

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: P400318

Luminaire Tested: **ARCH-L-PA3-260-827-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400318  
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-PA3-260-827-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25429 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

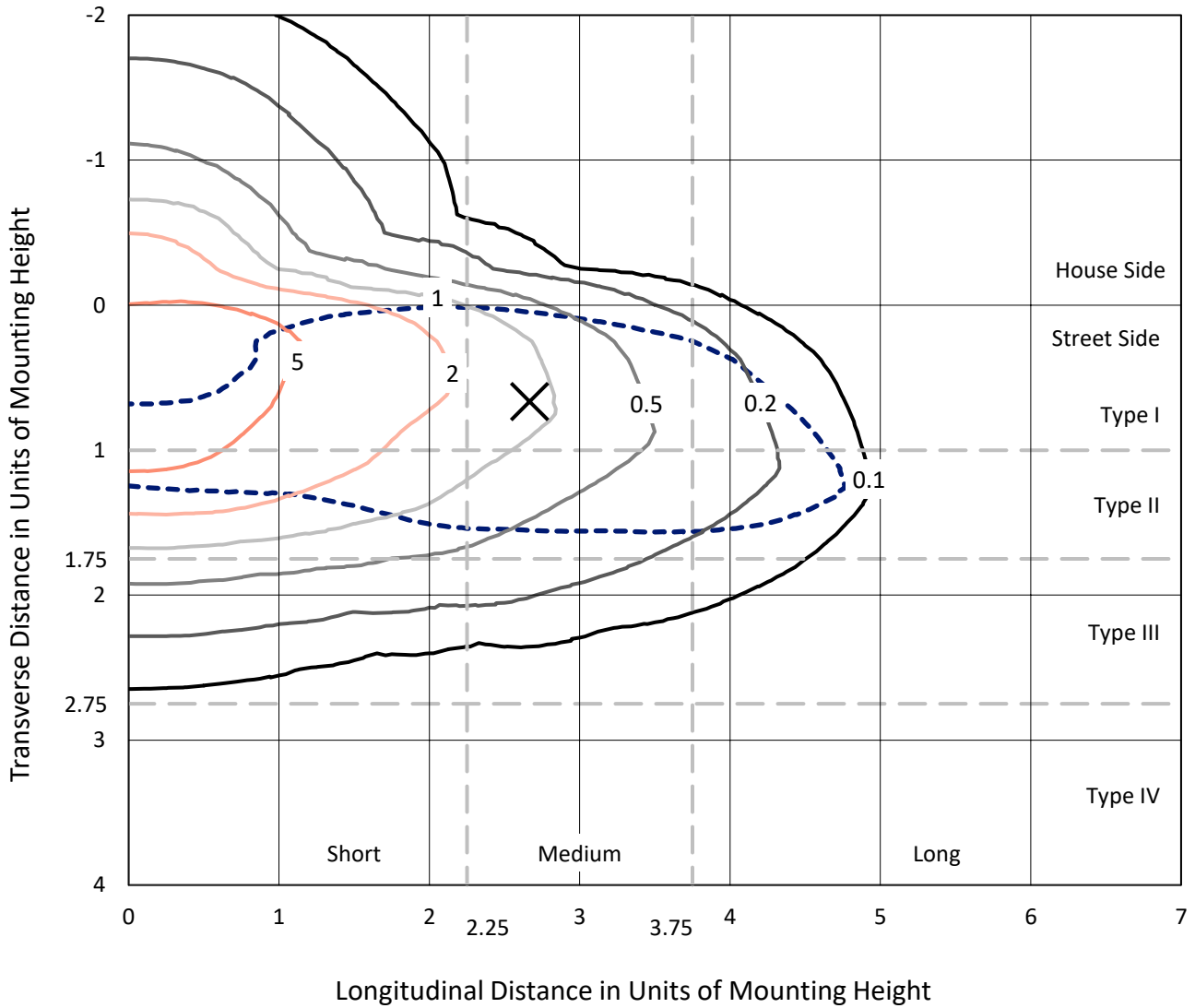
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

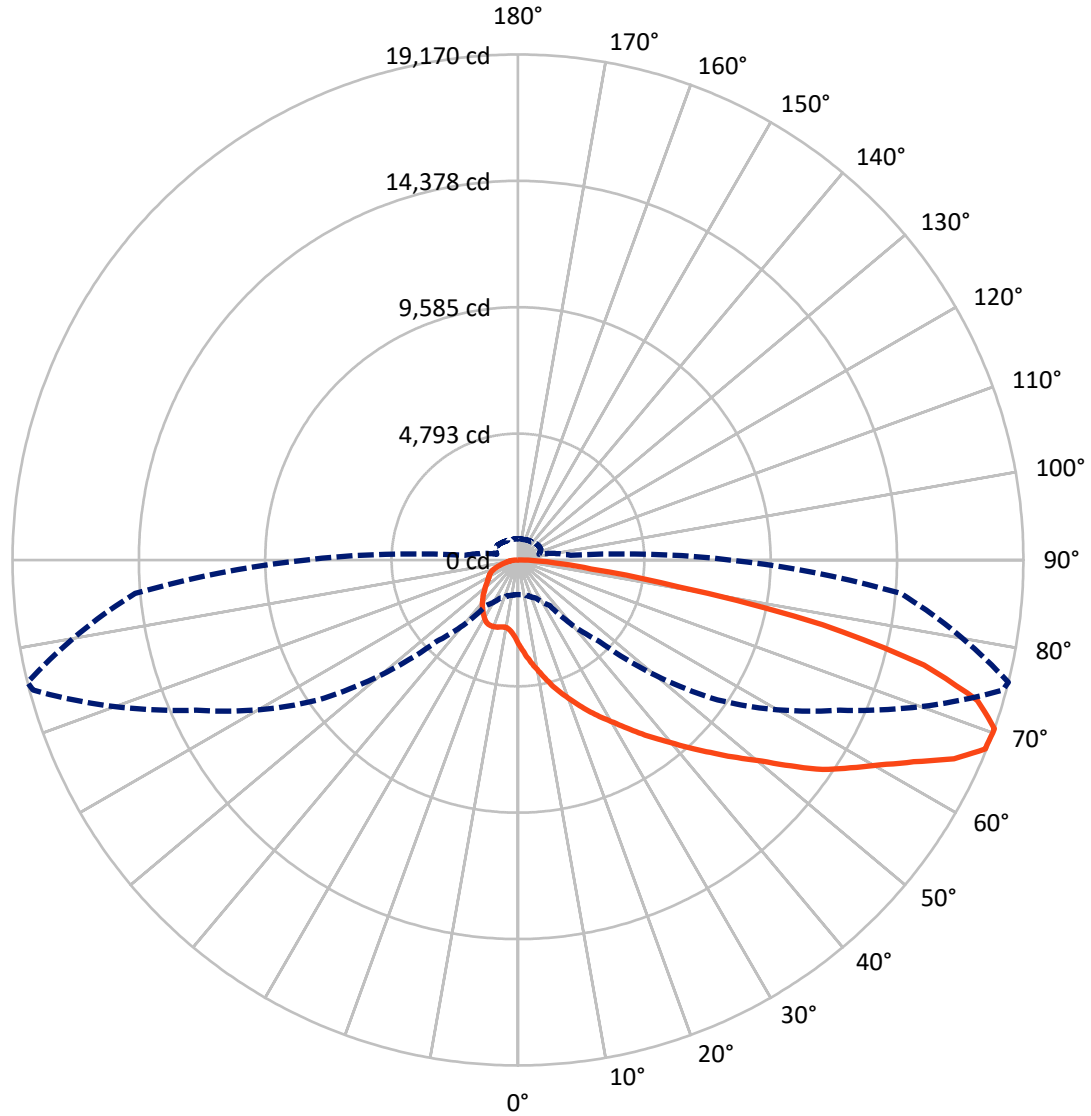
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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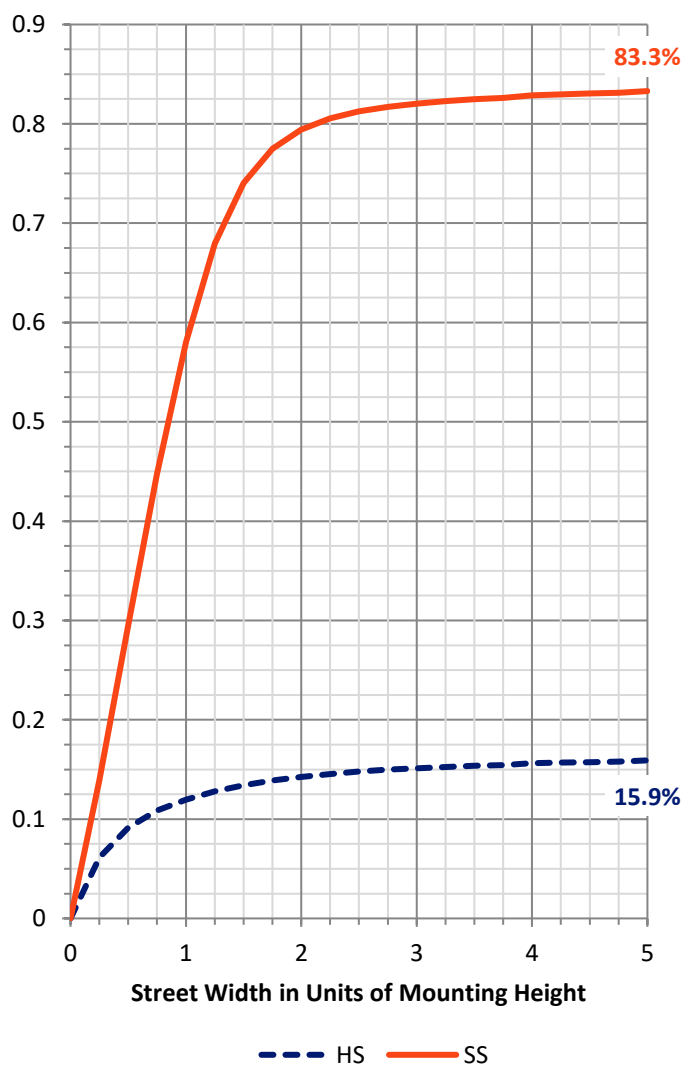
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4151.5	0.0	4151.5
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	21277.5	0.0	21277.5
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	25429.0	0.0	25429.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.4	1.3
10°-20°	1123.0	4.4
20°-30°	2009.2	7.9
30°-40°	3250.1	12.8
40°-50°	4701.8	18.5
50°-60°	5381.4	21.2
60°-70°	4950.3	19.5
70°-80°	3061.2	12.0
80°-90°	621.6	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°	25429.0	100.0
0°-180°	25429.0	100.0

**Coefficient of Utilization**



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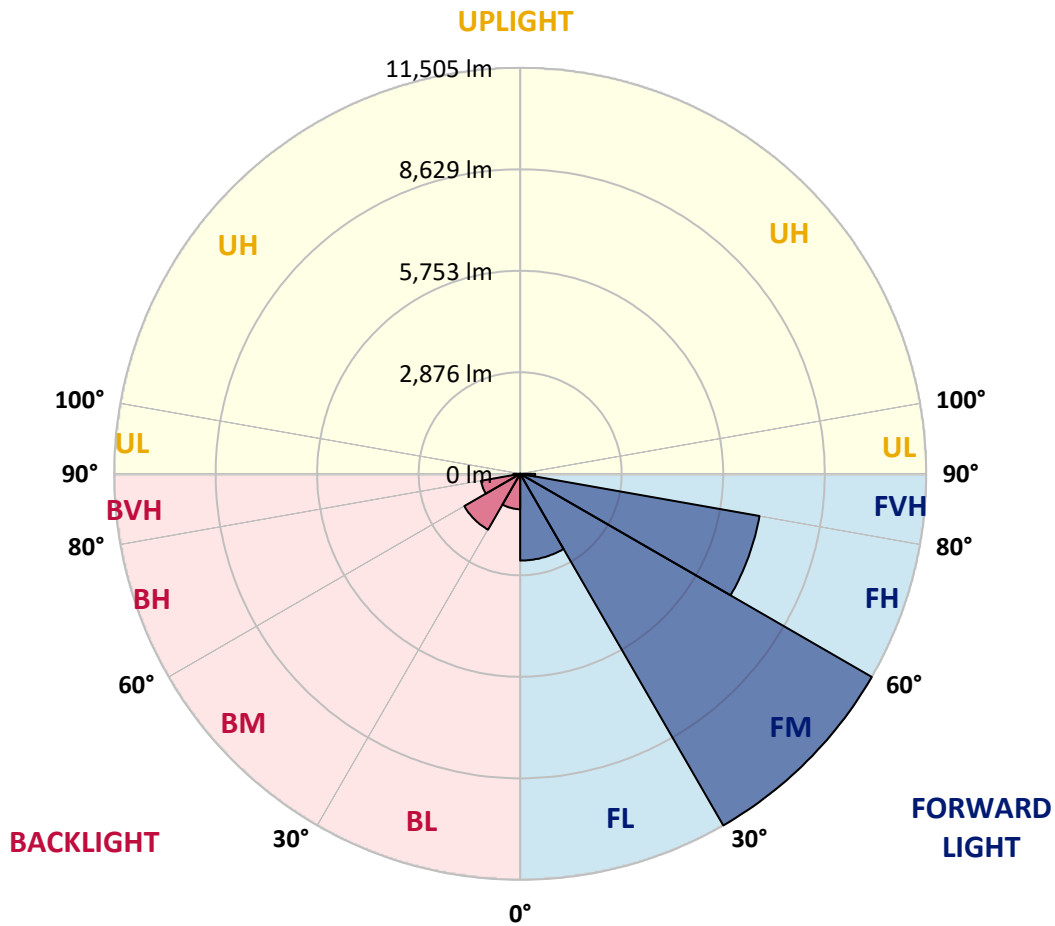
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2459.8	9.7			
FM (30°-60°)	11505.4	45.2			
FH (60°-80°)	6885.5	27.1			G3/7500
FVH (80°-90°)	426.7	1.7			G3/500
BL (0°-30°)	1002.7	3.9	B3/2500		
BM (30°-60°)	1827.9	7.2	B2/2500		
BH (60°-80°)	1126.0	4.4	B3/2500		G3/2500
BVH (80°-90°)	194.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0
2.5°	4052.8	4022.7	4019.3	3972.5	3929.0	3812.0	3728.4	3581.3	3434.1	3430.8	3283.7
5°	4684.7	4654.6	4637.9	4581.1	4507.5	4353.7	4203.2	3975.8	3725.1	3708.3	3430.8
7.5°	5112.8	5086.0	5052.6	5029.2	4958.9	4821.8	4637.9	4367.1	4022.7	3989.2	3601.3
10°	5400.3	5383.6	5376.9	5360.2	5316.7	5206.4	5029.2	4741.6	4320.3	4283.5	3781.9
12.5°	5524.0	5517.4	5547.5	5594.3	5611.0	5567.5	5397.0	5126.1	4648.0	4607.8	3999.2
15°	5380.3	5386.9	5463.9	5624.4	5794.9	5888.5	5788.2	5524.0	5019.1	4962.3	4253.4
17.5°	5313.4	5323.4	5376.9	5530.7	5771.5	6062.4	6109.2	5901.9	5376.9	5296.7	4520.9
20°	5430.4	5443.8	5483.9	5604.3	5771.5	6082.5	6326.6	6263.0	5728.0	5644.4	4778.4
22.5°	5728.0	5744.7	5741.4	5818.3	5932.0	6146.0	6447.0	6604.1	6095.8	6002.2	5045.9
25°	6363.4	6350.0	6236.3	6199.5	6229.6	6366.7	6607.5	6931.8	6480.4	6386.8	5326.8
27.5°	7226.1	7209.3	7002.0	6814.8	6647.6	6707.8	6834.8	7196.0	6871.6	6764.6	5594.3
30°	8149.0	8128.9	7888.2	7583.9	7212.7	7125.8	7109.0	7426.7	7266.2	7152.5	5878.5
32.5°	9048.5	9031.7	8774.3	8419.8	7908.2	7647.4	7486.9	7684.2	7714.3	7603.9	6189.5
35°	9867.7	9867.7	9647.0	9225.7	8647.2	8252.6	7988.5	8001.8	8229.2	8102.2	6543.9
37.5°	10596.7	10593.3	10352.6	9937.9	9382.9	8931.4	8603.7	8386.4	8720.8	8610.4	6915.1
40°	11175.2	11151.8	10974.5	10613.4	10055.0	9606.9	9275.9	8837.8	9269.2	9168.8	7309.7
42.5°	11596.5	11583.1	11462.7	11148.4	10616.7	10195.4	9968.0	9406.3	9891.1	9790.8	7771.1
45°	11760.3	11787.1	11787.1	11489.5	11068.2	10683.6	10583.3	10031.6	10563.2	10462.9	8266.0
47.5°	11496.2	11566.4	11710.2	11730.2	11359.1	11098.3	11131.7	10660.2	11255.4	11201.9	8807.7
50°	10670.2	10800.6	11115.0	11683.4	11476.1	11415.9	11599.8	11302.2	11997.7	11981.0	9466.5
52.5°	8540.2	8857.9	9837.6	10857.5	11395.9	11563.0	12064.6	12024.5	12954.1	12980.8	10325.8
55°	6550.6	6671.0	7804.6	9540.0	10904.3	11516.2	12375.6	12730.1	13990.7	14024.1	11115.0
57.5°	5296.7	5376.9	5995.5	7804.6	9784.1	11262.1	12619.7	13141.3	14786.5	14873.5	11817.2
60°	4196.5	4313.6	4728.2	5972.1	8215.8	10650.2	12790.2	13599.5	15642.5	15773.0	12656.5
62.5°	3119.8	3176.7	3567.9	4423.9	6503.8	9550.0	12700.0	14097.7	16692.5	16849.7	13666.3
65°	2220.3	2270.5	2548.0	3146.6	4808.5	8062.0	12175.0	14468.9	18010.0	18170.5	14682.9
67.5°	1661.9	1682.0	1839.1	2200.3	3240.2	6263.0	11111.6	14405.3	18973.0	19116.8	15090.8
70°	1314.1	1320.8	1397.7	1591.7	2106.6	4360.4	9249.1	13472.4	19043.2	19170.3	14575.9
72.5°	1090.1	1086.8	1130.2	1223.9	1468.0	2758.7	6851.6	11740.3	18140.4	18227.3	13138.0
75°	899.5	906.2	936.3	989.8	1120.2	1819.1	4440.6	9366.1	16003.7	15910.1	11024.7
77.5°	755.7	752.4	765.7	812.6	906.2	1307.4	2601.5	6768.0	11860.7	11813.8	7236.1
80°	608.6	615.3	635.3	675.5	762.4	996.5	1538.2	4223.3	6363.4	6192.8	3457.5
82.5°	408.0	471.5	511.6	558.4	658.7	735.6	976.4	2146.8	2845.6	2802.1	1568.3
85°	193.9	257.5	381.2	434.7	535.0	461.5	662.1	1023.2	1424.5	1407.8	565.1
87.5°	40.1	40.1	204.0	244.1	331.0	197.3	367.8	444.7	688.8	645.4	230.7
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°	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0	3180.0
2.5°	3196.7	3106.4	2925.9	2782.1	2635.0	2551.4	2447.7	2397.5	2387.5	2360.8	2380.8
5°	3253.6	3076.3	2735.3	2511.2	2360.8	2287.2	2250.4	2237.0	2233.7	2227.0	2227.0
7.5°	3330.5	3059.6	2614.9	2387.5	2290.5	2267.1	2277.2	2297.2	2300.6	2307.3	2303.9
10°	3424.1	3063.0	2548.0	2357.4	2310.6	2313.9	2347.4	2374.1	2387.5	2397.5	2394.2
12.5°	3554.5	3103.1	2538.0	2377.5	2357.4	2370.8	2404.2	2431.0	2444.4	2447.7	2447.7
15°	3725.1	3186.7	2561.4	2421.0	2404.2	2414.3	2434.3	2444.4	2447.7	2444.4	2444.4
17.5°	3912.3	3287.0	2594.8	2447.7	2421.0	2410.9	2404.2	2394.2	2374.1	2360.8	2360.8
20°	4092.9	3377.3	2611.6	2444.4	2397.5	2357.4	2317.3	2267.1	2233.7	2206.9	2206.9
22.5°	4273.4	3460.9	2611.6	2407.6	2334.0	2257.1	2173.5	2093.3	2043.1	2009.7	2009.7
25°	4464.0	3541.1	2591.5	2344.0	2233.7	2123.3	2009.7	1909.3	1859.2	1825.7	1819.1
27.5°	4624.6	3588.0	2538.0	2253.8	2110.0	1969.5	1839.1	1735.5	1698.7	1668.6	1668.6
30°	4795.1	3618.1	2437.7	2136.7	1969.5	1809.0	1675.3	1591.7	1551.5	1508.1	1504.7
32.5°	4985.7	3638.1	2324.0	2013.0	1825.7	1655.2	1541.5	1474.6	1387.7	1340.9	1334.2
35°	5206.4	3664.9	2203.6	1872.6	1682.0	1528.1	1461.3	1350.9	1267.3	1227.2	1223.9
37.5°	5440.5	3684.9	2073.2	1748.8	1551.5	1444.5	1377.7	1247.3	1173.7	1113.5	1106.8
40°	5687.9	3684.9	1939.4	1628.5	1447.9	1407.8	1280.7	1163.7	1039.9	1009.8	1003.2
42.5°	5962.1	3678.2	1805.7	1511.4	1350.9	1324.2	1223.9	1100.1	1036.6	1009.8	1003.2
45°	6253.0	3654.8	1678.6	1377.7	1250.6	1197.1	1120.2	1086.8	1060.0	1060.0	1060.0
47.5°	6584.0	3634.8	1534.8	1257.3	1177.0	1116.8	1060.0	1039.9	1036.6	1046.6	1056.7
50°	7008.7	3628.1	1414.5	1170.3	1120.2	1050.0	1043.3	1026.6	1029.9	1029.9	1029.9
52.5°	7523.7	3567.9	1300.8	1106.8	1063.3	979.7	999.8	1016.5	1023.2	1019.9	1016.5
55°	7901.5	3460.9	1203.8	1063.3	1023.2	953.0	979.7	1006.5	1013.2	1003.2	1003.2
57.5°	8242.6	3310.4	1126.9	1029.9	996.5	936.3	966.4	993.1	986.4	983.1	979.7
60°	8633.8	3166.6	1066.7	1013.2	969.7	929.6	956.3	973.1	963.0	956.3	953.0
62.5°	9058.5	3026.2	1023.2	1013.2	949.7	926.2	946.3	953.0	932.9	926.2	926.2
65°	9255.8	2805.5	976.4	1013.2	939.6	919.6	926.2	919.6	899.5	899.5	896.2
67.5°	8931.4	2441.0	916.2	999.8	953.0	909.5	896.2	886.1	862.7	862.7	856.0
70°	8035.3	2006.3	829.3	956.3	956.3	906.2	856.0	832.6	805.9	815.9	802.5
72.5°	6864.9	1591.7	722.3	882.8	936.3	902.8	812.6	775.8	752.4	762.4	742.3
75°	5560.8	1233.9	595.2	765.7	886.1	886.1	769.1	718.9	692.2	692.2	668.8
77.5°	3544.5	912.9	484.9	635.3	795.8	862.7	732.3	655.4	615.3	605.2	588.5
80°	1755.5	642.0	397.9	504.9	678.8	809.2	705.6	581.8	525.0	504.9	474.8
82.5°	932.9	444.7	317.7	394.6	541.7	729.0	672.1	501.6	431.4	401.3	367.8
85°	418.0	274.2	254.1	300.9	411.3	598.5	605.2	411.3	331.0	394.6	290.9
87.5°	153.8	123.7	123.7	153.8	237.4	250.8	428.0	264.2	210.7	143.8	113.7
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)