

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: P400498

Luminaire Tested: **ARCH-L-PA3-90-730-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-90-730-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14248 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

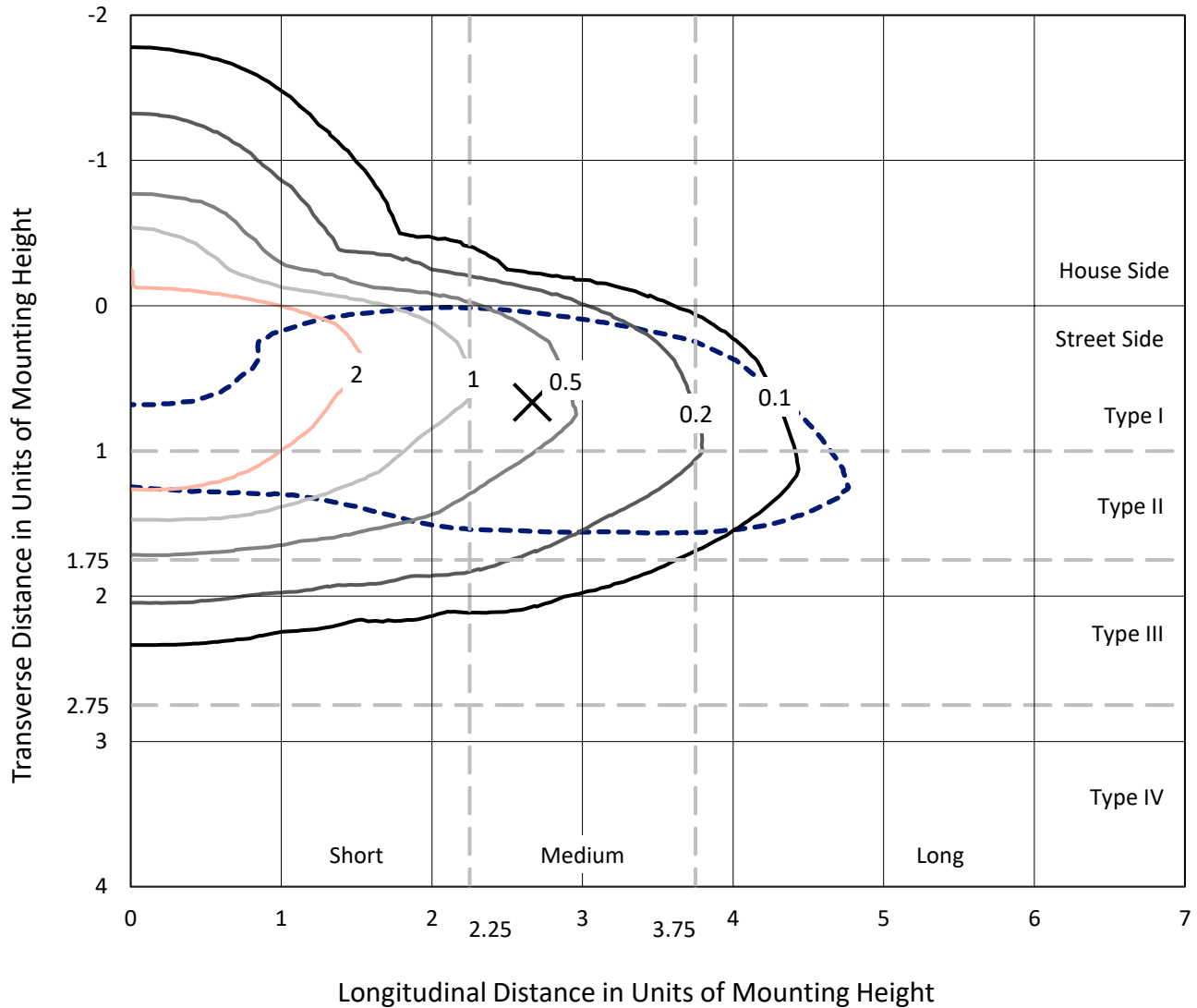
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

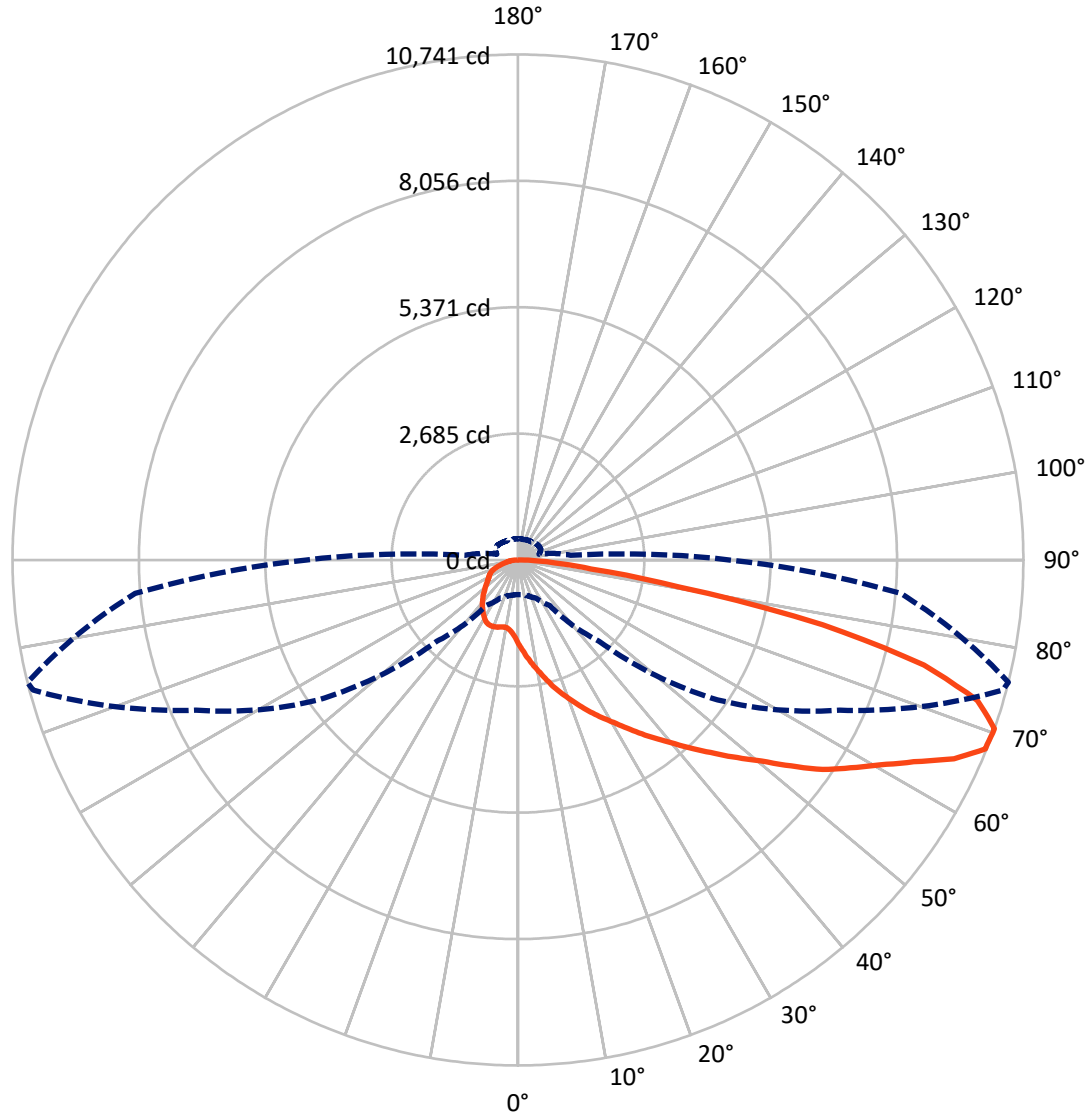
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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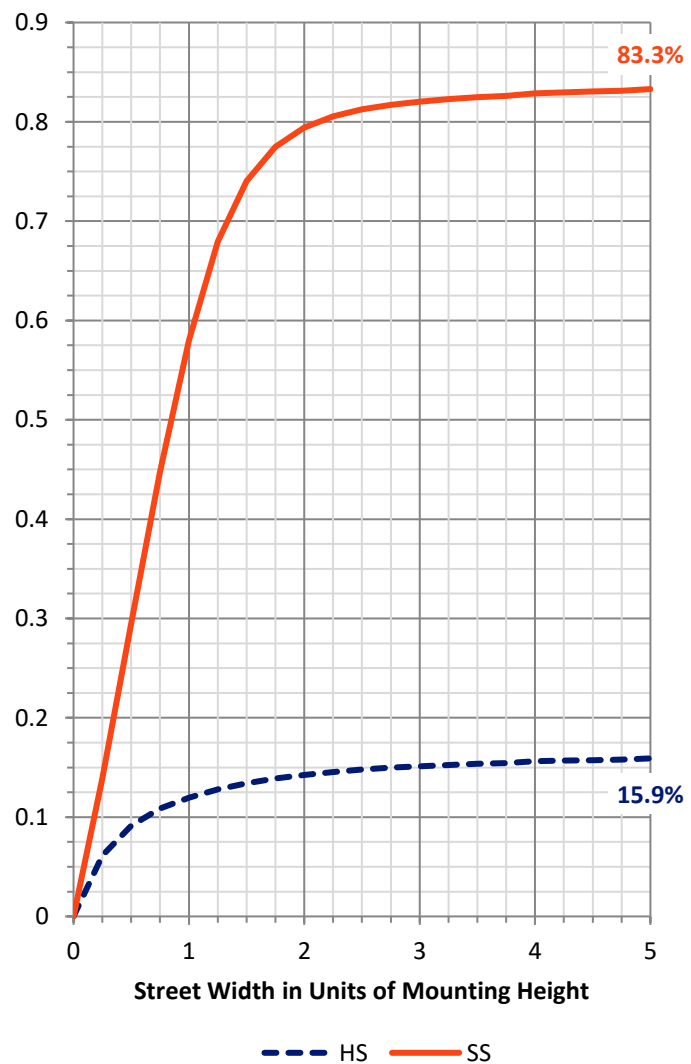
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2326.1	0.0	2326.1
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	11921.9	0.0	11921.9
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	14248.0	0.0	14248.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.1	1.3
10°-20°	629.2	4.4
20°-30°	1125.7	7.9
30°-40°	1821.0	12.8
40°-50°	2634.4	18.5
50°-60°	3015.3	21.2
60°-70°	2773.7	19.5
70°-80°	1715.2	12.0
80°-90°	348.3	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°	14248.0	100.0
0°-180°	14248.0	100.0



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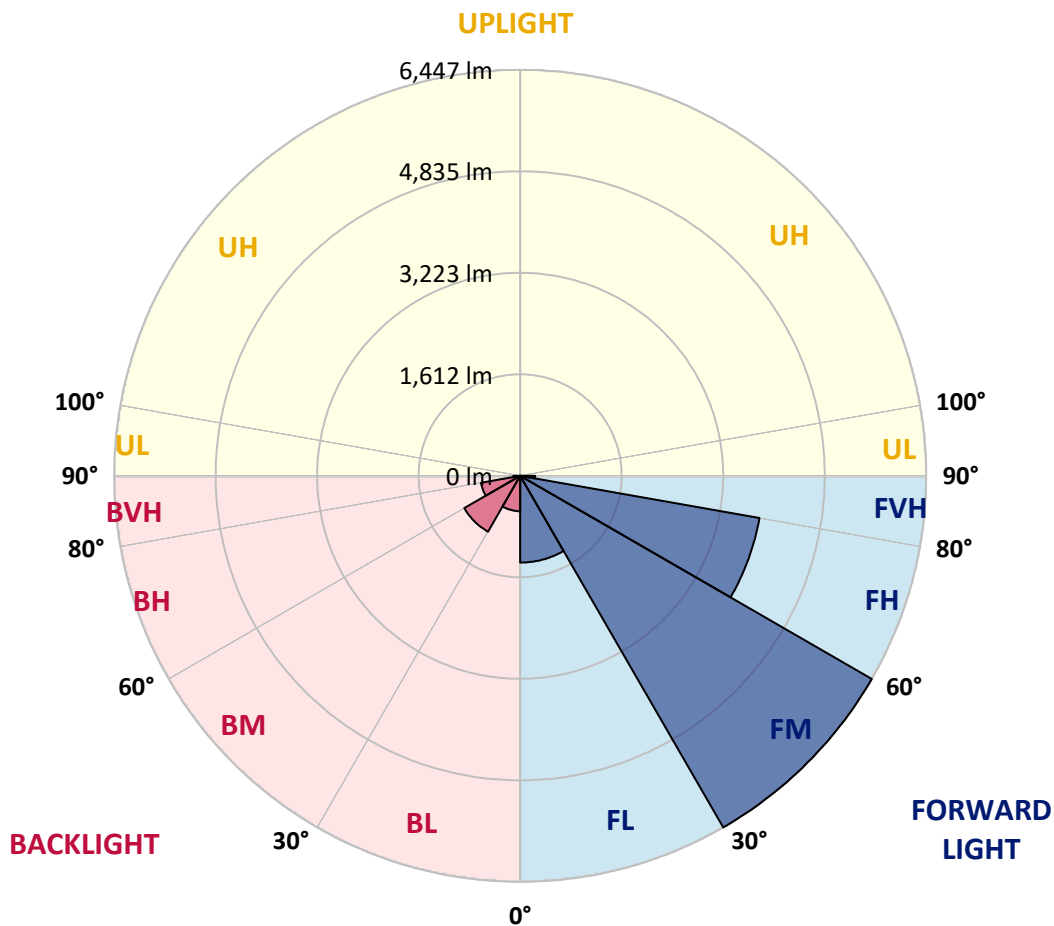
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.3	9.7			
FM (30°-60°)	6446.5	45.2			
FH (60°-80°)	3858.0	27.1			G2/5000
FVH (80°-90°)	239.1	1.7			G3/500
BL (0°-30°)	561.8	3.9	B2/1000		
BM (30°-60°)	1024.2	7.2	B2/2500		
BH (60°-80°)	630.9	4.4	B2/1000		G2/1000
BVH (80°-90°)	109.2	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8
2.5°	2270.8	2253.9	2252.0	2225.8	2201.5	2135.9	2089.0	2006.6	1924.2	1922.3	1839.9
5°	2624.9	2608.0	2598.7	2566.8	2525.6	2439.4	2355.1	2227.7	2087.2	2077.8	1922.3
7.5°	2864.7	2849.7	2831.0	2817.9	2778.5	2701.7	2598.7	2446.9	2253.9	2235.2	2017.8
10°	3025.8	3016.5	3012.7	3003.3	2979.0	2917.2	2817.9	2656.7	2420.7	2400.1	2119.0
12.5°	3095.2	3091.4	3108.3	3134.5	3143.9	3119.5	3024.0	2872.2	2604.3	2581.8	2240.8
15°	3014.6	3018.3	3061.4	3151.4	3246.9	3299.4	3243.2	3095.2	2812.2	2780.4	2383.2
17.5°	2977.1	2982.7	3012.7	3098.9	3233.8	3396.8	3423.0	3306.9	3012.7	2967.7	2533.1
20°	3042.7	3050.2	3072.7	3140.1	3233.8	3408.0	3544.8	3509.2	3209.4	3162.6	2677.3
22.5°	3209.4	3218.8	3216.9	3260.0	3323.7	3443.6	3612.3	3700.3	3415.5	3363.1	2827.2
25°	3565.4	3557.9	3494.2	3473.6	3490.5	3567.3	3702.2	3883.9	3631.0	3578.5	2984.6
27.5°	4048.8	4039.4	3923.3	3818.4	3724.7	3758.4	3829.6	4031.9	3850.2	3790.2	3134.5
30°	4565.9	4554.7	4419.8	4249.3	4041.3	3992.6	3983.2	4161.2	4071.3	4007.6	3293.8
32.5°	5069.9	5060.5	4916.3	4717.7	4431.0	4284.9	4194.9	4305.5	4322.3	4260.5	3468.0
35°	5528.9	5528.9	5405.3	5169.2	4845.1	4624.0	4476.0	4483.5	4610.9	4539.7	3666.6
37.5°	5937.4	5935.5	5800.6	5568.3	5257.3	5004.3	4820.7	4698.9	4886.3	4824.5	3874.6
40°	6261.5	6248.4	6149.1	5946.7	5633.9	5382.8	5197.3	4951.9	5193.6	5137.4	4095.6
42.5°	6497.6	6490.1	6422.6	6246.5	5948.6	5712.5	5585.1	5270.4	5542.0	5485.8	4354.2
45°	6589.4	6604.4	6604.4	6437.6	6201.5	5986.1	5929.9	5620.7	5918.6	5862.4	4631.5
47.5°	6441.4	6480.7	6561.3	6572.5	6364.5	6218.4	6237.1	5973.0	6306.5	6276.5	4935.0
50°	5978.6	6051.7	6227.8	6546.3	6430.1	6396.4	6499.4	6332.7	6722.4	6713.0	5304.1
52.5°	4785.1	4963.1	5512.1	6083.5	6385.2	6478.8	6759.9	6737.4	7258.2	7273.2	5785.6
55°	3670.3	3737.8	4372.9	5345.3	6109.7	6452.6	6934.1	7132.7	7839.1	7857.8	6227.8
57.5°	2967.7	3012.7	3359.3	4372.9	5482.1	6310.2	7070.9	7363.2	8285.0	8333.7	6621.2
60°	2351.3	2416.9	2649.2	3346.2	4603.4	5967.3	7166.4	7619.8	8764.6	8837.7	7091.5
62.5°	1748.0	1779.9	1999.1	2478.7	3644.1	5350.9	7115.9	7899.0	9352.9	9441.0	7657.3
65°	1244.1	1272.2	1427.7	1763.0	2694.2	4517.2	6821.7	8107.0	10091.1	10181.0	8226.9
67.5°	931.2	942.4	1030.5	1232.8	1815.5	3509.2	6225.9	8071.4	10630.7	10711.2	8455.5
70°	736.3	740.1	783.2	891.8	1180.4	2443.1	5182.3	7548.6	10670.0	10741.2	8166.9
72.5°	610.8	608.9	633.3	685.7	822.5	1545.7	3839.0	6578.1	10164.2	10212.9	7361.3
75°	504.0	507.7	524.6	554.6	627.6	1019.2	2488.1	5247.9	8966.9	8914.5	6177.2
77.5°	423.4	421.6	429.0	455.3	507.7	732.6	1457.6	3792.1	6645.6	6619.4	4054.4
80°	341.0	344.7	356.0	378.5	427.2	558.3	861.8	2366.3	3565.4	3469.9	1937.3
82.5°	228.6	264.2	286.7	312.9	369.1	412.2	547.1	1202.8	1594.4	1570.1	878.7
85°	108.7	144.3	213.6	243.6	299.8	258.6	371.0	573.3	798.1	788.8	316.6
87.5°	22.5	22.5	114.3	136.8	185.5	110.5	206.1	249.2	386.0	361.6	129.3
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°	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8
2.5°	1791.1	1740.6	1639.4	1558.8	1476.4	1429.5	1371.5	1343.4	1337.7	1322.7	1334.0
5°	1823.0	1723.7	1532.6	1407.1	1322.7	1281.5	1260.9	1253.4	1251.6	1247.8	1247.8
7.5°	1866.1	1714.3	1465.1	1337.7	1283.4	1270.3	1275.9	1287.1	1289.0	1292.8	1290.9
10°	1918.5	1716.2	1427.7	1320.9	1294.6	1296.5	1315.3	1330.2	1337.7	1343.4	1341.5
12.5°	1991.6	1738.7	1422.0	1332.1	1320.9	1328.4	1347.1	1362.1	1369.6	1371.5	1371.5
15°	2087.2	1785.5	1435.2	1356.5	1347.1	1352.7	1364.0	1369.6	1371.5	1369.6	1369.6
17.5°	2192.1	1841.7	1453.9	1371.5	1356.5	1350.9	1347.1	1341.5	1330.2	1322.7	1322.7
20°	2293.3	1892.3	1463.3	1369.6	1343.4	1320.9	1298.4	1270.3	1251.6	1236.6	1236.6
22.5°	2394.4	1939.2	1463.3	1349.0	1307.8	1264.7	1217.8	1172.9	1144.8	1126.0	1126.0
25°	2501.2	1984.1	1452.0	1313.4	1251.6	1189.7	1126.0	1069.8	1041.7	1023.0	1019.2
27.5°	2591.2	2010.3	1422.0	1262.8	1182.2	1103.5	1030.5	972.4	951.8	934.9	934.9
30°	2686.7	2027.2	1365.8	1197.2	1103.5	1013.6	938.7	891.8	869.3	845.0	843.1
32.5°	2793.5	2038.5	1302.1	1127.9	1023.0	927.4	863.7	826.2	777.5	751.3	747.6
35°	2917.2	2053.4	1234.7	1049.2	942.4	856.2	818.8	756.9	710.1	687.6	685.7
37.5°	3048.3	2064.7	1161.6	979.9	869.3	809.4	771.9	698.8	657.6	623.9	620.2
40°	3187.0	2064.7	1086.7	912.4	811.3	788.8	717.6	652.0	582.7	565.8	562.1
42.5°	3340.6	2060.9	1011.7	846.9	756.9	741.9	685.7	616.4	580.8	565.8	562.1
45°	3503.6	2047.8	940.5	771.9	700.7	670.7	627.6	608.9	593.9	593.9	593.9
47.5°	3689.1	2036.6	860.0	704.5	659.5	625.8	593.9	582.7	580.8	586.4	592.1
50°	3927.0	2032.8	792.5	655.8	627.6	588.3	584.6	575.2	577.1	577.1	577.1
52.5°	4215.6	1999.1	728.8	620.2	595.8	549.0	560.2	569.6	573.3	571.4	569.6
55°	4427.3	1939.2	674.5	595.8	573.3	534.0	549.0	563.9	567.7	562.1	562.1
57.5°	4618.4	1854.8	631.4	577.1	558.3	524.6	541.5	556.5	552.7	550.8	549.0
60°	4837.6	1774.3	597.7	567.7	543.3	520.9	535.8	545.2	539.6	535.8	534.0
62.5°	5075.5	1695.6	573.3	567.7	532.1	519.0	530.2	534.0	522.7	519.0	519.0
65°	5186.1	1571.9	547.1	567.7	526.5	515.2	519.0	515.2	504.0	504.0	502.1
67.5°	5004.3	1367.7	513.4	560.2	534.0	509.6	502.1	496.5	483.4	483.4	479.6
70°	4502.2	1124.1	464.6	535.8	535.8	507.7	479.6	466.5	451.5	457.2	449.7
72.5°	3846.5	891.8	404.7	494.6	524.6	505.9	455.3	434.7	421.6	427.2	415.9
75°	3115.8	691.4	333.5	429.0	496.5	496.5	430.9	402.8	387.8	387.8	374.7
77.5°	1986.0	511.5	271.7	356.0	445.9	483.4	410.3	367.2	344.7	339.1	329.7
80°	983.6	359.7	223.0	282.9	380.3	453.4	395.3	326.0	294.2	282.9	266.0
82.5°	522.7	249.2	178.0	221.1	303.5	408.4	376.6	281.0	241.7	224.8	206.1
85°	234.2	153.6	142.4	168.6	230.5	335.4	339.1	230.5	185.5	221.1	163.0
87.5°	86.2	69.3	69.3	86.2	133.0	140.5	239.8	148.0	118.0	80.6	63.7
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)