

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: P258045

Luminaire Tested: **ARCH-L-AF72-90-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P258045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-90-D-U-T2U-7030-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8738.5 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

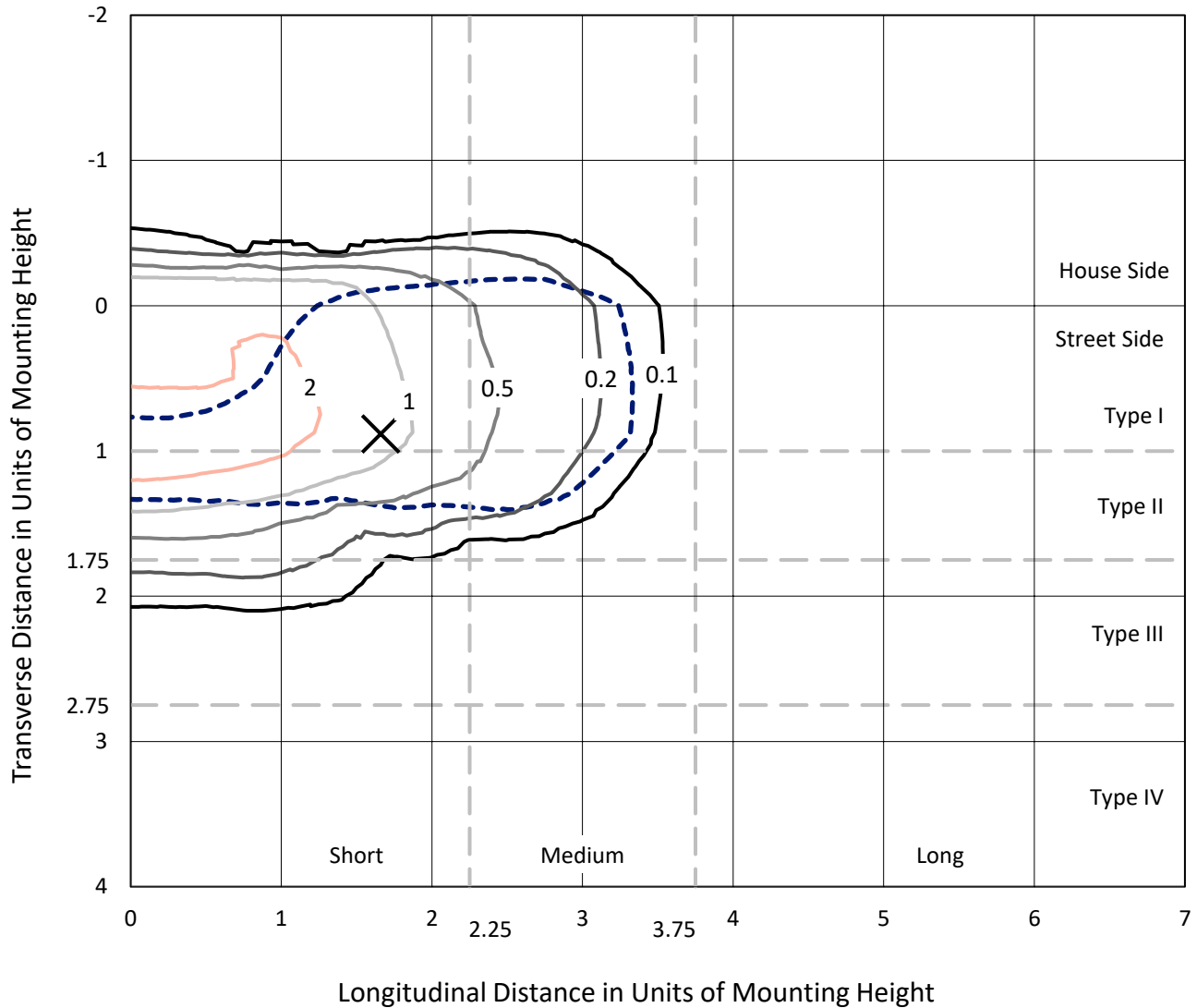
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

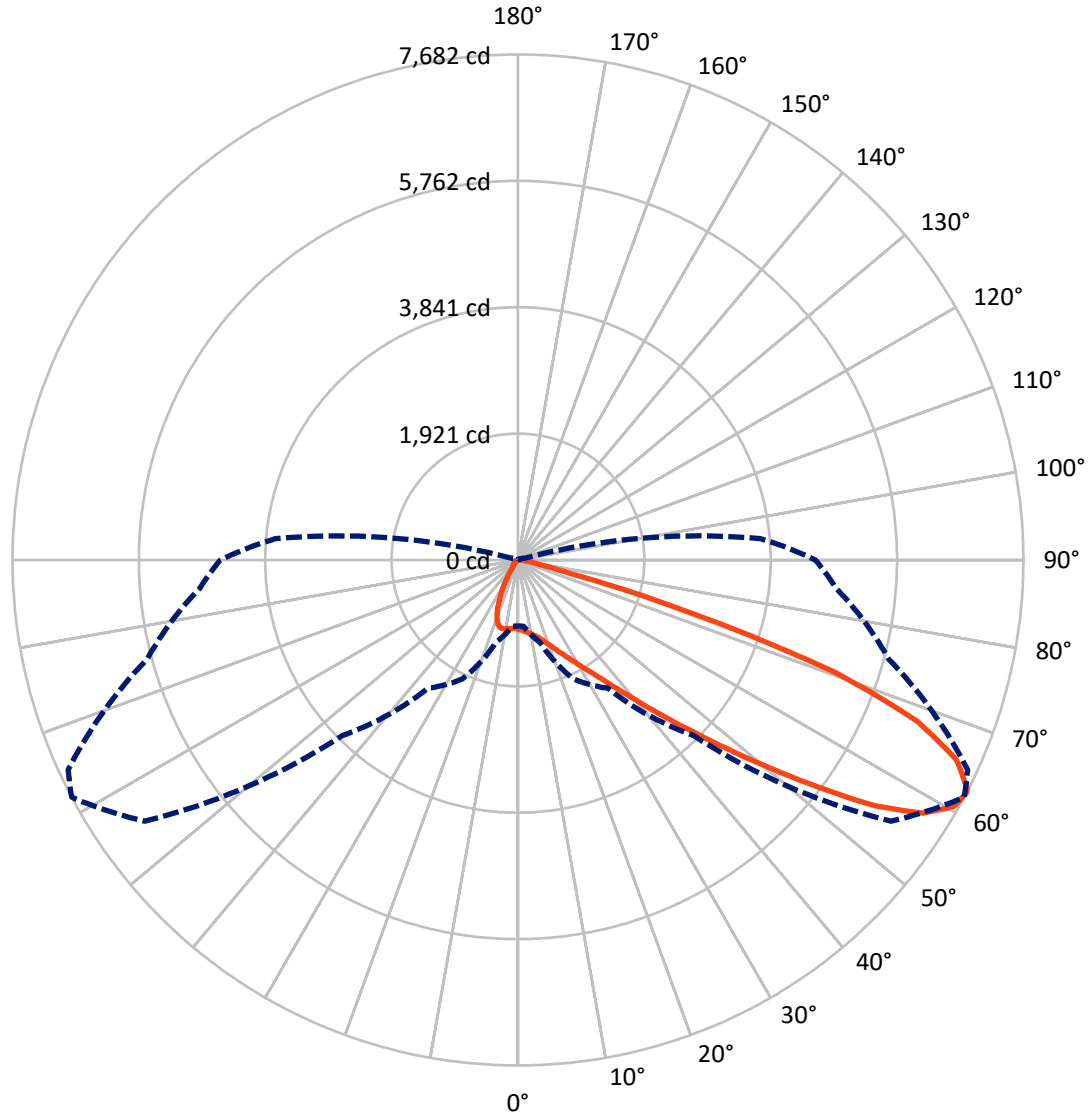
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral      - - - Horizontal Cone Through 62-Deg Vertical

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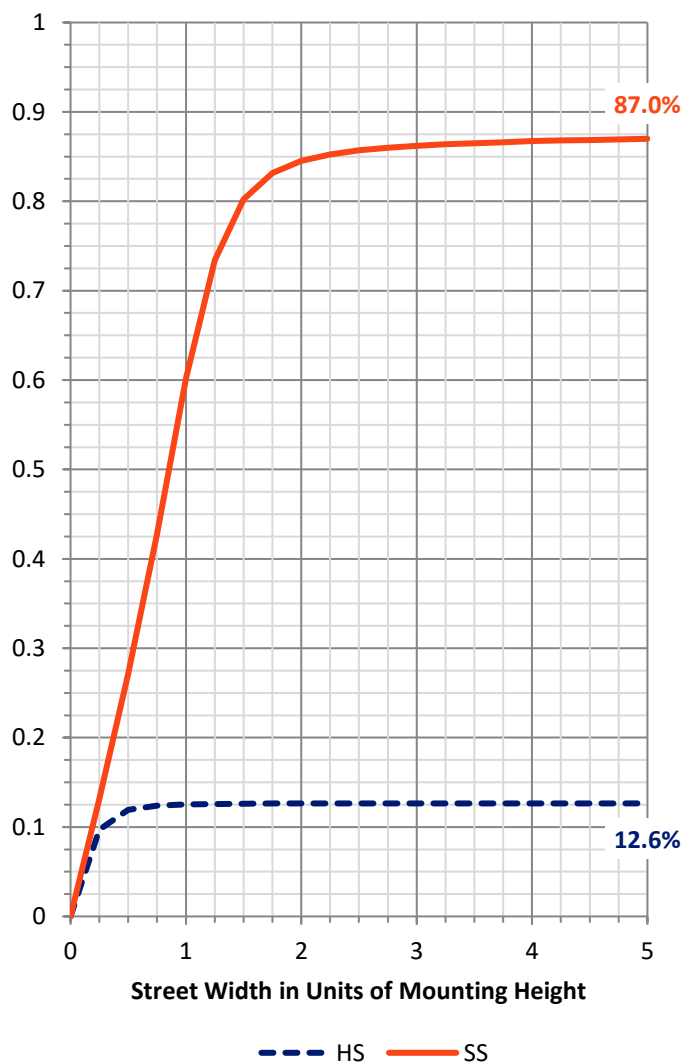
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1117.3	0.0	1117.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	7621.2	0.0	7621.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	8738.5	0.0	8738.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	1.2
10°-20°	282.9	3.2
20°-30°	475.1	5.4
30°-40°	910.7	10.4
40°-50°	1860.2	21.3
50°-60°	2461.7	28.2
60°-70°	1912.3	21.9
70°-80°	690.3	7.9
80°-90°	44.0	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°	8738.5	100.0
0°-180°	8738.5	100.0

**Coefficient of Utilization**



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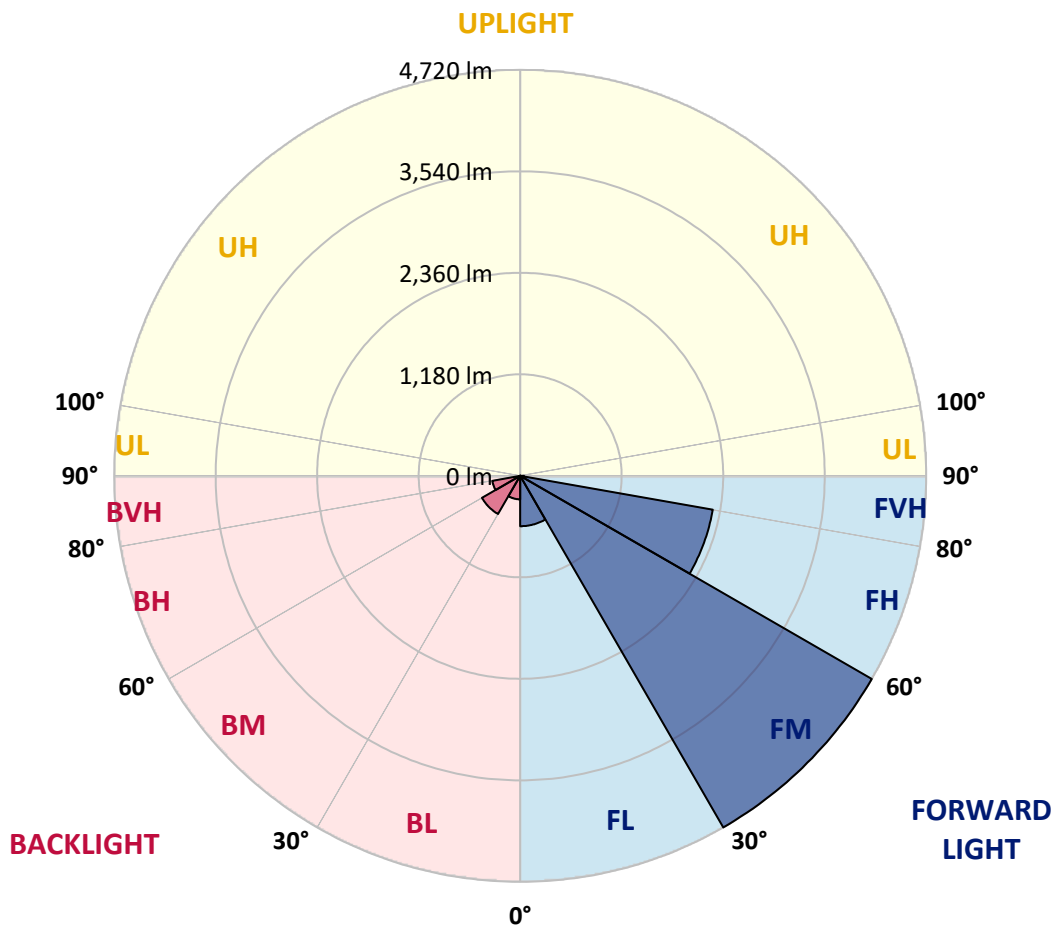
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.8	6.7			
FM (30°-60°)	4719.7	54.0			
FH (60°-80°)	2273.6	26.0			G2/5000
FVH (80°-90°)	42.1	0.5			G1/100
BL (0°-30°)	273.5	3.1	B1/500		
BM (30°-60°)	512.9	5.9	B1/1000		
BH (60°-80°)	329.0	3.8	B1/500		G1/500
BVH (80°-90°)	1.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7
2.5°	1080.6	1078.5	1076.3	1074.1	1074.1	1072.1	1069.8	1065.6	1061.2	1057.0	1054.8
5°	1099.9	1097.8	1095.7	1097.8	1095.7	1095.7	1093.4	1089.2	1085.0	1078.5	1072.1
7.5°	1115.0	1112.8	1110.7	1112.8	1115.0	1117.1	1119.3	1115.0	1112.8	1104.3	1097.8
10°	1134.3	1132.2	1130.0	1134.3	1134.3	1145.0	1147.2	1145.0	1142.9	1136.4	1125.7
12.5°	1162.2	1164.3	1164.3	1168.6	1173.0	1185.9	1190.2	1183.8	1183.8	1175.1	1162.2
15°	1213.8	1213.8	1213.8	1218.1	1220.2	1237.5	1241.7	1235.2	1239.5	1224.6	1211.6
17.5°	1263.2	1265.3	1269.7	1278.3	1278.3	1293.3	1301.9	1301.9	1310.4	1291.1	1274.0
20°	1312.6	1314.7	1321.2	1340.5	1340.5	1359.8	1374.9	1381.4	1390.0	1370.6	1340.5
22.5°	1366.3	1366.3	1377.1	1407.1	1400.7	1439.4	1467.3	1478.1	1486.6	1460.9	1413.6
25°	1448.0	1439.4	1448.0	1475.9	1471.6	1525.3	1576.8	1587.6	1598.4	1568.3	1497.4
27.5°	1602.7	1589.7	1559.6	1561.9	1561.9	1624.1	1697.2	1712.2	1718.6	1692.9	1604.8
30°	1912.0	1912.0	1800.3	1725.1	1675.7	1731.5	1834.7	1860.4	1869.0	1830.3	1714.4
32.5°	2451.2	2451.2	2245.0	2053.7	1866.9	1866.9	1985.0	2032.3	2040.9	1995.7	1860.4
35°	3138.7	3134.4	2825.0	2562.9	2197.8	2060.2	2161.1	2240.7	2266.5	2206.3	2049.4
37.5°	3869.1	3841.2	3508.2	3207.5	2706.9	2369.7	2399.7	2504.9	2528.6	2479.2	2294.5
40°	4462.0	4429.8	4161.2	3910.0	3364.3	2863.6	2743.4	2840.0	2867.9	2799.2	2586.6
42.5°	4999.1	4919.6	4734.9	4554.5	4120.5	3718.7	3201.0	3239.6	3269.7	3196.7	2915.2
45°	5388.0	5265.5	5171.0	5115.1	4885.3	4657.5	3793.9	3716.6	3727.3	3637.1	3274.1
47.5°	5398.7	5312.7	5321.4	5467.5	5562.0	5553.4	4565.2	4290.2	4249.3	4099.0	3656.5
50°	4883.2	4932.5	5089.4	5506.1	6017.5	6326.7	5482.5	4969.0	4846.6	4575.9	4036.7
52.5°	4023.8	4101.1	4395.5	5097.9	6084.0	6836.0	6434.2	5744.7	5525.5	5048.6	4328.9
55°	3151.6	3155.9	3465.2	4180.6	5639.3	6928.3	7194.7	6597.5	6262.3	5407.3	4522.2
57.5°	2167.6	2285.8	2678.9	3160.3	4636.1	6468.5	7480.4	7259.1	6827.3	5628.6	4657.5
60°	1420.1	1426.5	1884.0	2440.6	3155.9	5263.3	7306.3	7609.4	7285.0	5759.6	4749.9
62°	1001.2	1011.8	1295.4	1993.7	2378.1	3772.4	6921.9	7682.3	7542.7	5836.9	4846.6
62.5°	928.0	936.7	1175.1	1881.9	2234.3	3383.5	6784.4	7665.2	7581.4	5862.8	4880.9
65°	681.0	681.0	769.0	1293.3	1637.0	1828.2	5748.9	7323.6	7529.8	6069.1	5009.9
67.5°	526.3	530.7	560.7	797.0	1235.2	1108.6	3669.4	6554.5	6992.7	6374.0	5083.0
70°	453.3	451.1	472.6	528.5	891.5	736.9	1615.5	5115.1	5856.3	6296.7	5016.3
72.5°	335.1	337.3	386.7	464.1	620.8	479.1	730.4	2715.4	3798.2	4928.2	4298.8
75°	214.8	217.0	272.8	365.3	446.9	313.7	421.0	809.9	1555.5	2732.7	2629.6
77.5°	143.9	148.3	178.3	255.6	391.0	195.5	264.2	339.5	468.2	1024.8	943.1
80°	96.7	96.7	113.8	171.9	247.0	163.3	141.8	225.6	242.8	318.0	159.0
82.5°	64.5	64.5	75.2	113.8	161.1	146.1	86.0	122.5	141.8	159.0	55.8
85°	38.7	38.7	51.6	70.9	105.2	81.6	55.8	68.8	73.1	100.9	30.0
87.5°	23.6	21.6	34.4	49.3	55.8	49.3	36.5	36.5	38.7	55.8	15.1
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°	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7
2.5°	1050.5	1048.4	1046.2	1041.9	1035.4	1031.2	1026.9	1022.5	1018.3	1018.3	1024.8
5°	1069.8	1063.4	1054.8	1046.2	1033.4	1024.8	1018.3	1009.7	1005.4	1005.4	1007.6
7.5°	1093.4	1087.0	1072.1	1057.0	1037.6	1022.5	1007.6	988.2	973.2	966.7	973.2
10°	1119.3	1110.7	1089.2	1065.6	1044.1	1005.4	956.0	895.8	844.2	820.6	831.4
12.5°	1151.5	1140.7	1115.0	1082.8	1033.4	938.9	816.3	676.8	588.7	547.8	556.4
15°	1198.8	1183.8	1147.2	1097.8	988.2	784.2	584.3	423.3	341.6	307.2	311.5
17.5°	1254.7	1235.2	1185.9	1093.4	872.2	565.0	348.0	247.0	212.7	204.1	204.1
20°	1314.7	1289.0	1224.6	1061.2	696.1	354.4	217.0	189.0	176.1	169.7	169.7
22.5°	1377.1	1342.7	1256.8	986.1	496.2	221.2	178.3	159.0	143.9	137.4	137.4
25°	1452.3	1407.1	1289.0	855.1	315.8	178.3	152.5	133.2	118.1	109.6	111.7
27.5°	1540.3	1482.3	1316.9	691.7	204.1	154.7	126.7	107.4	94.5	90.2	90.2
30°	1632.8	1563.9	1323.3	517.8	165.4	133.2	105.2	88.1	79.5	75.2	75.2
32.5°	1759.5	1669.3	1304.0	343.7	139.7	111.7	88.1	73.1	66.6	64.5	64.5
35°	1927.0	1806.7	1258.8	212.7	118.1	92.4	73.1	64.5	58.0	55.8	55.8
37.5°	2139.8	1998.0	1179.5	146.1	100.9	75.2	62.3	55.8	51.6	49.3	49.3
40°	2423.3	2230.0	1076.3	126.7	86.0	64.5	53.7	49.3	45.2	45.2	45.2
42.5°	2724.1	2511.4	943.1	111.7	73.1	55.8	47.3	42.9	40.9	38.7	38.7
45°	3052.7	2799.2	777.7	98.8	62.3	49.3	42.9	36.5	34.4	34.4	34.4
47.5°	3379.3	3095.8	597.2	86.0	53.7	42.9	36.5	32.2	30.0	28.0	28.0
50°	3714.4	3364.3	438.2	75.2	47.3	38.7	32.2	28.0	23.6	21.6	21.6
52.5°	3957.2	3525.4	320.1	64.5	40.9	32.2	25.7	21.6	17.2	15.1	15.1
55°	4135.5	3624.2	234.2	53.7	36.5	28.0	21.6	17.2	12.9	12.9	10.7
57.5°	4275.1	3671.4	176.1	47.3	32.2	23.6	17.2	12.9	10.7	8.6	8.6
60°	4382.6	3673.7	131.0	38.7	28.0	19.3	12.9	8.6	6.4	6.4	6.4
62°	4524.3	3701.6	107.4	32.2	25.7	17.2	10.7	6.4	4.3	2.1	2.1
62.5°	4565.2	3712.3	103.1	32.2	23.6	15.1	8.6	6.4	4.3	2.1	2.1
65°	4754.2	3731.6	79.5	25.7	19.3	12.9	6.4	4.3	0.0	0.0	0.0
67.5°	4926.1	3701.6	58.0	19.3	15.1	8.6	6.4	2.1	0.0	0.0	0.0
70°	4908.9	3495.3	40.9	12.9	10.7	6.4	4.3	0.0	0.0	0.0	0.0
72.5°	4045.4	2616.6	28.0	10.7	6.4	4.3	2.1	0.0	0.0	0.0	0.0
75°	2442.6	1145.0	19.3	6.4	6.4	4.3	2.1	0.0	0.0	0.0	0.0
77.5°	801.3	414.6	12.9	4.3	4.3	2.1	2.1	0.0	0.0	0.0	0.0
80°	131.0	68.8	6.4	4.3	4.3	2.1	2.1	0.0	0.0	0.0	0.0
82.5°	40.9	17.2	4.3	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	15.1	6.4	4.3	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	4.3	4.3	4.3	2.1	2.1	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)