

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: P400209

Luminaire Tested: **ARCH-L-PA3-250-730-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)  
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-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24387 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

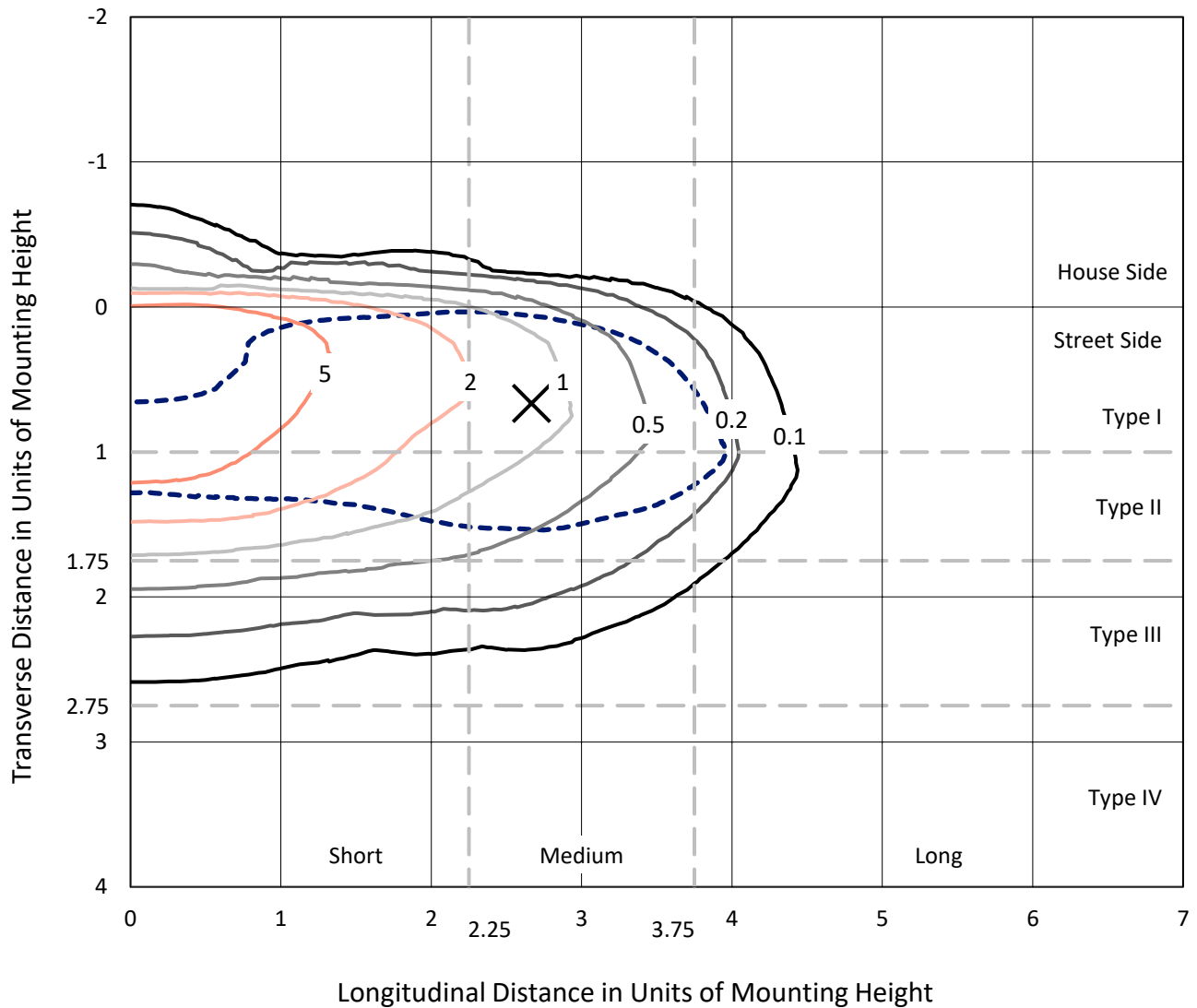
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

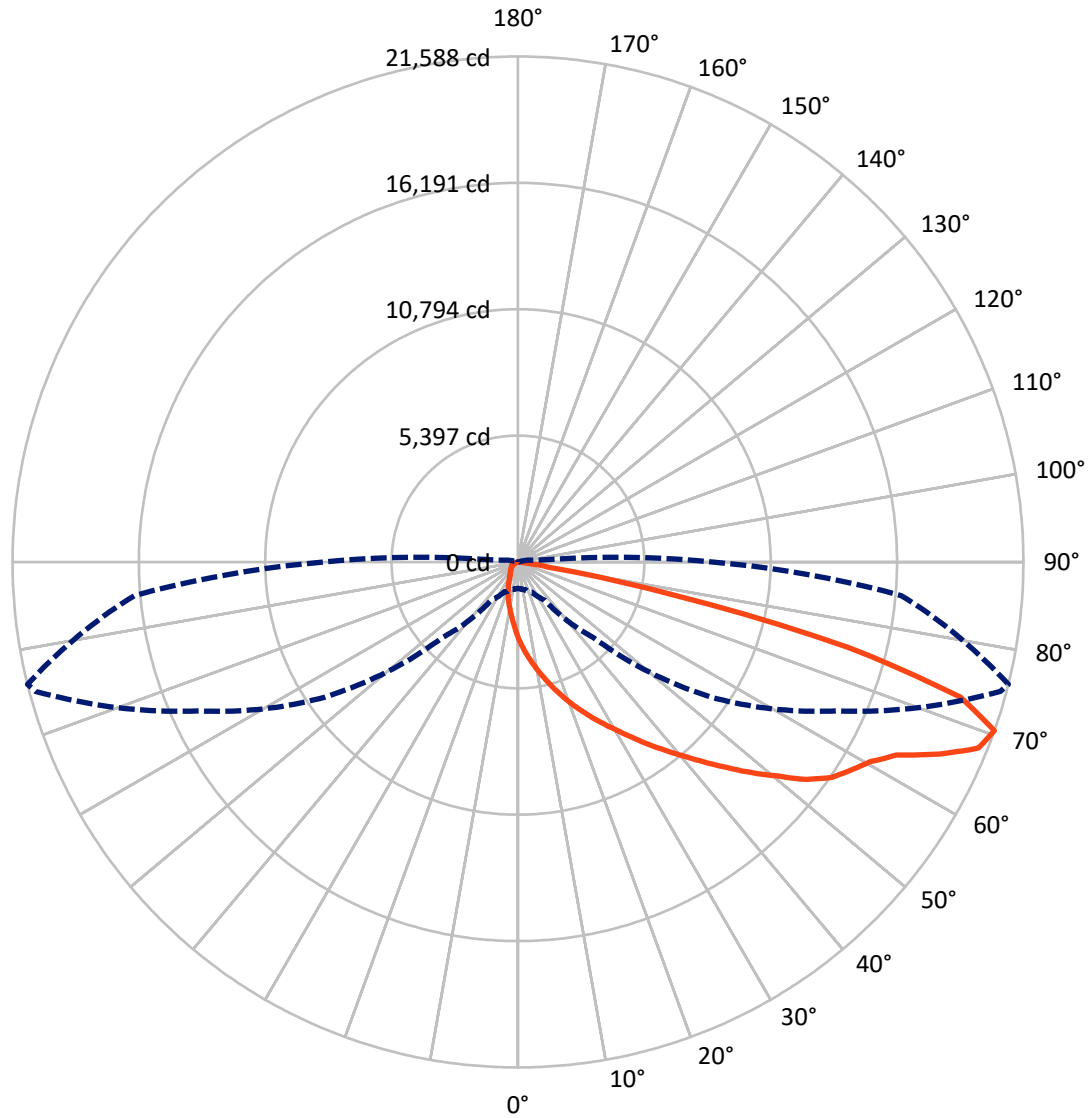
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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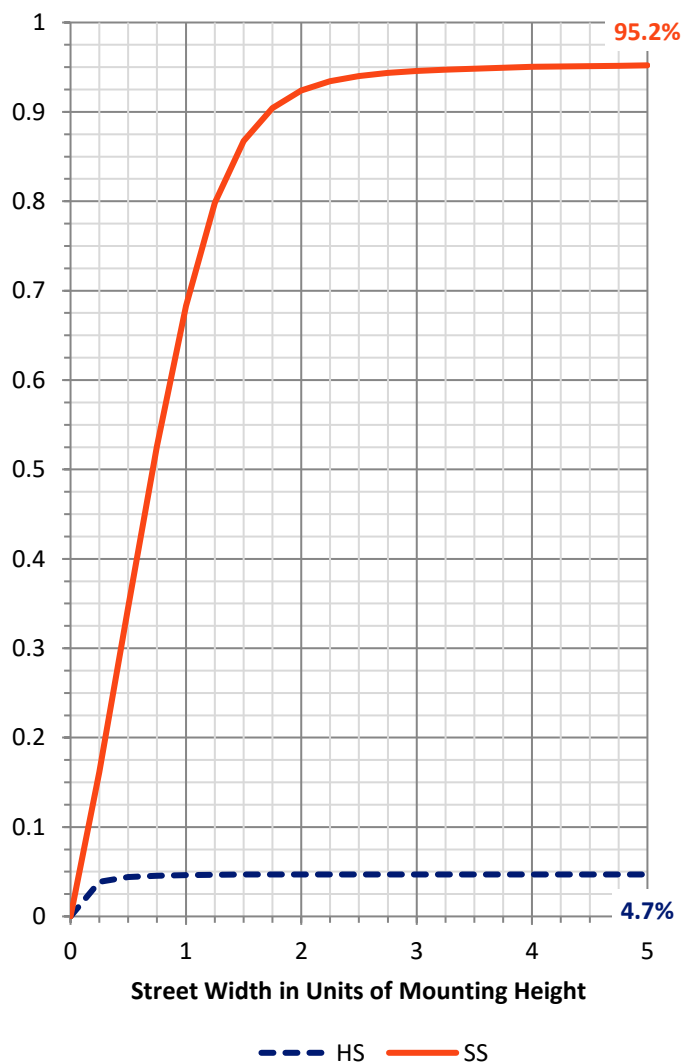
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1150.2	0.0	1150.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	23236.8	0.0	23236.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	24387.0	0.0	24387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.5	1.3
10°-20°	992.5	4.1
20°-30°	1848.5	7.6
30°-40°	3269.5	13.4
40°-50°	4999.9	20.5
50°-60°	5668.7	23.2
60°-70°	4859.5	19.9
70°-80°	2353.6	9.7
80°-90°	87.3	0.4
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°	24387.0	100.0
0°-180°	24387.0	100.0

**Coefficient of Utilization**

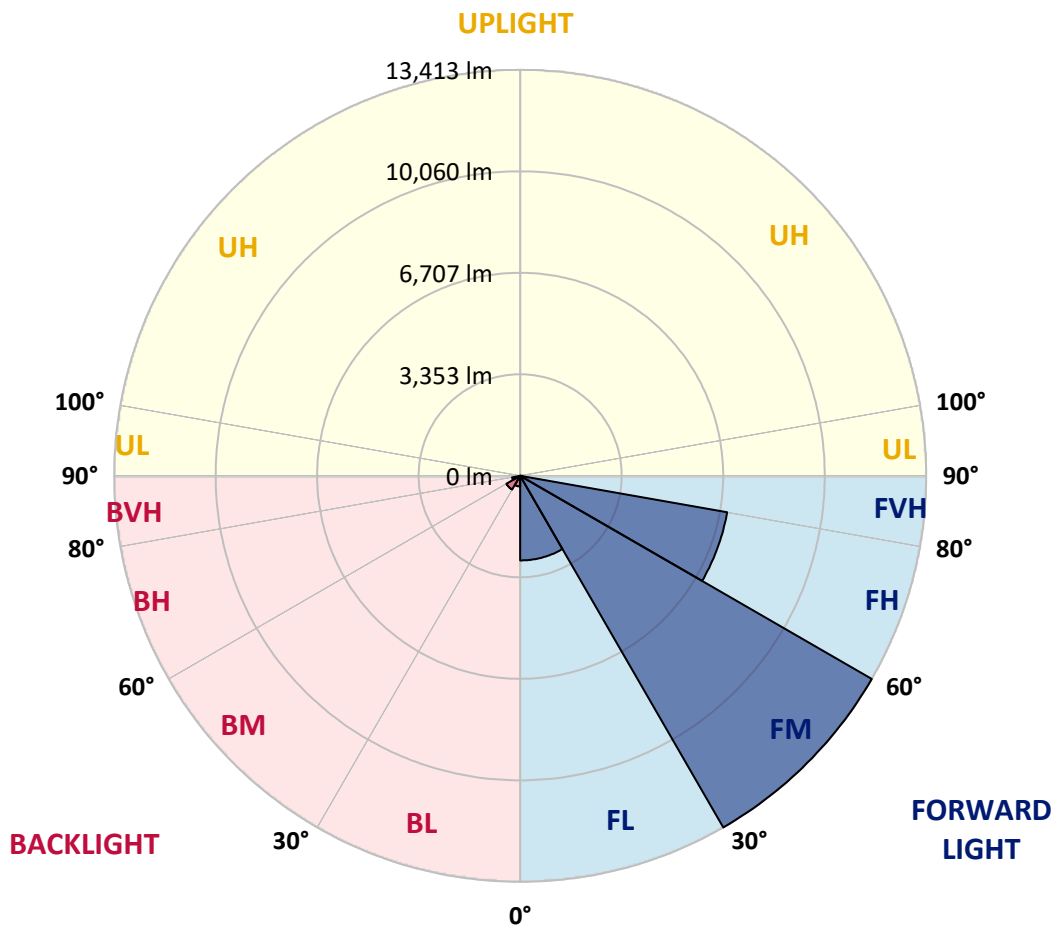


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.7	11.5			
FM (30°-60°)	13413.1	55.0			
FH (60°-80°)	6942.3	28.5			G3/7500
FVH (80°-90°)	85.8	0.4			G1/100
BL (0°-30°)	352.8	1.4	B1/500		
BM (30°-60°)	525.0	2.2	B1/1000		
BH (60°-80°)	270.8	1.1	B1/500		G1/500
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: B1-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4
2.5°	4462.1	4437.7	4413.4	4320.0	4234.7	4157.6	4011.4	3820.6	3650.1	3613.5	3414.6
5°	5241.6	5213.2	5176.7	5083.3	4973.7	4843.8	4628.6	4336.2	4035.8	3970.8	3601.3
7.5°	5769.5	5745.1	5692.3	5647.7	5538.0	5412.2	5172.6	4831.6	4417.4	4336.2	3816.5
10°	6130.8	6114.6	6106.5	6069.9	5988.7	5887.2	5647.7	5290.4	4803.2	4709.8	4043.9
12.5°	6260.7	6260.7	6301.3	6362.2	6374.4	6341.9	6122.7	5765.4	5209.2	5111.7	4311.9
15°	6086.2	6106.5	6195.8	6390.7	6593.7	6727.7	6589.6	6256.7	5655.8	5550.2	4628.6
17.5°	6037.4	6057.7	6118.6	6289.2	6561.2	6918.5	6987.5	6731.7	6078.0	5988.7	4953.4
20°	6175.5	6195.8	6248.6	6394.7	6601.8	6963.1	7251.4	7190.5	6524.7	6431.3	5282.2
22.5°	6504.4	6516.5	6516.5	6630.2	6812.9	7080.9	7417.9	7625.0	6983.4	6881.9	5607.1
25°	7210.8	7186.5	7089.0	7032.2	7149.9	7369.2	7629.0	8006.6	7495.0	7357.0	5956.2
27.5°	8136.5	8217.7	7982.2	7710.2	7620.9	7746.8	7925.4	8343.6	7990.4	7844.2	6272.9
30°	9391.1	9358.6	9050.1	8660.3	8274.6	8229.9	8290.8	8631.9	8485.7	8347.7	6626.2
32.5°	10422.4	10483.3	10158.5	9683.4	9106.9	8834.9	8769.9	8977.0	9013.5	8924.2	7044.4
35°	11482.1	11547.1	11230.4	10702.5	10016.4	9561.6	9374.9	9403.3	9667.2	9553.5	7482.8
37.5°	12432.2	12489.0	12176.4	11636.4	10950.2	10394.0	10126.0	9906.8	10300.6	10199.1	7945.7
40°	13154.9	13163.0	12951.9	12468.7	11819.1	11242.5	10938.0	10507.7	10970.5	10901.5	8428.9
42.5°	13666.4	13682.7	13528.4	13114.3	12513.4	11977.4	11729.8	11218.2	11741.9	11681.0	8989.2
45°	13906.0	13934.4	13918.2	13536.5	13037.1	12574.3	12493.1	11973.4	12586.4	12529.6	9634.7
47.5°	13678.6	13678.6	13885.7	13832.9	13374.1	13065.5	13158.9	12761.0	13504.0	13451.3	10292.5
50°	12732.6	12744.8	13167.1	13772.0	13504.0	13435.0	13727.4	13532.5	14336.4	14368.9	11080.1
52.5°	10247.8	10227.5	11652.6	12813.8	13414.7	13601.5	14251.1	14320.1	15335.2	15432.6	11863.7
55°	7657.4	7645.3	9009.5	11116.7	12789.5	13516.2	14543.4	15022.5	16187.8	16248.7	12448.4
57.5°	6061.8	6029.3	6780.4	8960.7	11376.5	13134.6	14555.6	15156.5	16662.8	16768.4	13016.8
60°	4661.0	4632.6	5192.9	6666.8	9374.9	12119.5	14206.4	15164.6	17121.6	17308.4	13780.1
62.5°	3333.4	3365.9	3796.2	4782.9	7210.8	10686.3	13751.7	15278.3	17937.7	18148.8	14864.2
65°	2249.3	2233.1	2590.4	3256.2	5128.0	8757.7	13053.4	15517.9	19407.5	19777.0	16163.4
67.5°	1563.2	1575.3	1737.7	2119.4	3256.2	6723.6	11892.2	15651.9	20926.0	21214.3	17072.9
70°	1128.7	1145.0	1234.3	1425.1	1989.5	4559.5	10052.9	15038.8	21336.1	21587.8	16439.5
72.5°	743.0	775.5	909.5	1011.0	1270.8	2854.3	7405.7	12955.9	19569.9	19756.7	13792.3
75°	402.0	410.1	584.7	755.2	905.4	1778.3	4417.4	8737.4	14640.9	14580.0	9094.7
77.5°	312.6	324.8	361.4	540.0	609.0	978.5	1745.9	3946.5	6934.7	6748.0	3102.0
80°	190.8	198.9	251.7	320.8	426.3	568.4	511.6	1071.9	1408.9	1319.5	454.7
82.5°	113.7	121.8	150.2	268.0	337.0	268.0	178.6	259.8	263.9	259.8	113.7
85°	20.3	20.3	105.6	186.8	178.6	77.1	105.6	85.3	77.1	81.2	24.4
87.5°	0.0	0.0	40.6	56.8	81.2	28.4	40.6	20.3	20.3	20.3	12.2
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°	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4	3264.4
2.5°	3292.8	3154.7	2870.5	2622.9	2375.2	2192.5	2054.4	1912.3	1863.6	1802.7	1770.2
5°	3349.6	3077.6	2513.2	2062.6	1680.9	1388.6	1201.8	1088.1	1015.0	962.3	950.1
7.5°	3434.9	3016.7	2225.0	1615.9	1197.7	905.4	751.1	674.0	633.4	609.0	600.9
10°	3536.4	2963.9	1940.7	1258.6	844.5	637.4	552.2	519.7	503.5	495.3	491.3
12.5°	3678.5	2943.6	1701.2	970.4	637.4	523.8	479.1	458.8	446.6	434.4	430.4
15°	3865.3	2951.7	1482.0	751.1	527.8	466.9	430.4	410.1	393.8	381.7	381.7
17.5°	4060.1	2963.9	1266.8	609.0	479.1	426.3	385.7	357.3	345.1	332.9	328.9
20°	4242.9	2959.8	1059.7	519.7	434.4	381.7	341.1	312.6	292.3	280.2	280.2
22.5°	4417.4	2935.5	864.8	466.9	397.9	337.0	292.3	263.9	247.7	235.5	235.5
25°	4604.2	2886.8	706.5	426.3	353.2	296.4	251.7	223.3	211.1	198.9	198.9
27.5°	4750.4	2805.6	576.5	389.8	312.6	255.8	215.2	190.8	178.6	170.5	170.5
30°	4908.7	2687.8	479.1	349.2	272.0	219.2	182.7	162.4	150.2	146.2	146.2
32.5°	5083.3	2557.9	410.1	308.6	231.4	186.8	154.3	142.1	129.9	125.9	125.9
35°	5286.3	2444.2	369.5	268.0	203.0	158.3	134.0	121.8	113.7	113.7	113.7
37.5°	5517.7	2326.5	332.9	235.5	174.6	134.0	113.7	109.6	105.6	101.5	101.5
40°	5769.5	2200.6	300.5	207.1	150.2	113.7	97.4	97.4	93.4	93.4	93.4
42.5°	6053.7	2091.0	272.0	182.7	129.9	97.4	85.3	85.3	81.2	81.2	81.2
45°	6362.2	1989.5	247.7	162.4	113.7	85.3	77.1	73.1	69.0	69.0	69.0
47.5°	6727.7	1932.6	227.4	142.1	97.4	73.1	65.0	60.9	56.8	52.8	52.8
50°	7194.6	1957.0	207.1	117.7	85.3	60.9	52.8	48.7	44.7	40.6	40.6
52.5°	7564.1	1944.8	178.6	101.5	69.0	48.7	40.6	36.5	32.5	28.4	28.4
55°	7832.0	1896.1	154.3	85.3	52.8	40.6	32.5	24.4	20.3	20.3	20.3
57.5°	8095.9	1847.4	129.9	69.0	40.6	28.4	20.3	16.2	16.2	16.2	16.2
60°	8506.0	1778.3	113.7	56.8	32.5	20.3	12.2	12.2	8.1	8.1	8.1
62.5°	9005.4	1693.1	93.4	48.7	24.4	16.2	8.1	8.1	0.0	0.0	0.0
65°	9553.5	1542.9	77.1	36.5	20.3	12.2	8.1	0.0	0.0	0.0	0.0
67.5°	9427.7	1238.3	65.0	24.4	16.2	8.1	4.1	0.0	0.0	0.0	0.0
70°	8339.5	836.4	52.8	20.3	12.2	8.1	4.1	0.0	0.0	0.0	0.0
72.5°	6532.8	495.3	36.5	16.2	8.1	4.1	0.0	0.0	0.0	0.0	0.0
75°	4181.9	247.7	24.4	12.2	8.1	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	1400.8	121.8	16.2	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	198.9	40.6	8.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.7	16.2	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	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)