

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: P573308

Luminaire Tested: **ARCH-S-PA2-60-730-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-60-730-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8586 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

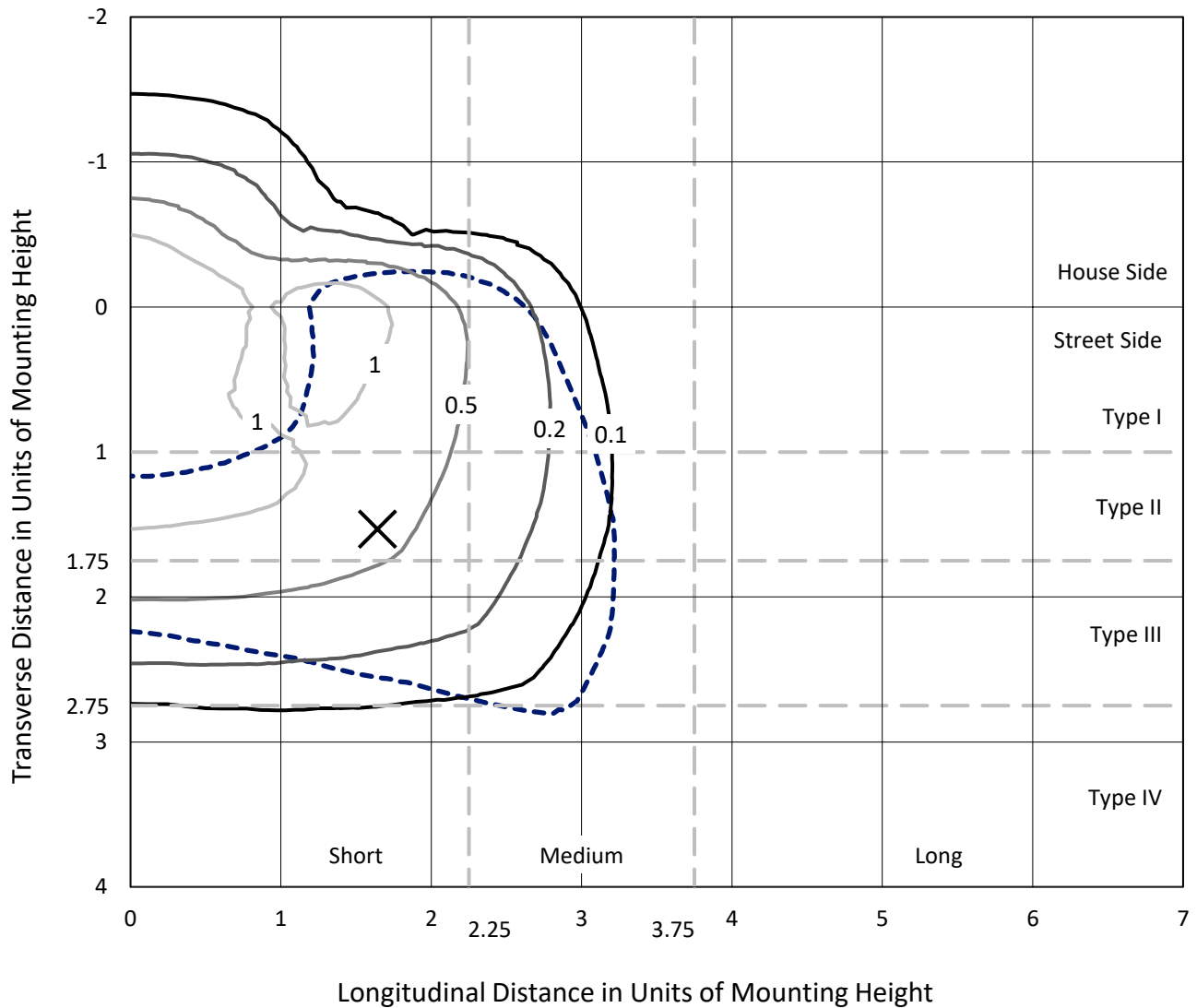
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

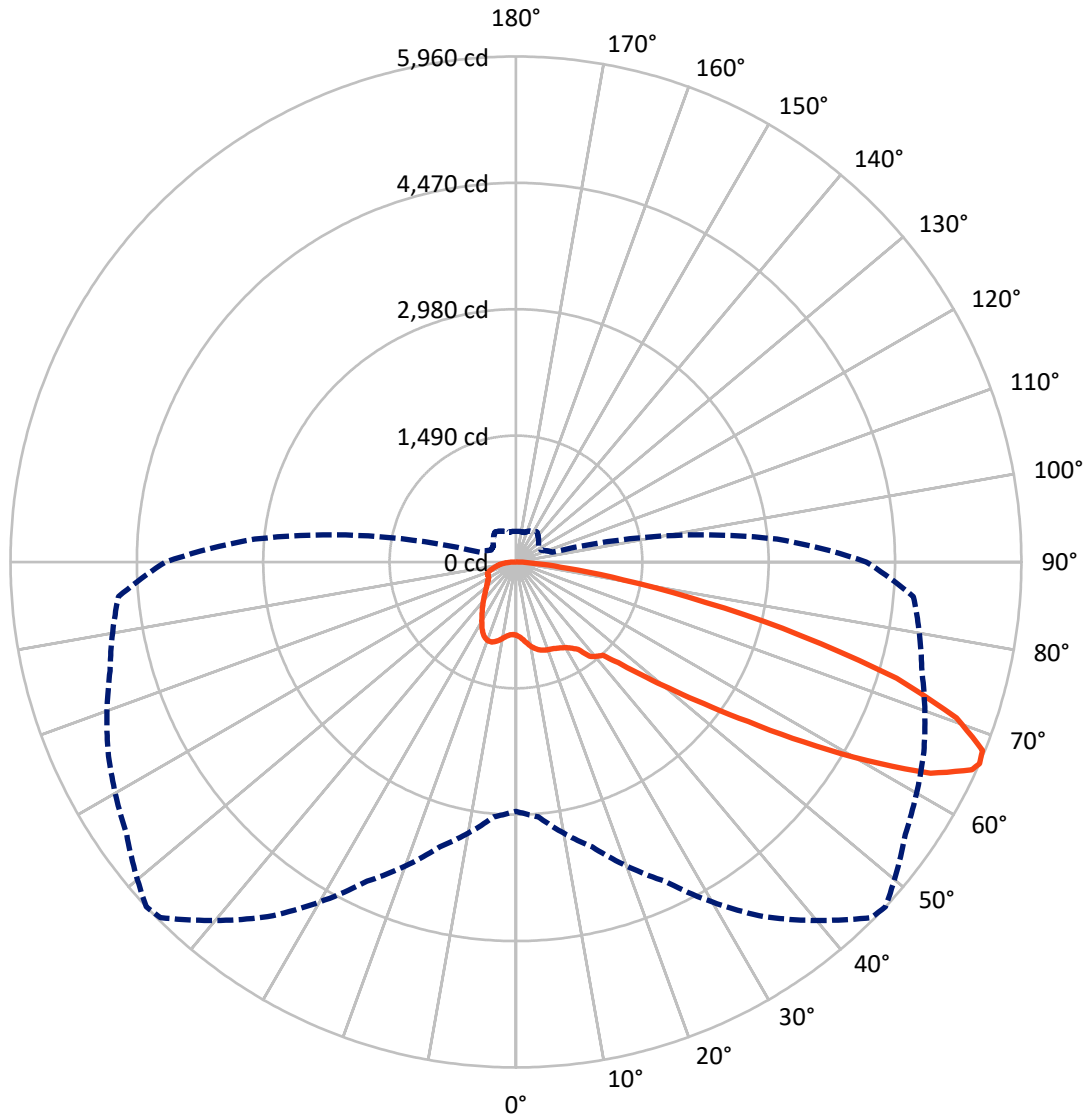
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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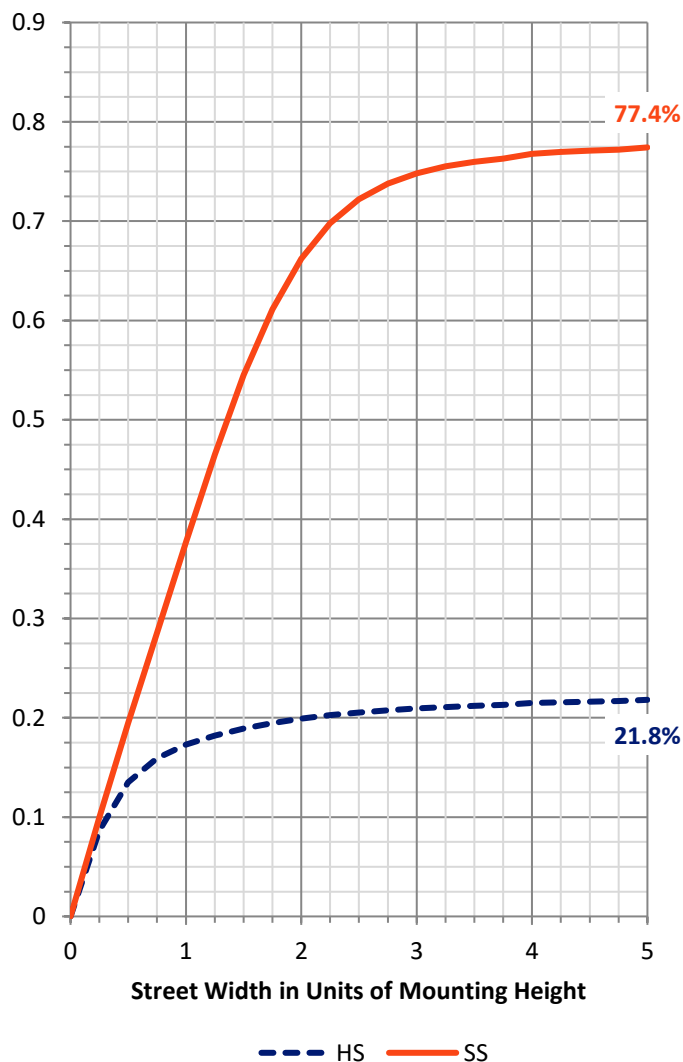
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1908.9	0.0	1908.9
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	6677.1	0.0	6677.1
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	8586.0	0.0	8586.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	1.0
10°-20°	288.2	3.4
20°-30°	480.6	5.6
30°-40°	698.0	8.1
40°-50°	1067.4	12.4
50°-60°	2017.7	23.5
60°-70°	2607.2	30.4
70°-80°	1171.9	13.6
80°-90°	167.2	1.9
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°	8586.0	100.0
0°-180°	8586.0	100.0

**Coefficient of Utilization**



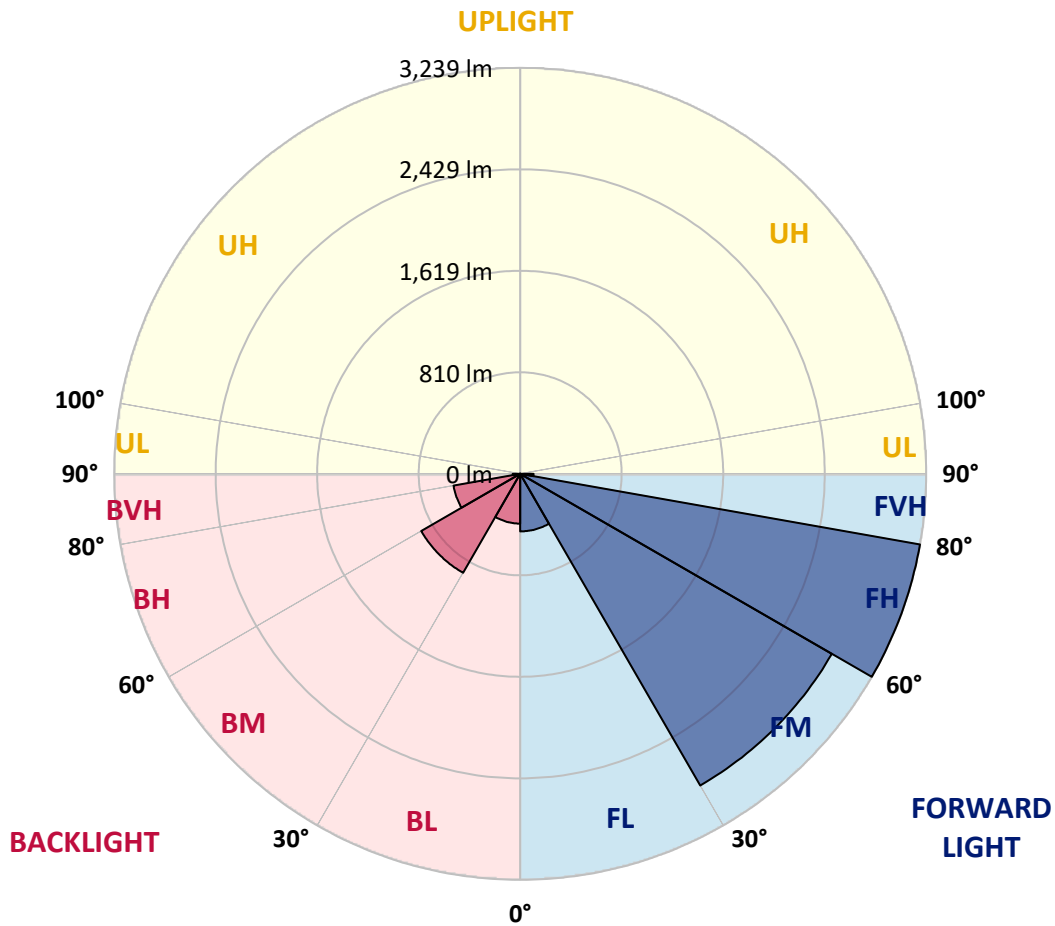
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 CATALOG NUMBER: ARCH-S-PA2-60-730-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.4	5.4			
FM (30°-60°)	2871.3	33.4			
FH (60°-80°)	3239.0	37.7			G2/5000
FVH (80°-90°)	107.4	1.3			G2/225
BL (0°-30°)	397.3	4.6	B1/500		
BM (30°-60°)	911.8	10.6	B1/1000		
BH (60°-80°)	540.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	59.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2
2.5°	912.1	905.1	900.5	898.1	893.5	884.1	884.1	881.8	872.5	867.8	865.5
5°	984.5	979.8	968.1	958.8	944.8	926.1	923.8	909.8	891.1	877.2	867.8
7.5°	1054.4	1049.8	1038.1	1024.1	1000.8	977.5	970.5	951.8	921.5	900.5	884.1
10°	1115.1	1108.1	1094.1	1075.4	1049.8	1024.1	1017.1	996.1	965.8	935.5	907.5
12.5°	1154.8	1150.1	1133.8	1110.4	1082.4	1056.8	1052.1	1033.5	1003.1	970.5	935.5
15°	1173.4	1171.1	1152.4	1129.1	1101.1	1080.1	1077.8	1061.4	1035.8	1003.1	963.5
17.5°	1168.8	1166.4	1150.1	1126.8	1105.8	1094.1	1094.1	1082.4	1061.4	1033.5	991.5
20°	1145.4	1145.4	1131.4	1115.1	1103.4	1101.1	1101.1	1098.8	1084.8	1061.4	1019.5
22.5°	1122.1	1122.1	1112.8	1101.1	1098.8	1108.1	1110.4	1115.1	1110.4	1091.8	1054.4
25°	1126.8	1124.4	1112.8	1098.8	1101.1	1122.1	1126.8	1138.4	1136.1	1122.1	1089.4
27.5°	1178.1	1175.8	1145.4	1117.4	1115.1	1140.8	1145.4	1161.8	1161.8	1150.1	1129.1
30°	1306.4	1311.1	1255.1	1185.1	1150.1	1166.4	1171.1	1189.8	1199.1	1203.8	1187.4
32.5°	1502.4	1495.4	1411.4	1297.1	1220.1	1203.8	1210.7	1227.1	1259.7	1269.1	1229.4
35°	1700.6	1705.3	1623.7	1479.0	1332.1	1271.4	1266.7	1290.1	1339.1	1297.1	1227.1
37.5°	1884.9	1877.9	1782.3	1626.0	1479.0	1409.0	1411.4	1402.0	1360.1	1276.1	1243.4
40°	2085.6	2066.9	1987.6	1787.0	1600.3	1483.7	1462.7	1383.4	1348.4	1313.4	1308.7
42.5°	2283.9	2286.2	2220.9	2022.6	1745.0	1537.3	1504.7	1423.0	1446.4	1439.4	1434.7
45°	2533.5	2533.5	2468.2	2283.9	1973.6	1738.0	1693.6	1595.7	1633.0	1661.0	1717.0
47.5°	2762.1	2748.1	2729.4	2573.1	2272.2	1999.3	1980.6	1868.6	1966.6	2052.9	2167.2
50°	3004.7	2986.0	2974.4	2878.7	2664.1	2395.8	2339.8	2223.2	2437.8	2598.8	2811.1
52.5°	3382.6	3350.0	3289.3	3235.7	3151.7	2841.4	2771.4	2685.1	2962.7	3165.7	3599.6
55°	3723.2	3695.2	3636.9	3676.6	3664.9	3382.6	3322.0	3240.3	3541.3	3788.5	4285.4
57.5°	3849.2	3851.5	3930.9	4143.1	4255.1	4091.8	4005.5	3923.9	4178.1	4292.4	4740.3
60°	3907.5	3900.5	4105.8	4451.1	4815.0	4864.0	4754.3	4586.4	4682.0	4689.0	5125.3
62.5°	3781.5	3800.2	4082.5	4579.4	5150.9	5503.2	5486.9	5192.9	5104.3	5006.3	5227.9
65°	3303.3	3329.0	3744.2	4350.8	5204.6	5890.4	5906.8	5563.8	5316.6	5043.6	4936.3
66°	2939.4	3016.4	3478.3	4152.5	5106.6	5930.1	5960.4	5603.5	5307.2	4955.0	4705.4
67.5°	2465.8	2461.2	2976.7	3716.2	4833.7	5895.1	5934.8	5547.5	5181.3	4693.7	4243.5
70°	1509.4	1556.0	1999.3	2773.8	4000.8	5458.9	5512.5	5153.3	4637.7	3975.2	3137.7
72.5°	774.5	851.5	1143.1	1803.3	2904.4	4511.7	4693.7	4327.4	3790.9	2876.4	1915.3
75°	410.6	405.9	538.9	977.5	1854.6	3385.0	3480.6	3245.0	2619.8	1714.6	975.1
77.5°	219.3	231.0	282.3	501.6	1019.5	2162.6	2283.9	2092.6	1493.0	877.2	466.6
80°	149.3	156.3	191.3	282.3	552.9	1173.4	1285.4	1115.1	781.5	415.2	219.3
82.5°	95.6	100.3	130.6	175.0	331.3	569.2	599.5	571.5	382.6	235.6	133.0
85°	58.3	60.7	79.3	112.0	207.6	231.0	240.3	242.6	214.6	154.0	72.3
87.5°	28.0	30.3	44.3	56.0	98.0	84.0	77.0	79.3	119.0	91.0	32.7
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°	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2	863.2
2.5°	863.2	860.8	856.2	853.8	856.2	856.2	856.2	858.5	863.2	863.2	865.5
5°	863.2	858.5	853.8	853.8	858.5	863.2	867.8	877.2	881.8	884.1	884.1
7.5°	874.8	870.2	865.5	865.5	872.5	881.8	891.1	902.8	914.5	923.8	923.8
10°	898.1	891.1	886.5	888.8	900.5	912.1	923.8	937.8	949.5	961.1	961.1
12.5°	923.8	916.8	909.8	914.5	930.8	944.8	956.5	963.5	975.1	984.5	984.5
15°	949.5	937.8	935.5	944.8	961.1	970.5	975.1	975.1	979.8	989.1	989.1
17.5°	977.5	965.8	963.5	972.8	986.8	986.8	977.5	970.5	968.1	975.1	977.5
20°	1005.5	993.8	993.8	1000.8	998.5	982.1	965.8	954.1	944.8	951.8	954.1
22.5°	1040.5	1028.8	1024.1	1014.8	993.8	961.1	935.5	921.5	914.5	919.1	923.8
25°	1075.4	1066.1	1054.4	1021.8	972.8	921.5	888.8	877.2	879.5	888.8	893.5
27.5°	1119.8	1115.1	1087.1	1017.1	935.5	865.5	832.8	830.5	839.8	853.8	860.8
30°	1173.4	1166.4	1117.4	1003.1	884.1	800.2	776.8	781.5	795.5	807.2	814.2
32.5°	1210.7	1206.1	1131.4	970.5	821.2	741.8	723.2	723.2	730.2	746.5	753.5
35°	1222.4	1241.1	1140.8	921.5	746.5	690.5	671.9	660.2	660.2	674.2	678.9
37.5°	1262.1	1304.1	1145.4	856.2	685.9	643.9	620.5	599.5	592.5	590.2	590.2
40°	1353.1	1402.0	1143.1	772.2	627.5	597.2	569.2	545.9	527.2	501.6	503.9
42.5°	1511.7	1549.0	1136.1	683.5	576.2	555.2	527.2	499.2	468.9	440.9	438.6
45°	1817.3	1761.3	1117.4	606.5	529.6	517.9	492.2	459.6	422.2	396.6	396.6
47.5°	2300.2	2146.2	1105.8	534.2	487.6	485.2	461.9	426.9	389.6	370.9	368.6
50°	2962.7	2678.1	1124.4	482.9	450.2	457.2	438.6	405.9	375.6	359.3	356.9
52.5°	3723.2	3249.7	1145.4	450.2	422.2	436.2	426.9	396.6	366.3	352.3	349.9
55°	4311.1	3713.9	1115.1	419.9	394.3	415.2	415.2	387.3	361.6	347.6	347.6
57.5°	4724.0	3900.5	1010.1	391.9	370.9	396.6	403.6	382.6	359.3	354.6	354.6
60°	4901.3	3891.2	825.8	366.3	354.6	377.9	396.6	377.9	363.9	375.6	377.9
62.5°	4805.7	3688.2	641.5	347.6	342.9	373.3	403.6	396.6	380.3	389.6	394.3
65°	4374.1	3331.3	482.9	331.3	328.9	375.6	422.2	408.2	368.6	370.9	373.3
66°	4131.5	3091.0	443.2	326.6	324.3	377.9	431.6	403.6	359.3	363.9	361.6
67.5°	3613.6	2713.1	389.6	317.3	314.9	377.9	443.2	394.3	347.6	354.6	347.6
70°	2650.1	1919.9	333.6	305.6	300.9	370.9	440.9	375.6	321.9	317.3	305.6
72.5°	1537.3	1161.8	296.3	291.6	279.9	326.6	412.9	345.3	293.9	279.9	268.3
75°	755.8	590.2	263.6	275.3	244.9	286.9	373.3	319.6	270.6	251.9	244.9
77.5°	347.6	298.6	238.0	251.9	217.0	247.3	340.6	291.6	240.3	212.3	205.3
80°	189.0	186.6	200.6	210.0	182.0	217.0	300.9	254.3	203.0	172.6	163.3
82.5°	116.6	119.0	147.0	161.0	142.3	189.0	265.9	212.3	154.0	121.3	123.6
85°	60.7	67.7	98.0	107.3	93.3	140.0	200.6	142.3	86.3	63.0	63.0
87.5°	21.0	28.0	49.0	58.3	51.3	84.0	126.0	67.7	18.7	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)