

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: P400242

Luminaire Tested: **ARCH-L-PA3-250-760-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400242  
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-PA3-250-760-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 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: 24190 lumens  
Efficiency: N/A  
Efficacy: 96.4 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

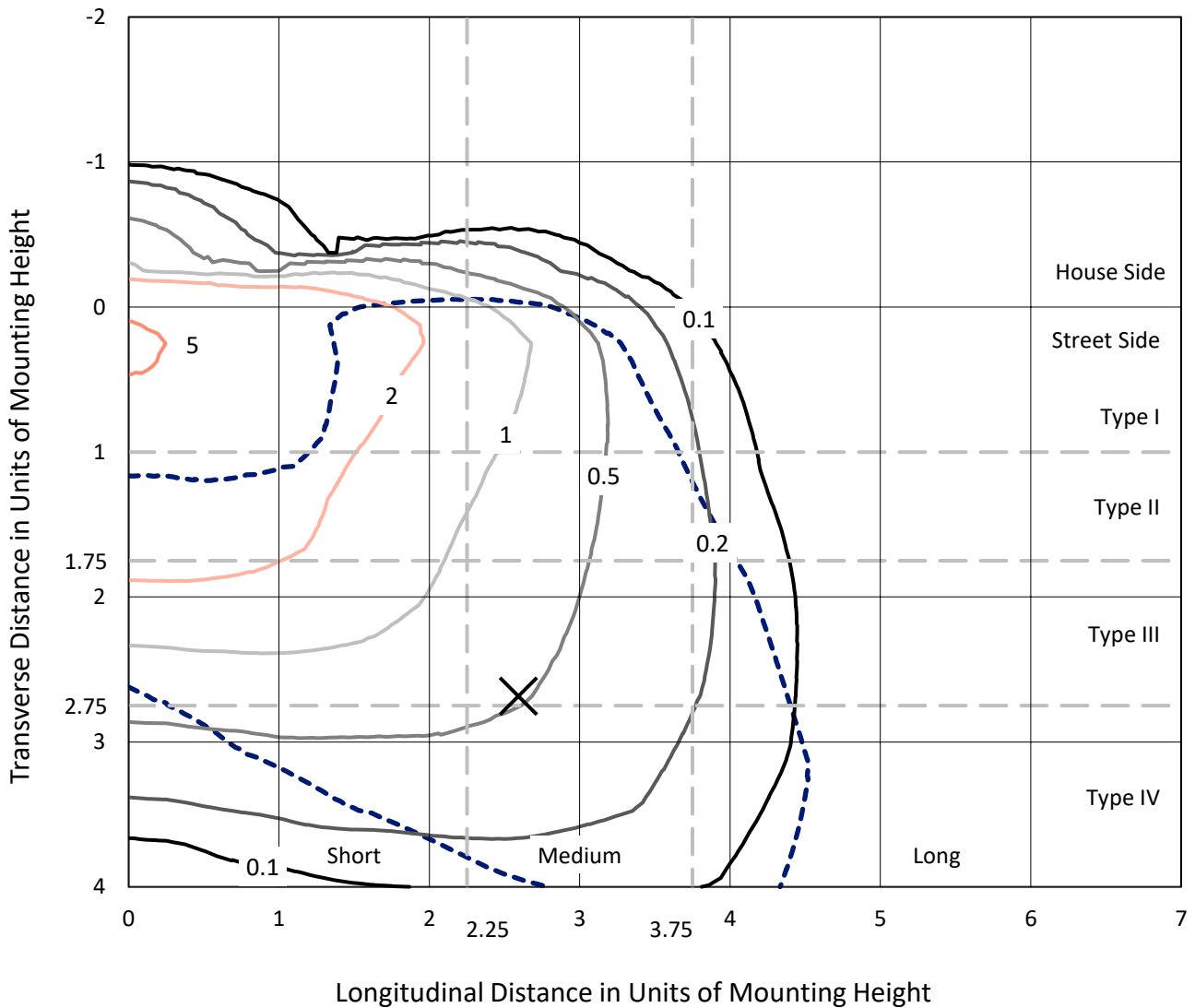
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

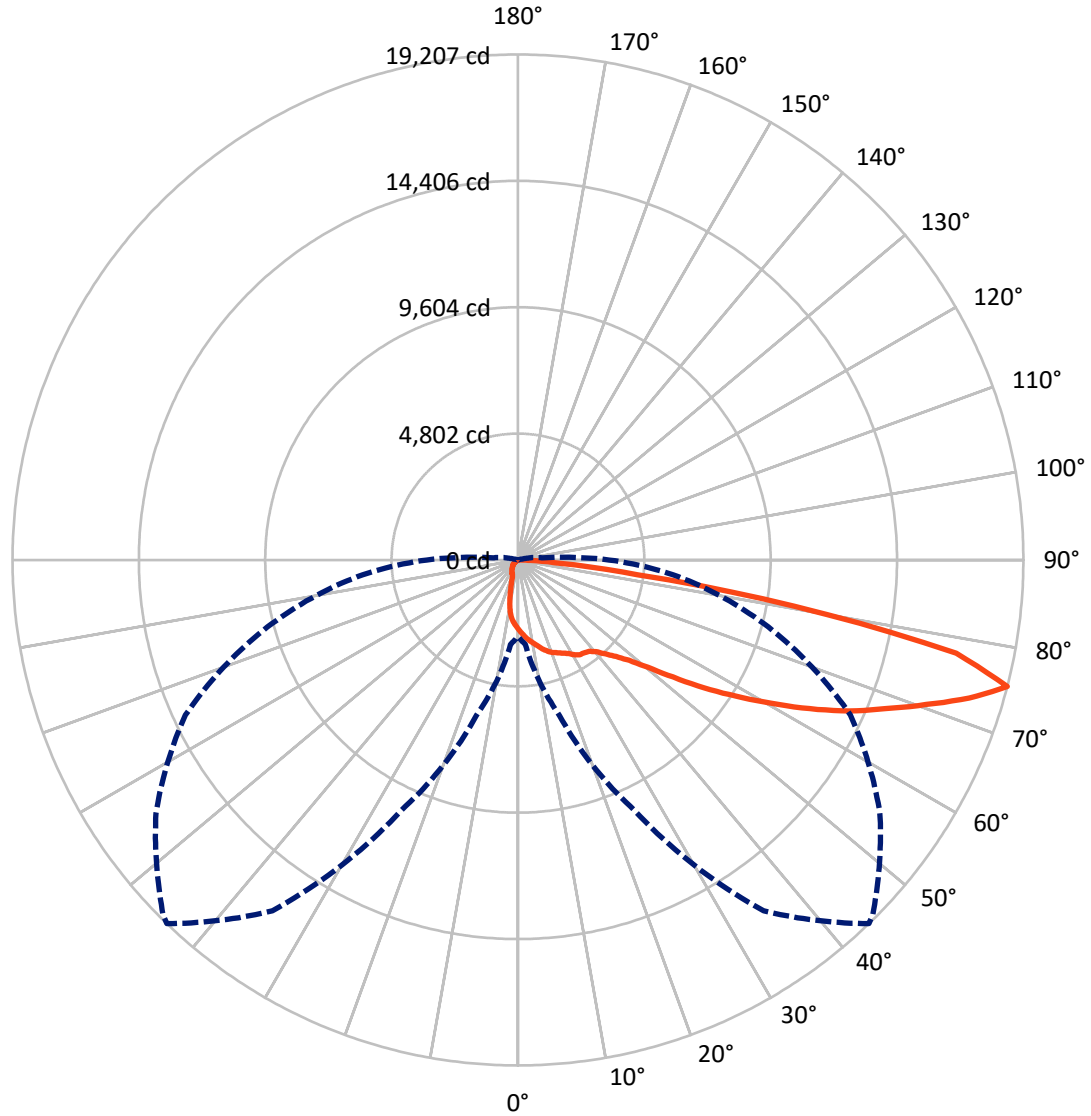
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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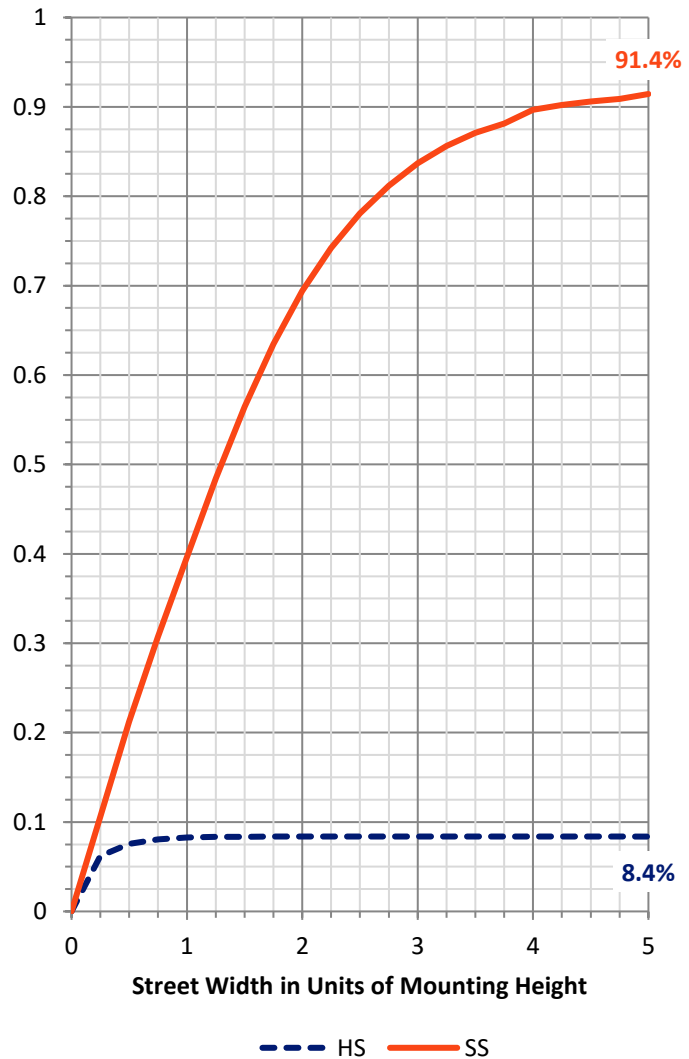
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2040.0	0.0	2040.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	22150.0	0.0	22150.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	24190.0	0.0	24190.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.3	1.0
10°-20°	695.8	2.9
20°-30°	1148.3	4.7
30°-40°	1666.6	6.9
40°-50°	2709.1	11.2
50°-60°	4775.9	19.7
60°-70°	6863.9	28.4
70°-80°	5496.5	22.7
80°-90°	585.6	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°	24190.0	100.0
0°-180°	24190.0	100.0

**Coefficient of Utilization**



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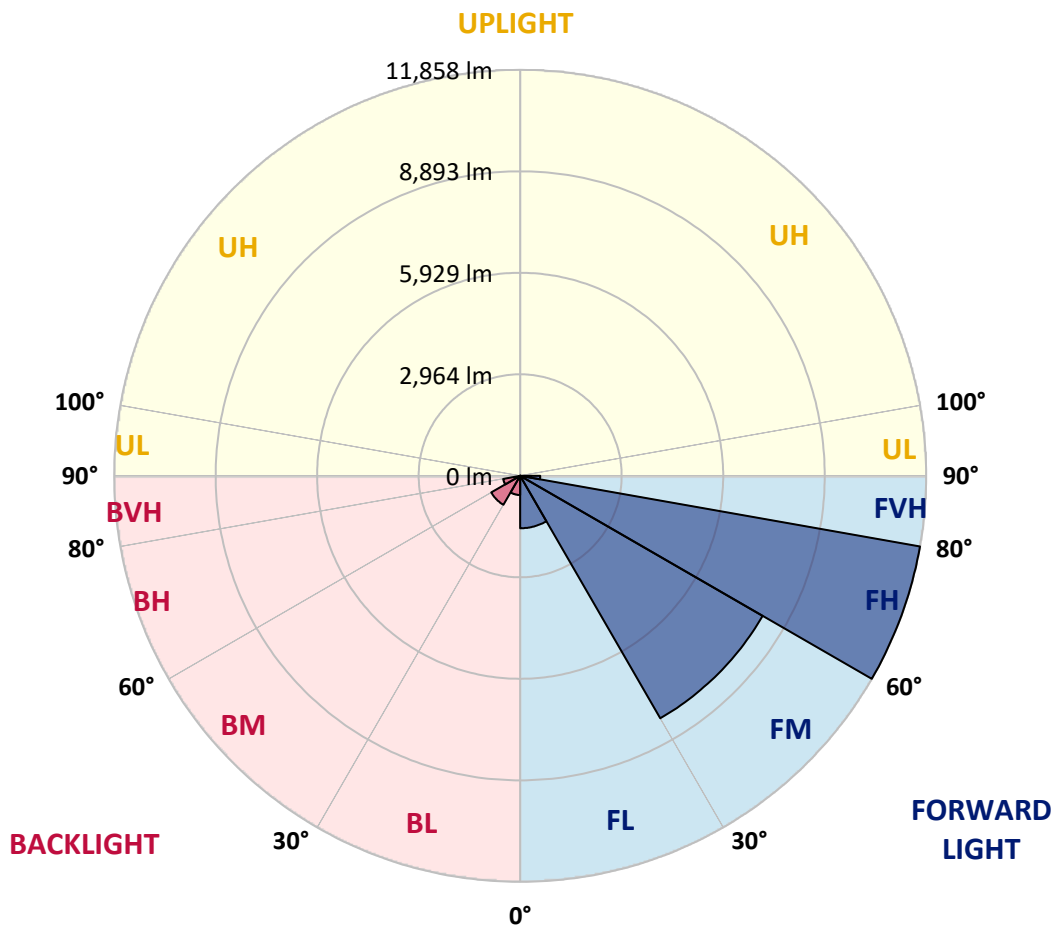
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.9	6.3			
FM (30°-60°)	8176.4	33.8			
FH (60°-80°)	11857.5	49.0			G4/12000
FVH (80°-90°)	584.1	2.4			G4/750
BL (0°-30°)	560.5	2.3	B2/1000		
BM (30°-60°)	975.2	4.0	B1/1000		
BH (60°-80°)	502.9	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-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0
2.5°	2869.5	2865.0	2851.7	2829.3	2807.0	2784.7	2780.3	2744.6	2704.4	2673.2	2646.4
5°	3123.9	3119.4	3097.1	3048.0	2998.9	2940.9	2936.5	2851.7	2775.8	2691.0	2619.6
7.5°	3387.2	3378.3	3338.1	3262.2	3177.4	3088.2	3079.3	2954.3	2842.7	2731.2	2628.5
10°	3592.5	3583.5	3525.5	3436.3	3320.2	3208.7	3195.3	3065.9	2954.3	2811.5	2673.2
12.5°	3793.3	3775.4	3699.6	3601.4	3458.6	3351.5	3338.1	3204.2	3070.3	2923.1	2753.5
15°	3980.7	3958.4	3887.0	3762.1	3610.3	3507.7	3498.8	3355.9	3217.6	3048.0	2860.6
17.5°	4110.1	4101.2	4016.4	3878.1	3730.8	3646.0	3637.1	3489.8	3351.5	3173.0	2972.2
20°	4177.1	4177.1	4096.8	3945.0	3811.1	3753.1	3739.7	3601.4	3467.5	3297.9	3088.2
22.5°	4190.5	4203.9	4141.4	3976.3	3878.1	3829.0	3820.1	3699.6	3570.2	3414.0	3217.6
25°	4217.2	4217.2	4186.0	4007.5	3936.1	3922.7	3918.2	3811.1	3695.1	3538.9	3347.0
27.5°	4248.5	4248.5	4226.2	4052.1	4025.4	4020.9	4016.4	3967.3	3873.6	3690.6	3498.8
30°	4328.8	4333.3	4315.4	4141.4	4123.5	4172.6	4181.5	4154.8	4038.7	3811.1	3654.9
32.5°	4529.6	4489.5	4440.4	4203.9	4235.1	4297.6	4302.0	4248.5	4123.5	3940.6	3842.4
35°	5033.9	4797.4	4574.3	4257.4	4270.8	4333.3	4342.2	4337.7	4261.9	4105.7	4056.6
37.5°	5502.5	5167.8	4850.9	4382.4	4337.7	4404.7	4422.5	4498.4	4440.4	4333.3	4346.7
40°	5774.7	5645.3	5422.2	4726.0	4471.6	4574.3	4592.1	4708.1	4685.8	4641.2	4726.0
42.5°	6613.7	6622.6	6381.7	5239.2	4717.1	4882.2	4904.5	4998.2	5029.5	5051.8	5257.1
45°	7586.6	7617.8	7559.8	6163.0	5181.2	5234.7	5266.0	5390.9	5507.0	5649.8	6024.6
47.5°	8755.8	8729.0	8514.8	7292.0	5988.9	5689.9	5712.2	5953.2	6154.1	6466.4	7002.0
50°	9791.2	9858.1	9452.0	8345.2	7126.9	6408.4	6386.1	6622.6	6984.1	7421.5	8095.3
52.5°	10835.4	10737.2	10188.3	9389.5	8474.7	7385.8	7318.8	7448.2	7957.0	8474.7	9166.4
55°	11112.1	11121.0	10933.6	10532.0	9599.3	8572.8	8461.3	8452.3	9086.0	9438.6	10291.0
57.5°	11656.6	11678.9	11723.5	11803.8	11362.0	9759.9	9643.9	9518.9	10134.8	10340.1	11420.0
60°	12209.9	12236.7	12508.9	12941.8	12647.3	11040.7	10915.8	10621.2	10964.8	11241.5	12607.1
62.5°	12138.5	12326.0	13115.9	13977.2	13941.5	12446.5	12290.3	11580.7	11799.4	12040.3	13696.0
65°	10960.4	11161.2	12937.4	14262.8	15240.1	13834.4	13580.0	12571.4	12584.8	12874.9	14744.7
67.5°	9907.2	10125.9	11821.7	14142.3	16096.9	15079.4	14816.1	13566.6	13356.8	13838.8	15307.0
70°	9300.3	9518.9	10933.6	13767.4	16337.9	16458.4	16230.8	14704.6	14276.2	14718.0	14677.8
72.5°	7278.7	7622.3	9800.1	13053.4	16596.8	17935.6	17757.1	16146.0	15057.1	13798.7	11174.6
75°	2900.8	3217.6	6118.4	10505.2	16271.0	19207.4	19069.1	16793.1	13937.0	9853.6	5721.2
77.5°	874.7	937.2	1700.3	5194.6	11928.8	17029.6	16985.0	14120.0	9862.6	4574.3	1561.9
80°	290.1	321.3	522.1	1432.5	5444.5	10639.1	10839.9	8996.8	4480.5	1048.7	316.9
82.5°	120.5	133.9	263.3	575.7	1927.9	4583.2	4516.2	4029.8	1561.9	651.6	116.0
85°	31.2	40.2	120.5	330.2	705.1	1579.8	1660.1	1352.2	883.6	540.0	35.7
87.5°	0.0	0.0	58.0	133.9	316.9	477.5	499.8	410.6	499.8	406.1	17.9
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°	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0
2.5°	2624.1	2601.8	2561.6	2534.8	2499.1	2490.2	2472.3	2450.0	2445.6	2423.2	2427.7
5°	2579.4	2543.7	2472.3	2423.2	2365.2	2347.4	2316.1	2293.8	2276.0	2244.7	2249.2
7.5°	2570.5	2517.0	2418.8	2325.1	2231.3	2164.4	2070.7	1994.8	1932.3	1865.4	1878.8
10°	2601.8	2534.8	2396.5	2267.0	2097.5	1883.3	1637.8	1477.2	1396.8	1316.5	1325.4
12.5°	2664.2	2583.9	2405.4	2209.0	1865.4	1499.5	1160.3	941.6	883.6	847.9	852.4
15°	2757.9	2659.8	2432.2	2097.5	1553.0	1084.4	772.0	678.3	700.6	714.0	714.0
17.5°	2856.1	2744.6	2454.5	1896.6	1200.5	758.7	629.2	620.3	651.6	682.8	682.8
20°	2976.6	2833.8	2458.9	1642.3	865.8	615.9	593.5	593.5	615.9	651.6	651.6
22.5°	3092.6	2932.0	2418.8	1352.2	660.5	571.2	571.2	571.2	584.6	620.3	624.8
25°	3231.0	3052.5	2334.0	1044.3	566.8	544.4	544.4	548.9	557.8	589.1	593.5
27.5°	3378.3	3177.4	2191.2	763.1	517.7	513.2	517.7	522.1	526.6	557.8	566.8
30°	3547.8	3315.8	2008.2	571.2	473.0	473.0	486.4	495.4	495.4	522.1	531.1
32.5°	3744.2	3498.8	1789.5	473.0	428.4	424.0	446.3	459.7	459.7	482.0	490.9
35°	3989.6	3686.2	1526.2	419.5	392.7	383.8	392.7	415.0	424.0	441.8	446.3
37.5°	4315.4	3909.3	1245.1	388.3	365.9	348.1	348.1	352.6	370.4	388.3	392.7
40°	4730.5	4154.8	968.4	365.9	339.2	321.3	307.9	303.5	299.0	312.4	321.3
42.5°	5252.6	4431.5	723.0	343.6	316.9	290.1	272.2	254.4	232.1	227.6	232.1
45°	5922.0	4770.6	535.5	325.8	303.5	263.3	232.1	200.8	160.7	147.3	151.7
47.5°	6711.9	5123.2	419.5	307.9	294.5	232.1	191.9	138.3	98.2	89.3	93.7
50°	7550.9	5462.3	357.0	285.6	276.7	200.8	138.3	84.8	58.0	58.0	62.5
52.5°	8264.9	5654.2	325.8	267.8	249.9	165.1	89.3	49.1	35.7	35.7	40.2
55°	8956.6	5756.9	303.5	249.9	214.2	116.0	49.1	31.2	22.3	22.3	22.3
57.5°	9670.7	5801.5	276.7	227.6	169.6	71.4	26.8	17.9	13.4	13.4	13.4
60°	10304.4	5716.7	236.5	187.4	111.6	35.7	13.4	13.4	8.9	4.5	4.5
62.5°	10835.4	5556.1	165.1	133.9	66.9	17.9	8.9	4.5	0.0	0.0	0.0
65°	11161.2	5297.2	107.1	89.3	40.2	13.4	4.5	0.0	0.0	0.0	0.0
67.5°	11067.5	4810.8	66.9	58.0	17.9	8.9	4.5	0.0	0.0	0.0	0.0
70°	9987.5	3945.0	49.1	35.7	13.4	4.5	0.0	0.0	0.0	0.0	0.0
72.5°	7198.3	2668.7	35.7	22.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3463.1	950.6	22.3	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	847.9	209.7	13.4	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	187.4	40.2	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.5	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	4.5	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)