

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: P399589

Luminaire Tested: **ARCH-L-PA3-160-760-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399589  
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-PA3-160-760-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25097 lumens  
Efficiency: N/A  
Efficacy: 154.9 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

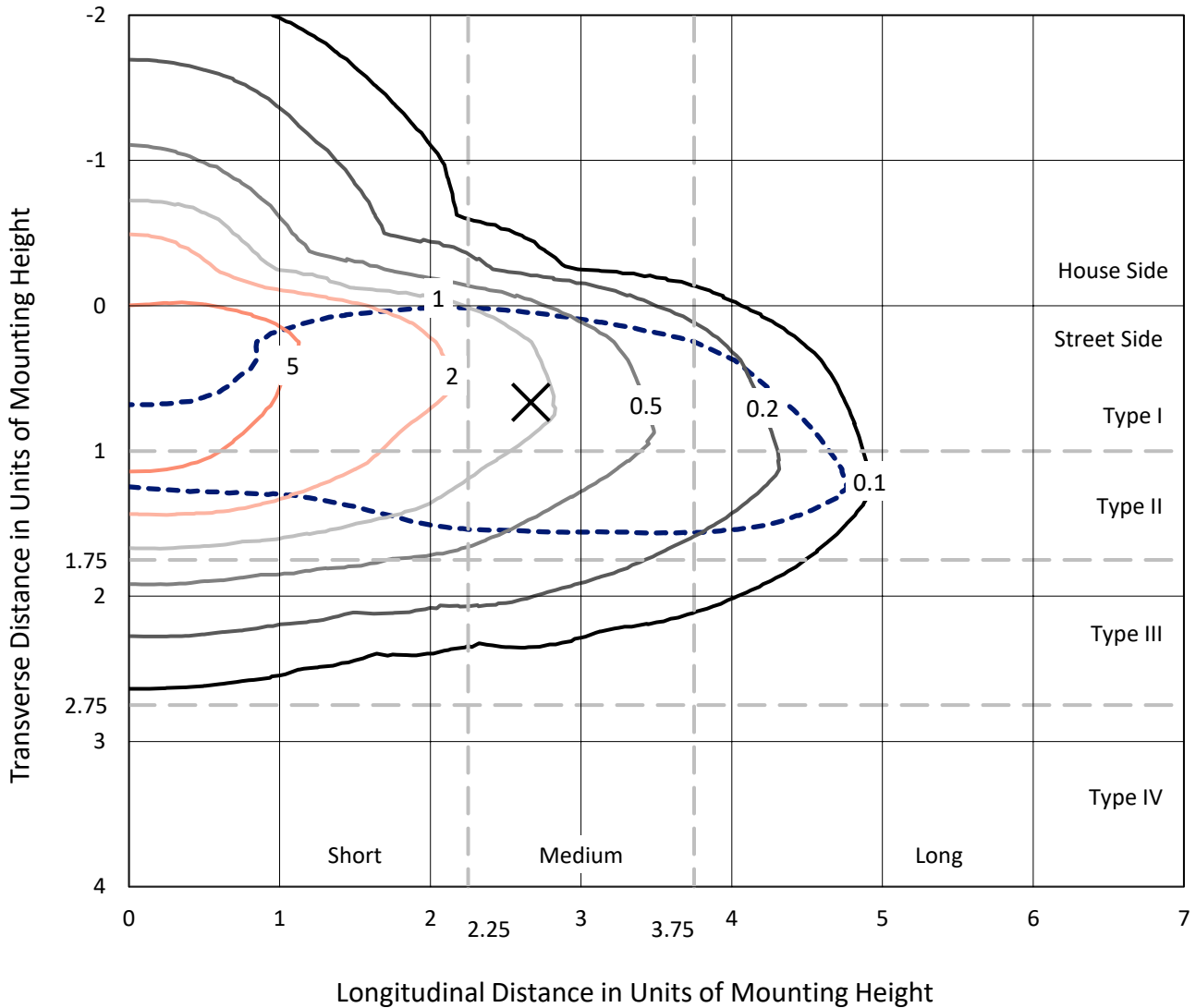
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

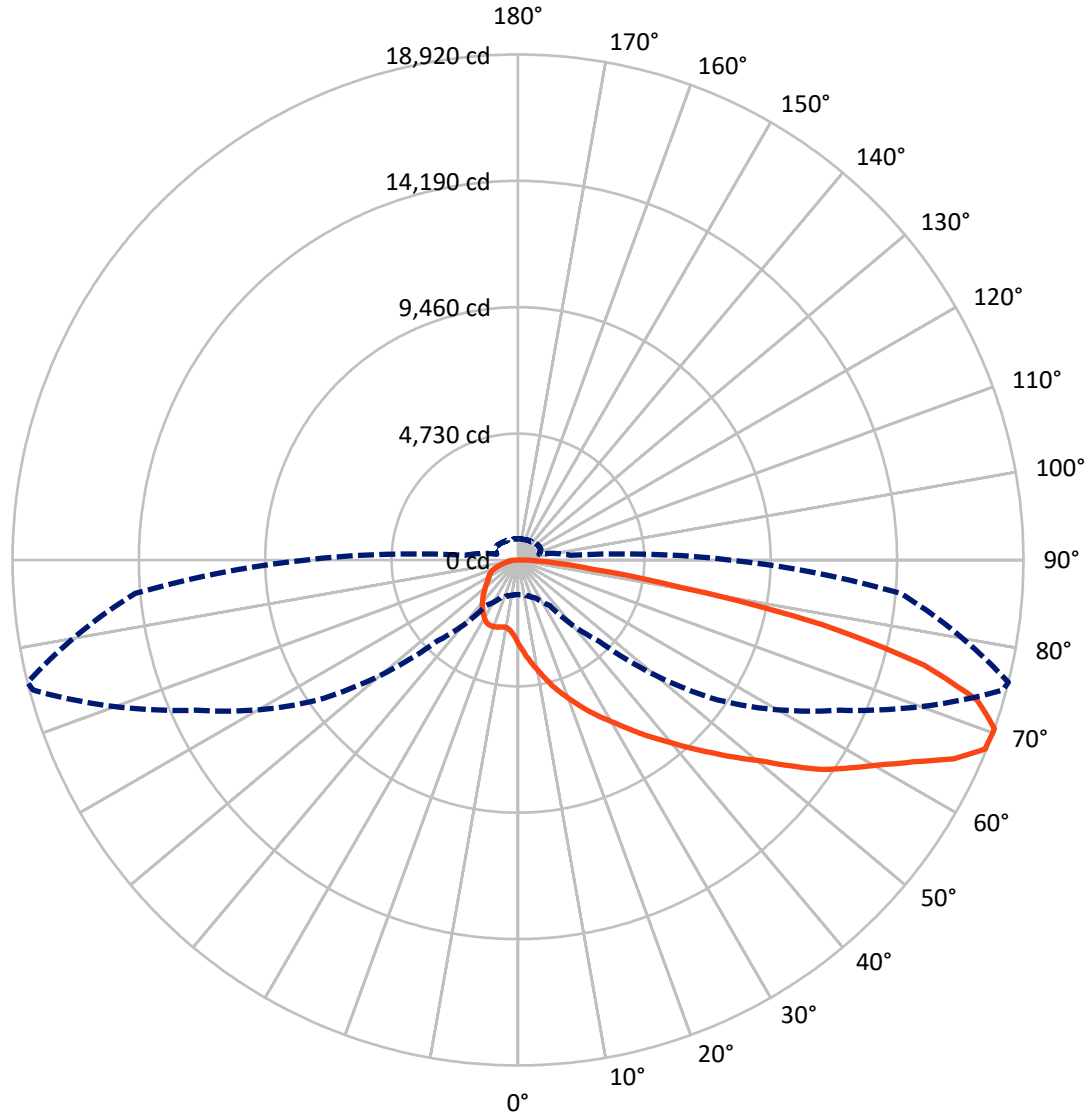
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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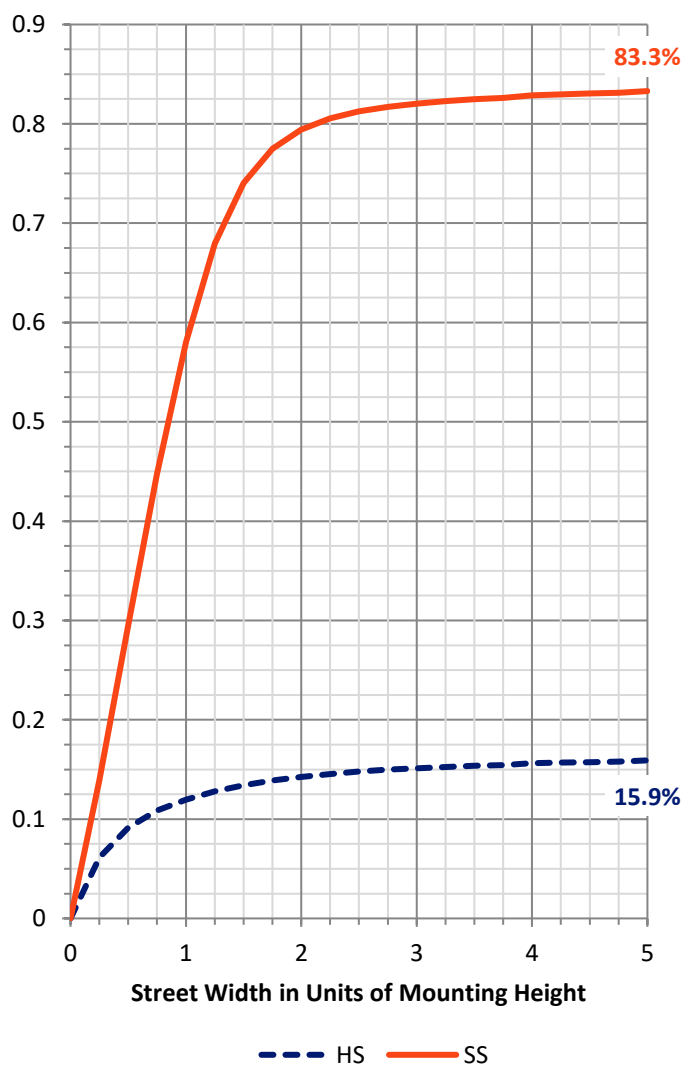
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4097.4	0.0	4097.4
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	20999.7	0.0	20999.7
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	25097.0	0.0	25097.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.1	1.3
10°-20°	1108.3	4.4
20°-30°	1982.9	7.9
30°-40°	3207.7	12.8
40°-50°	4640.4	18.5
50°-60°	5311.2	21.2
60°-70°	4885.7	19.5
70°-80°	3021.2	12.0
80°-90°	613.5	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°	25097.0	100.0
0°-180°	25097.0	100.0

**Coefficient of Utilization**

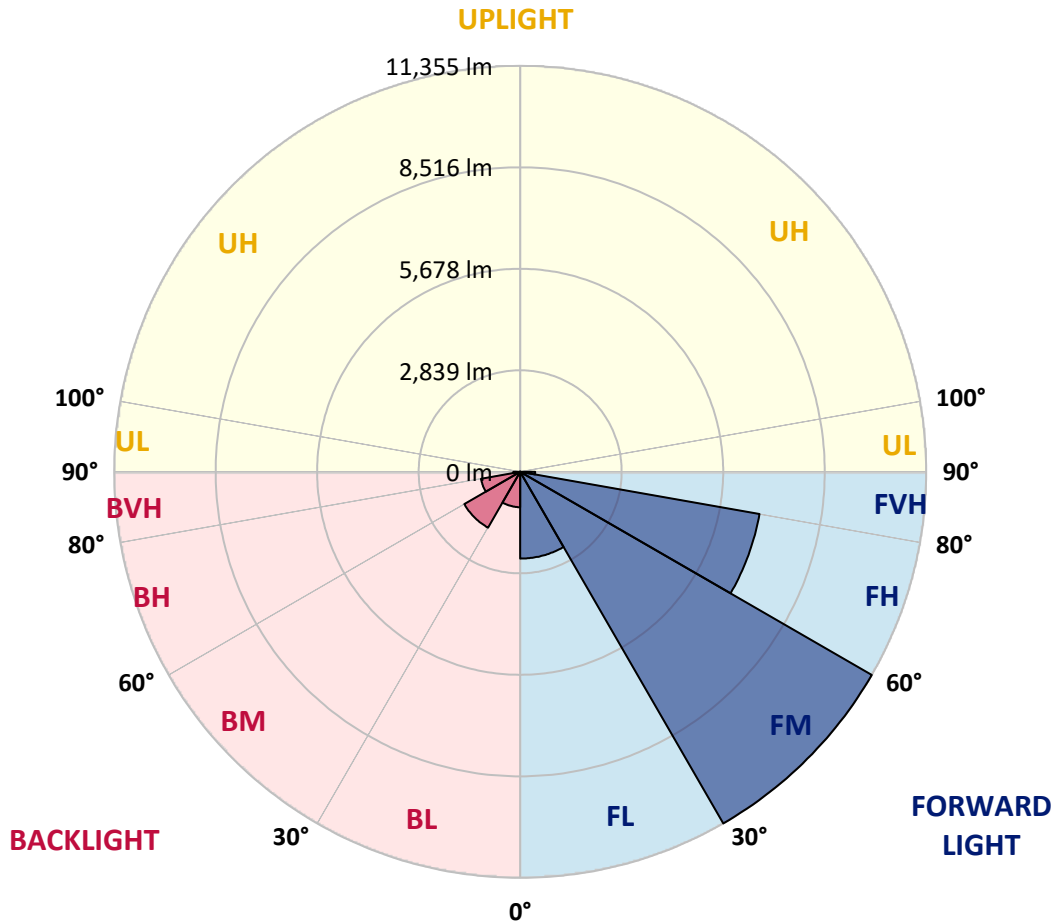


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2427.7	9.7			
FM (30°-60°)	11355.2	45.2			
FH (60°-80°)	6795.6	27.1			G3/7500
FVH (80°-90°)	421.2	1.7			G3/500
BL (0°-30°)	989.6	3.9	B2/1000		
BM (30°-60°)	1804.1	7.2	B2/2500		
BH (60°-80°)	1111.3	4.4	B3/2500		G3/2500
BVH (80°-90°)	192.3	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°	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5
2.5°	3999.8	3970.1	3966.8	3920.6	3877.7	3762.2	3679.7	3534.5	3389.3	3386.0	3240.8
5°	4623.6	4593.9	4577.4	4521.3	4448.7	4296.9	4148.3	3923.9	3676.4	3659.9	3386.0
7.5°	5046.0	5019.6	4986.6	4963.5	4894.2	4758.9	4577.4	4310.1	3970.1	3937.1	3554.3
10°	5329.8	5313.3	5306.7	5290.2	5247.3	5138.4	4963.5	4679.7	4263.9	4227.6	3732.5
12.5°	5451.9	5445.3	5475.0	5521.2	5537.7	5494.8	5326.5	5059.2	4587.3	4547.7	3947.0
15°	5310.0	5316.6	5392.5	5550.9	5719.2	5811.6	5712.6	5451.9	4953.6	4897.5	4197.9
17.5°	5244.0	5253.9	5306.7	5458.5	5696.1	5983.3	6029.5	5824.8	5306.7	5227.5	4461.9
20°	5359.5	5372.7	5412.3	5531.1	5696.1	6003.1	6244.0	6181.3	5653.2	5570.7	4716.0
22.5°	5653.2	5669.7	5666.4	5742.3	5854.5	6065.8	6362.8	6517.9	6016.3	5923.9	4980.0
25°	6280.3	6267.1	6154.9	6118.6	6148.3	6283.6	6521.2	6841.3	6395.8	6303.4	5257.2
27.5°	7131.7	7115.2	6910.6	6725.8	6560.8	6620.2	6745.6	7102.0	6781.9	6676.3	5521.2
30°	8042.6	8022.8	7785.2	7484.8	7118.5	7032.7	7016.2	7329.7	7171.3	7059.1	5801.7
32.5°	8930.3	8913.8	8659.7	8309.9	7805.0	7547.6	7389.1	7583.9	7613.6	7504.6	6108.7
35°	9738.9	9738.9	9521.1	9105.2	8534.3	8144.9	7884.2	7897.4	8121.8	7996.4	6458.5
37.5°	10458.3	10455.0	10217.4	9808.2	9260.4	8814.8	8491.4	8276.9	8606.9	8498.0	6824.8
40°	11029.3	11006.2	10831.2	10474.8	9923.7	9481.5	9154.7	8722.4	9148.1	9049.1	7214.2
42.5°	11445.1	11431.9	11313.1	11002.9	10478.1	10062.3	9837.9	9283.5	9762.0	9663.0	7669.7
45°	11606.8	11633.2	11633.2	11339.5	10923.7	10544.1	10445.1	9900.6	10425.3	10326.3	8158.1
47.5°	11346.1	11415.4	11557.3	11577.1	11210.8	10953.4	10986.4	10521.0	11108.5	11055.7	8692.7
50°	10530.9	10659.6	10969.9	11530.9	11326.3	11266.9	11448.4	11154.7	11841.1	11824.6	9342.9
52.5°	8428.7	8742.2	9709.2	10715.7	11247.1	11412.1	11907.1	11867.5	12785.0	12811.4	10191.0
55°	6465.1	6583.9	7702.7	9415.5	10761.9	11365.9	12214.0	12563.8	13808.0	13841.0	10969.9
57.5°	5227.5	5306.7	5917.3	7702.7	9656.4	11115.1	12454.9	12969.8	14593.5	14679.3	11662.9
60°	4141.7	4257.3	4666.5	5894.2	8108.6	10511.1	12623.3	13421.9	15438.3	15567.0	12491.2
62.5°	3079.1	3135.2	3521.3	4366.2	6418.9	9425.4	12534.1	13913.6	16474.6	16629.7	13487.9
65°	2191.3	2240.8	2514.8	3105.5	4745.7	7956.8	12016.0	14280.0	17774.9	17933.3	14491.2
67.5°	1640.2	1660.0	1815.1	2171.5	3197.9	6181.3	10966.6	14217.2	18725.3	18867.2	14893.8
70°	1297.0	1303.6	1379.5	1570.9	2079.1	4303.5	9128.3	13296.5	18794.6	18920.0	14385.6
72.5°	1075.9	1072.6	1115.5	1207.9	1448.8	2722.7	6762.1	11587.0	17903.6	17989.4	12966.5
75°	887.8	894.4	924.1	976.9	1105.6	1795.3	4382.7	9243.9	15794.7	15702.3	10880.7
77.5°	745.8	742.5	755.7	801.9	894.4	1290.4	2567.6	6679.6	11705.8	11659.6	7141.6
80°	600.6	607.2	627.0	666.6	752.4	983.5	1518.1	4168.1	6280.3	6112.0	3412.4
82.5°	402.6	465.3	504.9	551.1	650.1	726.0	963.7	2118.7	2808.5	2765.6	1547.8
85°	191.4	254.1	376.2	429.0	528.0	455.4	653.4	1009.9	1405.9	1389.4	557.7
87.5°	39.6	39.6	201.3	240.9	326.7	194.7	363.0	438.9	679.8	636.9	227.7
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°	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5	3138.5
2.5°	3155.0	3065.9	2887.7	2745.8	2600.6	2518.1	2415.7	2366.2	2356.3	2329.9	2349.7
5°	3211.1	3036.2	2699.6	2478.4	2329.9	2257.3	2221.0	2207.8	2204.5	2197.9	2197.9
7.5°	3287.0	3019.7	2580.8	2356.3	2260.6	2237.5	2247.4	2267.2	2270.5	2277.1	2273.8
10°	3379.4	3023.0	2514.8	2326.6	2280.4	2283.7	2316.7	2343.1	2356.3	2366.2	2362.9
12.5°	3508.1	3062.6	2504.8	2346.4	2326.6	2339.8	2372.8	2399.2	2412.4	2415.7	2415.7
15°	3676.4	3145.1	2528.0	2389.3	2372.8	2382.7	2402.5	2412.4	2415.7	2412.4	2412.4
17.5°	3861.2	3244.1	2561.0	2415.7	2389.3	2379.4	2372.8	2362.9	2343.1	2329.9	2329.9
20°	4039.4	3333.2	2577.5	2412.4	2366.2	2326.6	2287.0	2237.5	2204.5	2178.1	2178.1
22.5°	4217.7	3415.7	2577.5	2376.1	2303.5	2227.6	2145.1	2065.9	2016.4	1983.4	1983.4
25°	4405.8	3494.9	2557.7	2313.4	2204.5	2095.6	1983.4	1884.4	1834.9	1801.9	1795.3
27.5°	4564.2	3541.1	2504.8	2224.3	2082.4	1943.8	1815.1	1712.8	1676.5	1646.8	1646.8
30°	4732.5	3570.8	2405.8	2108.8	1943.8	1785.4	1653.4	1570.9	1531.3	1488.4	1485.1
32.5°	4920.6	3590.6	2293.6	1986.7	1801.9	1633.6	1521.4	1455.4	1369.6	1323.4	1316.8
35°	5138.4	3617.0	2174.8	1848.1	1660.0	1508.2	1442.2	1333.3	1250.8	1211.2	1207.9
37.5°	5369.4	3636.8	2046.1	1726.0	1531.3	1425.7	1359.7	1231.0	1158.4	1099.0	1092.4
40°	5613.6	3636.8	1914.1	1607.2	1429.0	1389.4	1264.0	1148.5	1026.4	996.7	990.1
42.5°	5884.3	3630.2	1782.1	1491.7	1333.3	1306.9	1207.9	1085.8	1023.1	996.7	990.1
45°	6171.4	3607.1	1656.7	1359.7	1234.3	1181.5	1105.6	1072.6	1046.2	1046.2	1046.2
47.5°	6498.1	3587.3	1514.8	1240.9	1161.7	1102.3	1046.2	1026.4	1023.1	1033.0	1042.9
50°	6917.2	3580.7	1396.0	1155.1	1105.6	1036.3	1029.7	1013.2	1016.5	1016.5	1016.5
52.5°	7425.4	3521.3	1283.8	1092.4	1049.5	967.0	986.8	1003.3	1009.9	1006.6	1003.3
55°	7798.4	3415.7	1188.1	1049.5	1009.9	940.6	967.0	993.4	1000.0	990.1	990.1
57.5°	8135.0	3267.2	1112.2	1016.5	983.5	924.1	953.8	980.2	973.6	970.3	967.0
60°	8521.1	3125.3	1052.8	1000.0	957.1	917.5	943.9	960.4	950.5	943.9	940.6
62.5°	8940.2	2986.7	1009.9	1000.0	937.3	914.2	934.0	940.6	920.8	914.2	914.2
65°	9134.9	2768.9	963.7	1000.0	927.4	907.6	914.2	907.6	887.8	887.8	884.5
67.5°	8814.8	2409.1	904.3	986.8	940.6	897.7	884.5	874.6	851.5	851.5	844.9
70°	7930.4	1980.1	818.4	943.9	943.9	894.4	844.9	821.7	795.3	805.2	792.0
72.5°	6775.3	1570.9	712.8	871.3	924.1	891.1	801.9	765.6	742.5	752.4	732.6
75°	5488.2	1217.8	587.4	755.7	874.6	874.6	759.0	709.5	683.1	683.1	660.0
77.5°	3498.2	901.0	478.5	627.0	785.4	851.5	722.7	646.8	607.2	597.3	580.8
80°	1732.6	633.6	392.7	498.3	669.9	798.6	696.3	574.2	518.1	498.3	468.6
82.5°	920.8	438.9	313.5	389.4	534.6	719.4	663.3	495.0	425.7	396.0	363.0
85°	412.5	270.6	250.8	297.0	405.9	590.7	597.3	405.9	326.7	389.4	287.1
87.5°	151.8	122.1	122.1	151.8	234.3	247.5	422.4	260.7	207.9	141.9	112.2
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)