

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: P572891

Luminaire Tested: **ARCH-S-PA2-130-727-U-T3-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-130-727-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

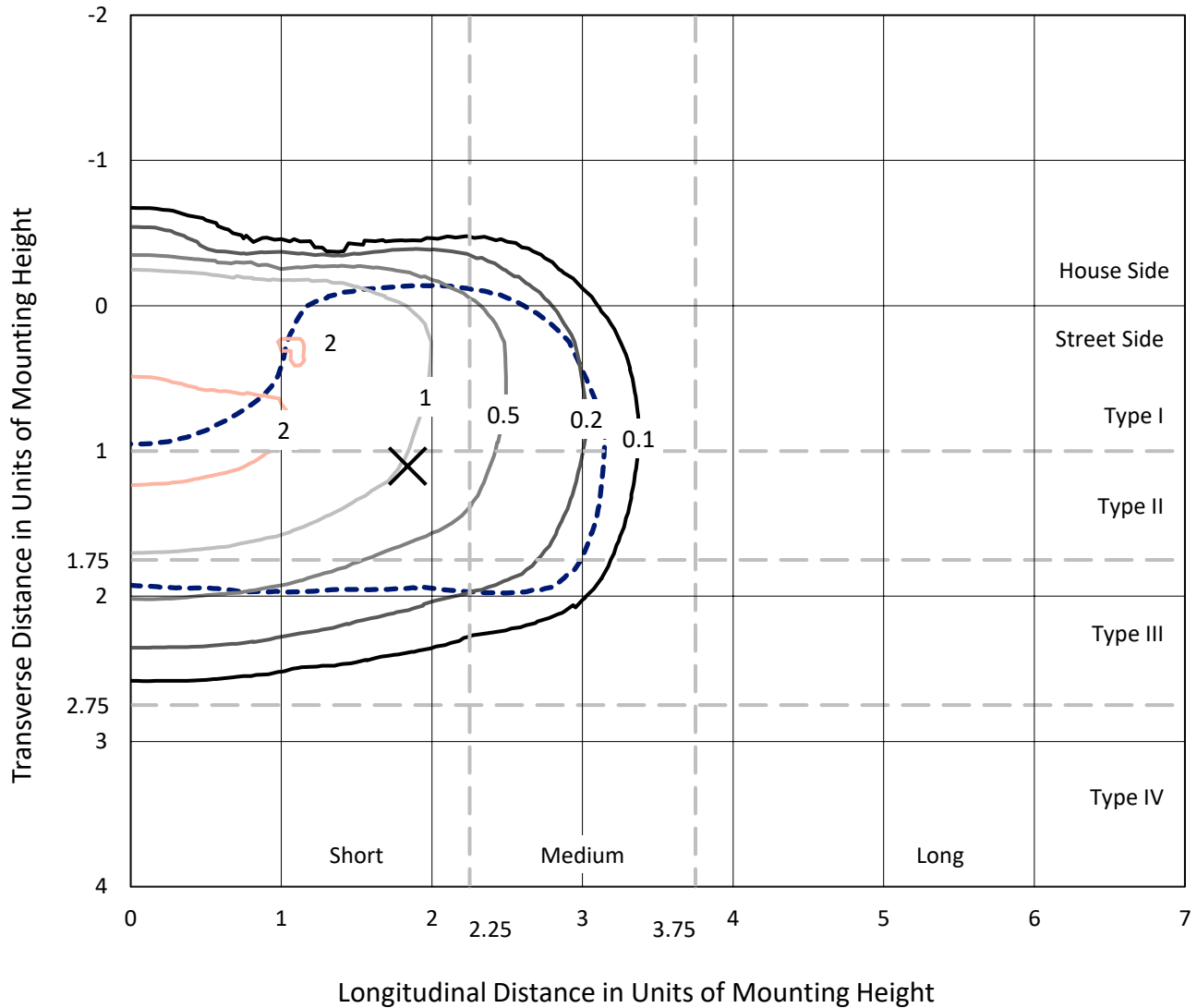
Lumens per Lamp: N/A  
Luminaire Lumens: 10088 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

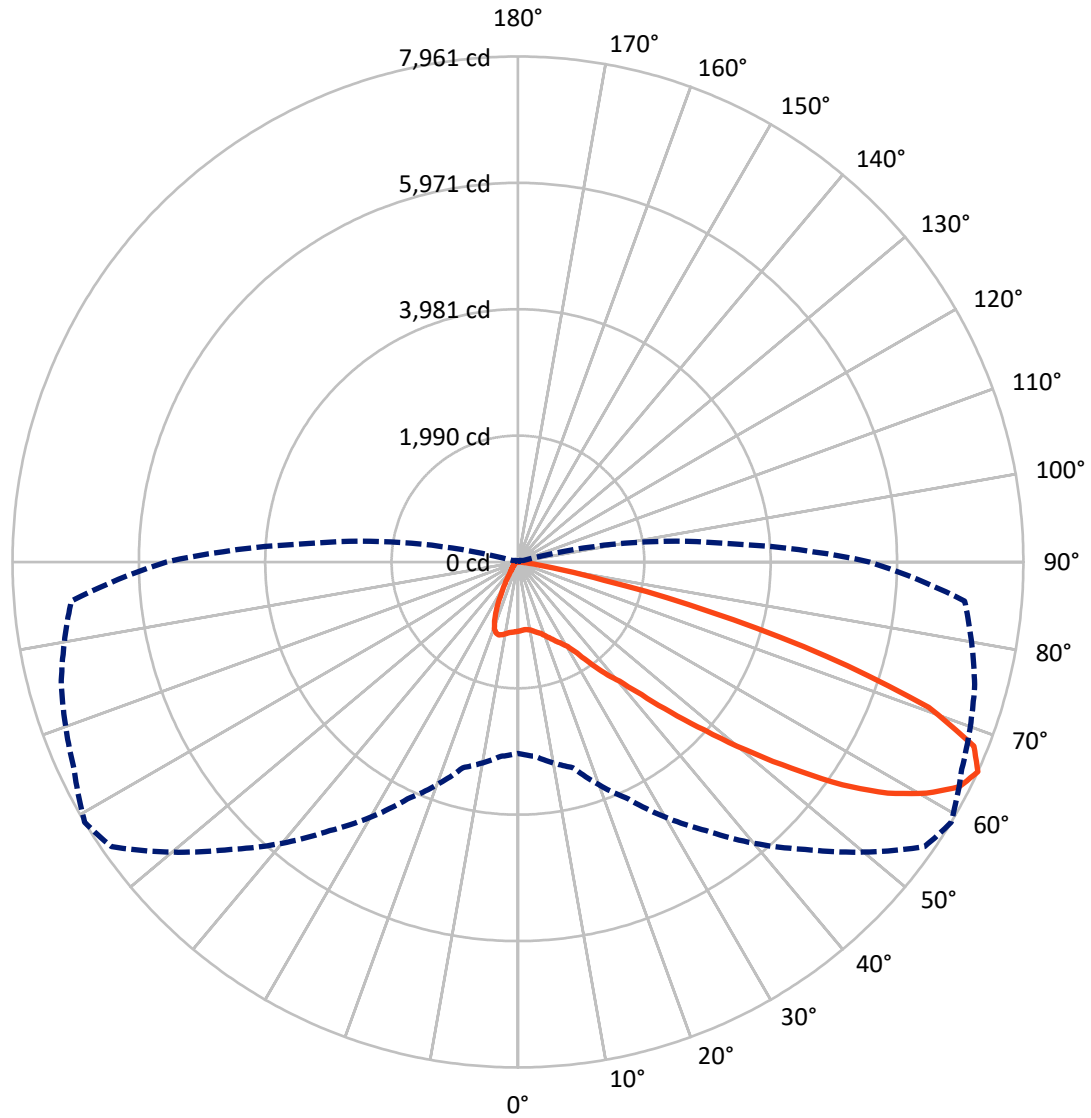
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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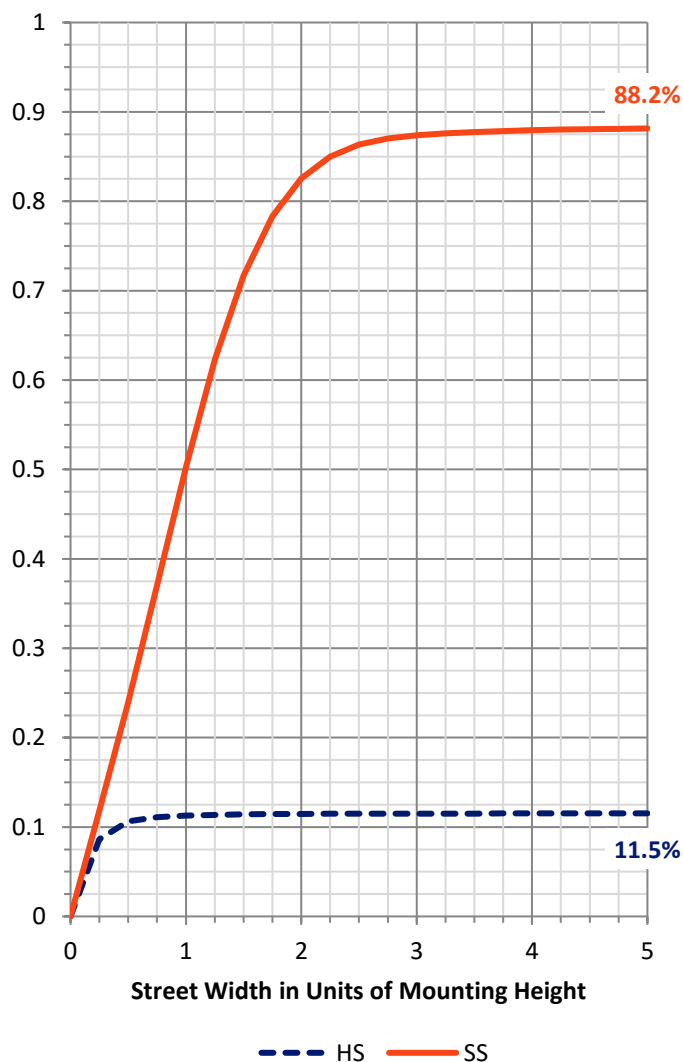
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1176.9	0.0	1176.9
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	8911.1	0.0	8911.1
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	10088.0	0.0	10088.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.0	1.0
10°-20°	292.7	2.9
20°-30°	497.0	4.9
30°-40°	880.5	8.7
40°-50°	1660.9	16.5
50°-60°	2810.2	27.9
60°-70°	2921.7	29.0
70°-80°	876.1	8.7
80°-90°	45.9	0.5
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°	10088.0	100.0
0°-180°	10088.0	100.0

**Coefficient of Utilization**



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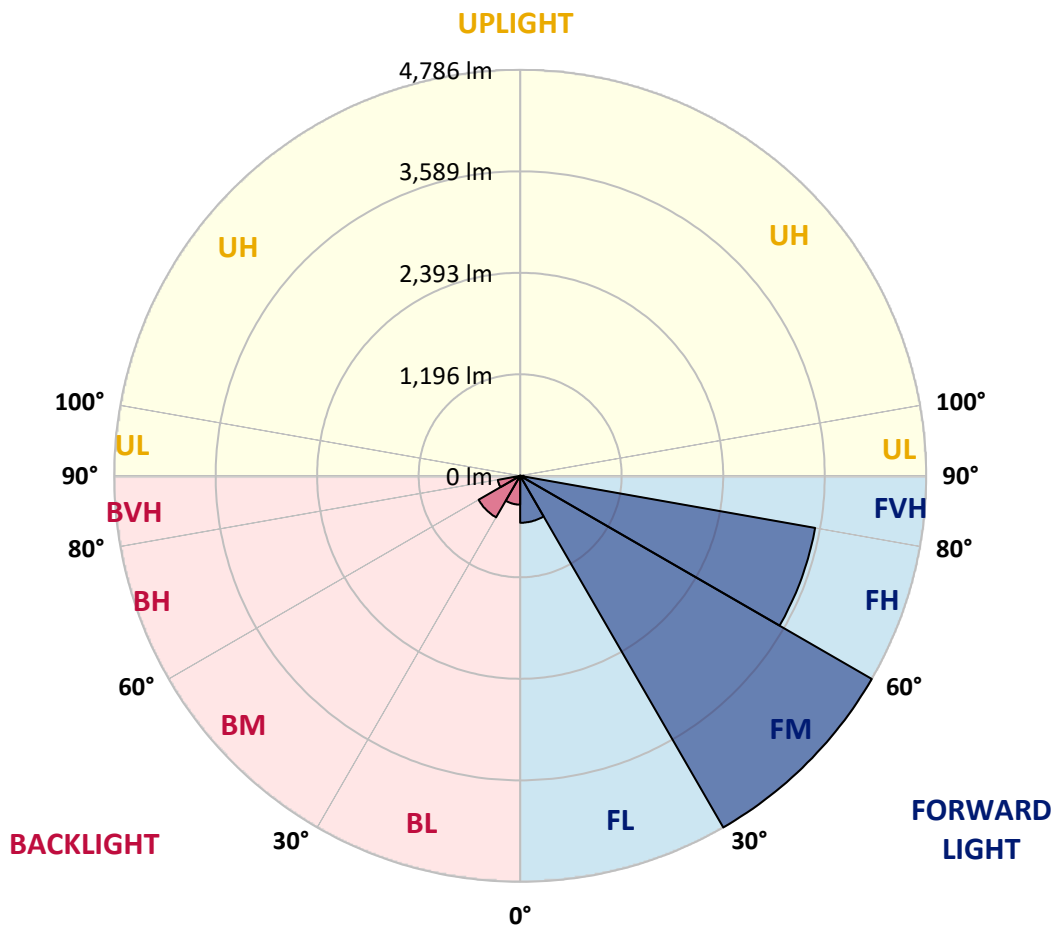
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.2	5.5			
FM (30°-60°)	4785.8	47.4			
FH (60°-80°)	3530.1	35.0			G2/5000
FVH (80°-90°)	42.1	0.4			G1/100
BL (0°-30°)	339.5	3.4	B1/500		
BM (30°-60°)	565.7	5.6	B1/1000		
BH (60°-80°)	267.8	2.7	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1
2.5°	1060.7	1057.1	1057.1	1064.4	1068.1	1071.8	1079.1	1079.1	1079.1	1086.4	1090.1
5°	1009.4	1009.4	1013.0	1020.4	1035.1	1046.1	1068.1	1071.8	1075.4	1093.8	1101.1
7.5°	976.3	976.3	980.0	994.7	1013.0	1038.7	1068.1	1075.4	1086.4	1112.1	1130.5
10°	972.7	969.0	976.3	991.0	1013.0	1046.1	1079.1	1090.1	1112.1	1145.2	1170.9
12.5°	983.7	980.0	987.3	1002.0	1024.0	1057.1	1101.1	1119.5	1145.2	1189.2	1225.9
15°	991.0	987.3	994.7	1013.0	1038.7	1079.1	1130.5	1152.5	1185.5	1247.9	1284.6
17.5°	1013.0	1009.4	1013.0	1027.7	1053.4	1097.4	1163.5	1185.5	1240.6	1310.3	1350.7
20°	1112.1	1108.5	1086.4	1079.1	1082.8	1123.1	1207.6	1244.3	1310.3	1398.4	1427.8
22.5°	1317.7	1303.0	1262.6	1196.6	1152.5	1167.2	1262.6	1303.0	1391.1	1490.2	1512.2
25°	1593.0	1581.9	1523.2	1409.4	1284.6	1247.9	1325.0	1380.1	1486.5	1596.6	1589.3
27.5°	1904.9	1882.9	1827.9	1670.0	1501.2	1380.1	1402.1	1449.8	1567.3	1684.7	1648.0
30°	2176.5	2169.2	2106.8	1974.7	1776.5	1596.6	1519.5	1545.2	1651.7	1776.5	1732.4
32.5°	2426.1	2404.1	2352.7	2227.9	2044.4	1860.9	1706.7	1706.7	1794.8	1941.6	1875.6
35°	2701.4	2686.7	2624.3	2499.5	2323.4	2106.8	1967.3	1952.7	2026.1	2191.2	2048.1
37.5°	2984.0	2947.3	2918.0	2789.5	2613.3	2426.1	2257.3	2224.3	2261.0	2382.1	2205.9
40°	3336.4	3336.4	3270.3	3152.9	2987.7	2789.5	2554.6	2470.2	2459.2	2617.0	2481.2
42.5°	3747.5	3736.5	3681.4	3571.3	3413.5	3230.0	2932.6	2855.6	2848.2	3039.1	2877.6
45°	4221.0	4213.6	4147.6	4055.8	3945.7	3743.8	3450.2	3373.1	3329.1	3549.3	3358.4
47.5°	4654.1	4628.4	4606.4	4617.4	4555.0	4327.4	4052.1	3960.4	3956.7	4129.2	3883.3
50°	4951.4	4936.7	5013.8	5087.2	5204.6	5061.5	4734.8	4654.1	4591.7	4819.2	4430.2
52.5°	5145.9	5138.6	5292.7	5501.9	5744.2	5733.2	5443.2	5395.5	5344.1	5406.5	4918.3
55°	5223.0	5223.0	5406.5	5791.9	6217.7	6401.2	6265.4	6199.3	6019.5	5891.0	5454.2
57.5°	5131.2	5120.2	5358.8	5861.6	6511.3	6889.3	6948.1	6871.0	6588.4	6445.2	6048.8
60°	4742.2	4749.5	5032.1	5667.1	6489.3	7087.5	7465.6	7395.9	7113.2	6900.4	6548.0
62.5°	4015.4	4077.8	4375.1	5065.2	6019.5	6929.7	7762.9	7799.6	7495.0	7230.7	6992.1
65°	3017.1	3072.1	3354.7	4118.2	5164.3	6401.2	7818.0	7961.1	7715.2	7447.2	7061.8
67.5°	1835.2	1853.6	2198.6	2774.8	3802.5	5333.1	7432.6	7744.5	7568.4	7127.9	6371.8
70°	855.2	902.9	1071.8	1515.9	2407.8	3927.3	6423.2	6863.6	6665.4	6118.6	4844.9
72.5°	334.0	348.7	455.1	701.0	1277.3	2470.2	4793.5	5087.2	4951.4	4345.8	2888.6
75°	165.2	176.2	220.2	334.0	583.6	1020.4	2929.0	3119.8	2895.9	2183.9	1222.2
77.5°	121.1	121.1	146.8	205.5	319.3	378.1	1233.3	1383.7	1306.7	844.2	334.0
80°	80.7	88.1	102.8	139.5	201.9	183.5	466.1	554.2	462.5	260.6	117.5
82.5°	47.7	51.4	77.1	99.1	135.8	106.4	157.8	176.2	190.9	128.5	55.1
85°	25.7	25.7	51.4	73.4	73.4	47.7	55.1	62.4	73.4	77.1	29.4
87.5°	7.3	7.3	33.0	44.0	29.4	25.7	29.4	29.4	33.0	40.4	14.7
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°	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1	1090.1
2.5°	1093.8	1093.8	1097.4	1097.4	1101.1	1101.1	1101.1	1101.1	1104.8	1108.5	1108.5
5°	1104.8	1108.5	1108.5	1108.5	1108.5	1101.1	1097.4	1093.8	1093.8	1097.4	1097.4
7.5°	1134.2	1137.8	1134.2	1126.8	1115.8	1101.1	1086.4	1086.4	1082.8	1086.4	1082.8
10°	1178.2	1178.2	1174.5	1156.2	1137.8	1108.5	1079.1	1057.1	1042.4	1038.7	1031.4
12.5°	1233.3	1233.3	1222.2	1189.2	1156.2	1101.1	1024.0	950.6	891.9	866.2	858.9
15°	1288.3	1288.3	1273.6	1225.9	1159.8	1027.7	866.2	712.1	624.0	587.3	565.2
17.5°	1354.4	1347.0	1321.3	1255.3	1119.5	880.9	620.3	462.5	392.7	359.7	359.7
20°	1424.1	1416.8	1369.1	1258.9	1016.7	631.3	403.7	319.3	301.0	293.6	293.6
22.5°	1501.2	1482.8	1409.4	1229.6	800.1	429.4	304.6	282.6	275.3	271.6	271.6
25°	1563.6	1534.2	1438.8	1148.8	572.6	301.0	267.9	260.6	245.9	242.2	234.9
27.5°	1611.3	1567.3	1449.8	976.3	378.1	249.6	238.6	223.9	209.2	194.5	194.5
30°	1673.7	1618.6	1457.1	759.8	256.9	216.6	205.5	187.2	168.8	154.2	154.2
32.5°	1798.5	1717.7	1460.8	532.2	212.9	190.9	168.8	146.8	128.5	121.1	117.5
35°	1934.3	1824.2	1420.4	345.0	187.2	161.5	135.8	117.5	99.1	95.4	95.4
37.5°	2084.8	1982.0	1332.4	234.9	165.2	135.8	110.1	91.8	80.7	77.1	77.1
40°	2338.0	2216.9	1185.5	187.2	143.1	113.8	91.8	77.1	69.7	66.1	66.1
42.5°	2701.4	2492.2	1002.0	161.5	124.8	95.4	73.4	62.4	58.7	55.1	55.1
45°	3119.8	2800.5	789.1	146.8	110.1	80.7	62.4	55.1	51.4	47.7	47.7
47.5°	3600.7	3119.8	624.0	128.5	95.4	69.7	55.1	47.7	44.0	40.4	40.4
50°	4055.8	3369.4	469.8	113.8	84.4	58.7	47.7	44.0	40.4	36.7	36.7
52.5°	4430.2	3538.3	356.0	99.1	73.4	51.4	44.0	40.4	33.0	33.0	33.0
55°	4881.6	3670.4	271.6	88.1	66.1	47.7	40.4	33.0	29.4	25.7	25.7
57.5°	5274.4	3718.1	198.2	77.1	58.7	44.0	36.7	29.4	22.0	18.4	18.4
60°	5538.6	3677.7	143.1	66.1	51.4	36.7	29.4	22.0	14.7	11.0	11.0
62.5°	5725.8	3589.7	110.1	58.7	44.0	33.0	25.7	18.4	11.0	7.3	7.3
65°	5538.6	3318.0	88.1	51.4	36.7	29.4	18.4	14.7	7.3	3.7	3.7
67.5°	4789.9	2782.2	69.7	44.0	33.0	25.7	18.4	11.0	3.7	0.0	0.0
70°	3442.8	1985.7	58.7	40.4	29.4	22.0	14.7	7.3	3.7	0.0	0.0
72.5°	1919.6	1024.0	55.1	36.7	29.4	22.0	14.7	7.3	3.7	0.0	0.0
75°	778.1	352.4	51.4	36.7	29.4	18.4	14.7	7.3	3.7	0.0	0.0
77.5°	227.6	121.1	44.0	33.0	29.4	22.0	14.7	7.3	3.7	0.0	0.0
80°	80.7	55.1	33.0	29.4	22.0	18.4	14.7	11.0	3.7	0.0	0.0
82.5°	36.7	22.0	14.7	11.0	11.0	11.0	11.0	7.3	3.7	0.0	0.0
85°	14.7	11.0	7.3	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0
87.5°	11.0	7.3	3.7	3.7	3.7	3.7	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)