.4	2215.1	1910.3	1414.4	987.6	703.1	617.8	638.1	650.3	650.3
17.5°	2601.2	2499.6	2235.4	1727.4	1093.3	690.9	573.1	565.0	593.4	621.9	621.9
20°	2710.9	2580.9	2239.5	1495.7	788.5	560.9	540.6	540.6	560.9	593.4	593.4
22.5°	2816.6	2670.3	2202.9	1231.5	601.5	520.2	520.2	520.2	532.4	565.0	569.0
25°	2942.6	2780.0	2125.7	951.1	516.2	495.9	495.9	499.9	508.0	536.5	540.6
27.5°	3076.7	2893.8	1995.6	695.0	471.5	467.4	471.5	475.5	479.6	508.0	516.2
30°	3231.2	3019.8	1829.0	520.2	430.8	430.8	443.0	451.1	451.1	475.5	483.7
32.5°	3410.0	3186.5	1629.8	430.8	390.2	386.1	406.4	418.6	418.6	439.0	447.1
35°	3633.6	3357.2	1390.0	382.1	357.7	349.5	357.7	378.0	386.1	402.4	406.4
37.5°	3930.3	3560.4	1134.0	353.6	333.3	317.0	317.0	321.1	337.3	353.6	357.7
40°	4308.3	3783.9	882.0	333.3	308.9	292.6	280.4	276.4	272.3	284.5	292.6
42.5°	4783.8	4035.9	658.4	313.0	288.6	264.2	247.9	231.7	211.3	207.3	211.3
45°	5393.4	4344.8	487.7	296.7	276.4	239.8	211.3	182.9	146.3	134.1	138.2
47.5°	6112.8	4665.9	382.1	280.4	268.2	211.3	174.8	126.0	89.4	81.3	85.4
50°	6876.9	4974.8	325.2	260.1	252.0	182.9	126.0	77.2	52.8	52.8	56.9
52.5°	7527.3	5149.6	296.7	243.9	227.6	150.4	81.3	44.7	32.5	32.5	36.6
55°	8157.2	5243.1	276.4	227.6	195.1	105.7	44.7	28.5	20.3	20.3	20.3
57.5°	8807.5	5283.7	252.0	207.3	154.4	65.0	24.4	16.3	12.2	12.2	12.2
60°	9384.7	5206.5	215.4	170.7	101.6	32.5	12.2	12.2	8.1	4.1	4.1
62.5°	9868.3	5060.2	150.4	121.9	61.0	16.3	8.1	4.1	0.0	0.0	0.0
65°	10165.0	4824.4	97.5	81.3	36.6	12.2	4.1	0.0	0.0	0.0	0.0
67.5°	10079.7	4381.4	61.0	52.8	16.3	8.1	4.1	0.0	0.0	0.0	0.0
70°	9096.1	3592.9	44.7	32.5	12.2	4.1	0.0	0.0	0.0	0.0	0.0
72.5°	6555.9	2430.5	32.5	20.3	8.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3154.0	865.7	20.3	16.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	772.2	191.0	12.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	170.7	36.6	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.9	16.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.3	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	4.1	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)