

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: P399331

Luminaire Tested: **ARCH-L-PA3-130-722-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-130-722-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11340 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

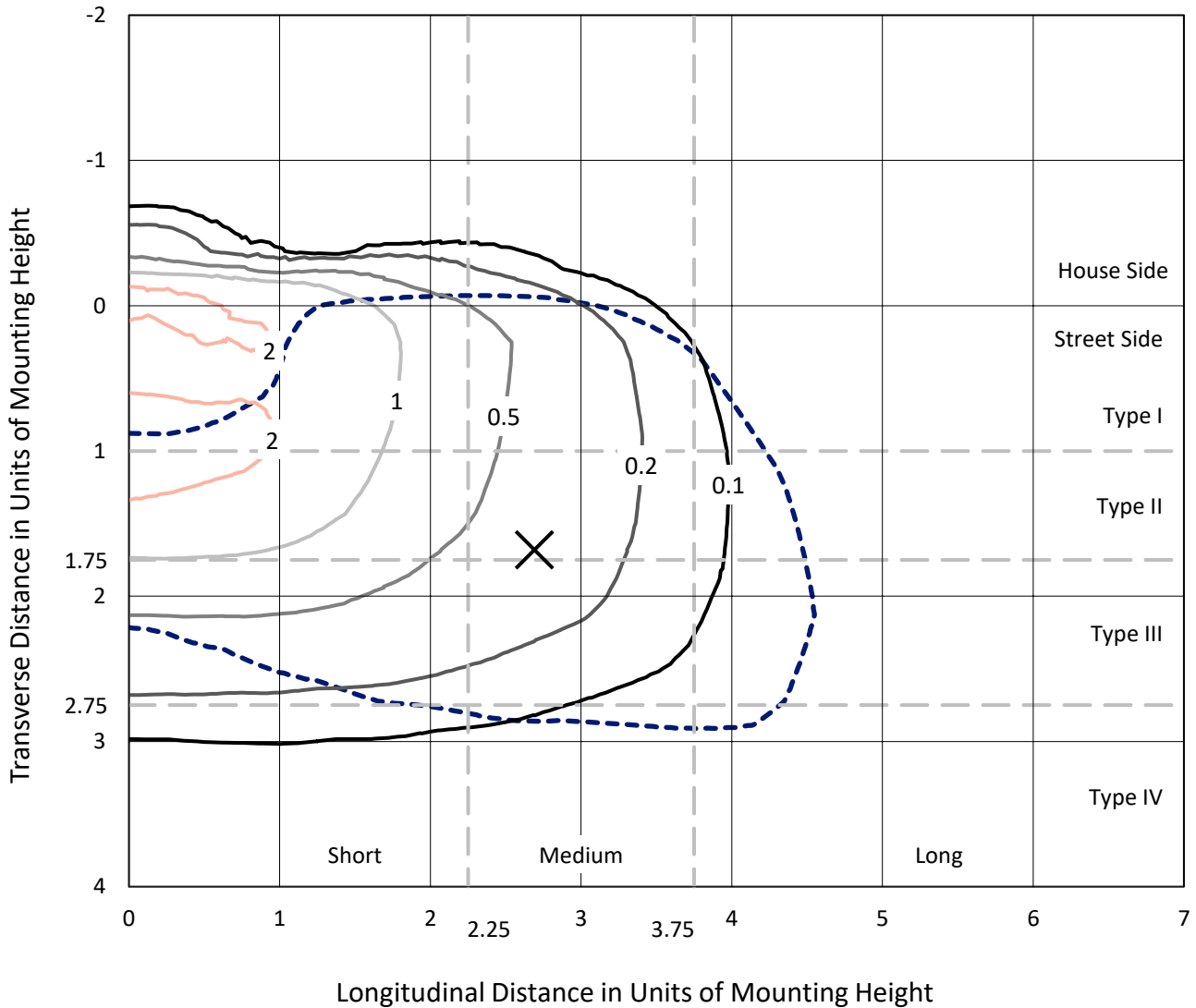
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

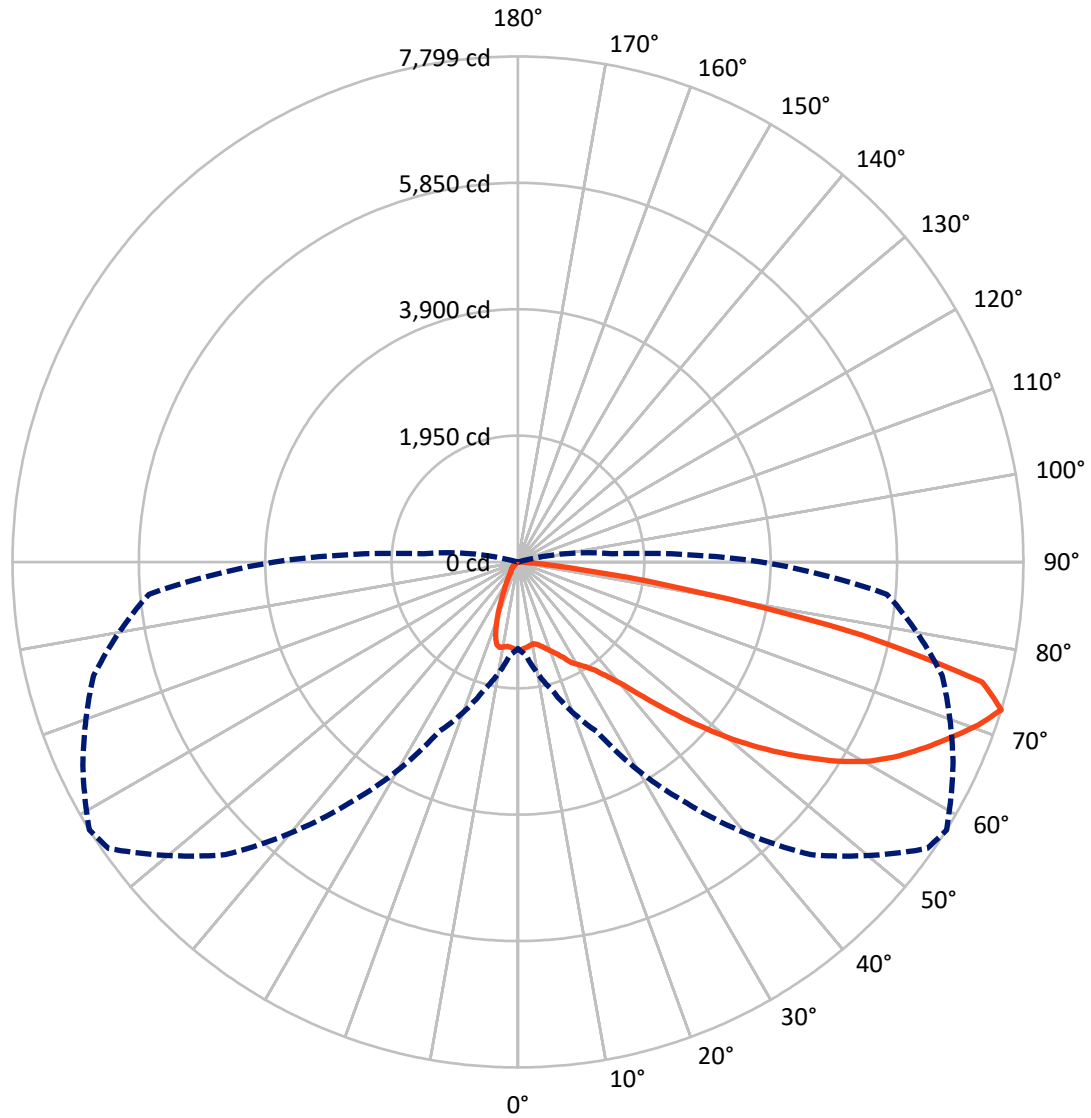
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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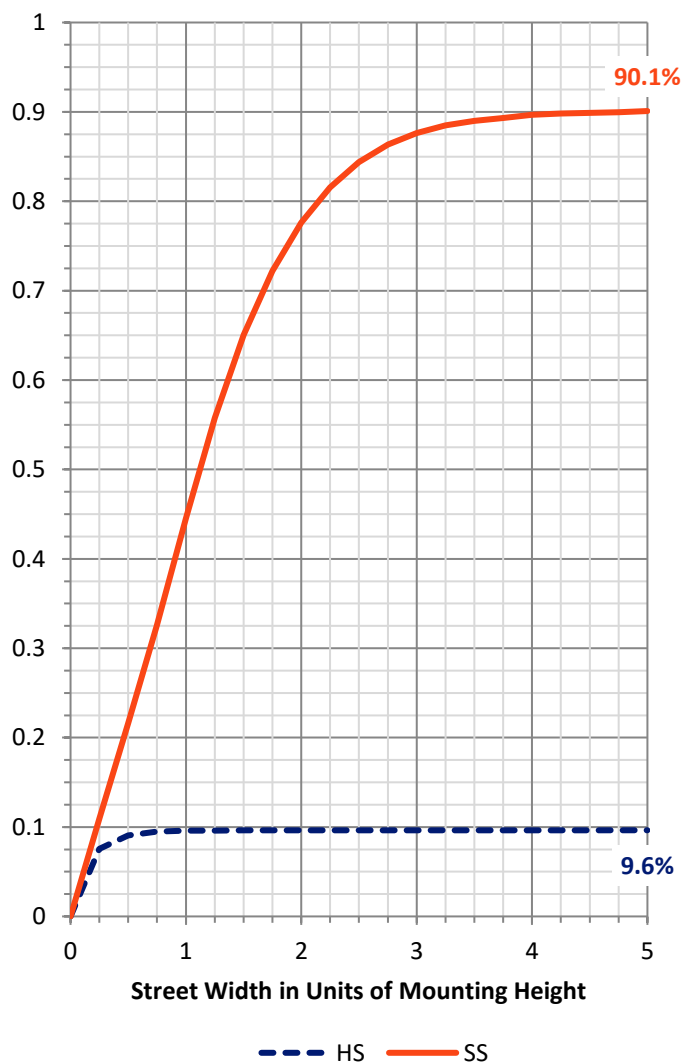
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1102.7	0.0	1102.7
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	10237.3	0.0	10237.3
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	11340.0	0.0	11340.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.9	1.1
10°-20°	325.3	2.9
20°-30°	511.0	4.5
30°-40°	881.2	7.8
40°-50°	1676.5	14.8
50°-60°	2655.1	23.4
60°-70°	3098.2	27.3
70°-80°	1940.4	17.1
80°-90°	127.4	1.1
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°	11340.0	100.0
0°-180°	11340.0	100.0

**Coefficient of Utilization**

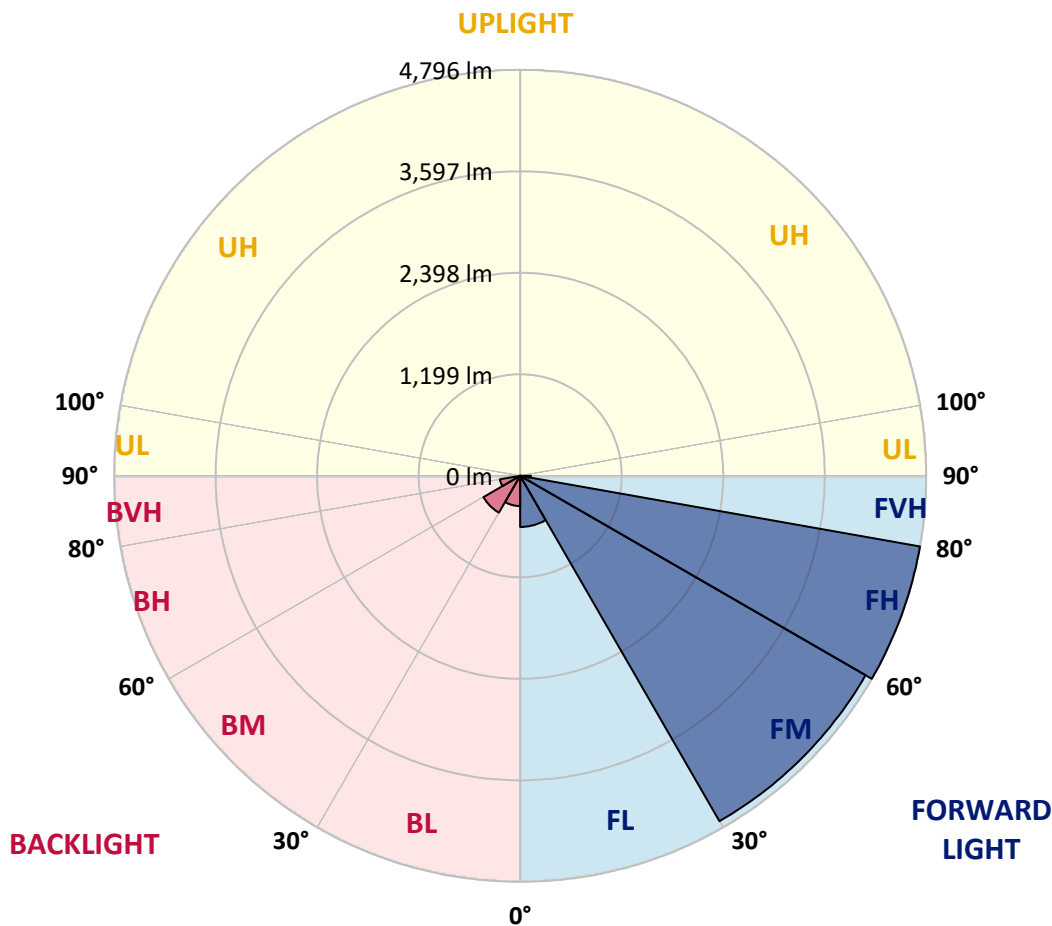


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.0	5.3			
FM (30°-60°)	4711.1	41.5			
FH (60°-80°)	4796.0	42.3			G2/5000
FVH (80°-90°)	126.1	1.1			G2/225
BL (0°-30°)	357.1	3.1	B1/500		
BM (30°-60°)	501.8	4.4	B1/1000		
BH (60°-80°)	242.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7
2.5°	1354.6	1348.6	1346.5	1344.5	1346.5	1348.6	1342.5	1348.6	1344.5	1346.5	1350.6
5°	1306.0	1299.9	1297.9	1299.9	1306.0	1316.1	1320.2	1326.3	1326.3	1332.3	1334.4
7.5°	1251.2	1247.2	1245.1	1249.2	1261.4	1283.7	1295.8	1303.9	1312.1	1324.2	1336.4
10°	1220.8	1218.8	1216.7	1222.8	1235.0	1255.3	1271.5	1283.7	1314.1	1348.6	1370.9
12.5°	1200.5	1200.5	1204.6	1216.7	1233.0	1249.2	1287.7	1303.9	1350.6	1403.3	1433.7
15°	1184.3	1184.3	1190.4	1212.7	1235.0	1273.5	1330.3	1348.6	1403.3	1468.2	1508.8
17.5°	1172.1	1176.2	1180.2	1202.6	1245.1	1310.0	1377.0	1403.3	1470.2	1541.2	1585.8
20°	1174.2	1178.2	1180.2	1202.6	1263.4	1352.6	1437.8	1468.2	1545.3	1620.3	1664.9
22.5°	1186.3	1192.4	1194.4	1224.9	1295.8	1397.2	1506.7	1541.2	1624.4	1703.4	1737.9
25°	1237.0	1241.1	1228.9	1255.3	1342.5	1466.2	1596.0	1632.5	1715.6	1788.6	1817.0
27.5°	1409.4	1413.5	1346.5	1316.1	1379.0	1523.0	1705.5	1756.2	1859.6	1908.3	1912.3
30°	1782.5	1786.6	1654.8	1510.8	1466.2	1571.6	1766.3	1837.3	1971.1	2025.9	2001.6
32.5°	2263.2	2259.1	2078.6	1865.7	1673.0	1656.8	1853.5	1928.5	2074.6	2127.3	2109.0
35°	2745.8	2751.9	2597.8	2277.3	2001.6	1817.0	1965.0	2052.2	2228.7	2303.7	2271.3
37.5°	3076.3	3116.9	3050.0	2703.2	2405.1	2113.1	2145.5	2238.8	2459.9	2561.3	2492.3
40°	3542.8	3532.6	3370.4	3114.9	2851.2	2551.1	2437.6	2482.2	2735.7	2871.5	2764.0
42.5°	4169.4	4149.1	3873.3	3623.9	3329.8	3084.5	2853.3	2845.2	3052.0	3210.2	3054.0
45°	4737.2	4706.8	4518.2	4276.9	3954.4	3672.6	3360.3	3289.3	3433.3	3567.1	3384.6
47.5°	5189.4	5138.7	5004.9	4877.1	4798.0	4360.0	3891.6	3784.1	3857.1	3956.5	3698.9
50°	5724.8	5584.9	5390.2	5313.1	5477.4	5138.7	4402.6	4299.2	4295.1	4351.9	4023.4
52.5°	5968.2	5714.7	5605.2	5670.1	5960.0	5862.7	4954.2	4806.2	4747.3	4753.4	4325.5
55°	5674.1	5645.7	5704.5	5907.3	6286.5	6229.8	5483.5	5301.0	5213.8	5104.3	4615.5
57.5°	5339.5	5426.7	5659.9	6047.2	6700.2	6613.0	6004.7	5797.8	5637.6	5386.1	4938.0
60°	5031.3	5120.5	5505.8	6079.7	6927.4	6982.1	6438.6	6241.9	6004.7	5674.1	5292.9
62.5°	4562.8	4631.8	5173.2	6033.0	6828.0	7197.1	6740.8	6592.8	6371.7	5947.9	5700.5
65°	4035.6	4080.2	4615.5	5659.9	6633.3	7172.7	6990.2	6907.1	6692.1	6233.8	6104.0
67.5°	3457.6	3510.3	3956.5	4988.7	6252.1	7059.2	7225.5	7217.3	6972.0	6550.2	6396.0
70°	2792.4	2796.5	3165.6	4136.9	5586.9	6832.0	7517.5	7535.7	7239.7	6787.4	6408.2
72.5°	1336.4	1445.9	2052.2	2887.8	4540.5	6385.9	7708.1	7799.4	7408.0	6779.3	5716.7
75°	306.2	316.4	598.2	1372.9	2662.7	4901.5	7231.5	7401.9	6998.3	5862.7	4027.4
77.5°	111.5	117.6	168.3	401.5	1024.1	2532.9	5175.2	5424.7	5173.2	3790.2	1904.2
80°	75.0	73.0	87.2	178.5	470.5	717.9	2646.4	2794.5	2551.1	1293.8	456.3
82.5°	38.5	40.6	60.8	99.4	316.4	249.4	884.2	961.2	790.9	259.6	85.2
85°	18.3	18.3	34.5	62.9	133.8	87.2	196.7	237.3	212.9	113.6	28.4
87.5°	18.3	18.3	32.4	40.6	68.9	36.5	48.7	60.8	56.8	60.8	10.1
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°	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7	1360.7
2.5°	1350.6	1348.6	1346.5	1350.6	1348.6	1352.6	1352.6	1356.7	1356.7	1352.6	1350.6
5°	1332.3	1328.3	1324.2	1324.2	1322.2	1326.3	1338.4	1348.6	1350.6	1344.5	1342.5
7.5°	1334.4	1334.4	1330.3	1322.2	1308.0	1308.0	1308.0	1320.2	1326.3	1322.2	1320.2
10°	1370.9	1372.9	1362.8	1344.5	1320.2	1297.9	1255.3	1192.4	1133.6	1117.4	1111.3
12.5°	1433.7	1435.8	1415.5	1383.0	1332.3	1200.5	1038.3	888.2	772.6	740.2	734.1
15°	1508.8	1510.8	1474.3	1421.6	1267.4	961.2	719.9	549.6	448.2	423.8	421.8
17.5°	1585.8	1581.8	1527.0	1425.6	1074.8	681.4	438.0	350.8	324.5	318.4	320.4
20°	1660.9	1648.7	1573.7	1350.6	827.4	446.1	320.4	300.1	294.0	290.0	290.0
22.5°	1729.8	1705.5	1612.2	1202.6	580.0	320.4	285.9	281.9	273.8	267.7	265.7
25°	1798.8	1764.3	1636.5	1009.9	389.4	279.9	269.7	261.6	251.5	243.3	241.3
27.5°	1881.9	1833.2	1624.4	766.6	292.0	259.6	251.5	239.3	225.1	212.9	208.9
30°	1961.0	1906.2	1555.4	529.3	249.4	239.3	227.1	208.9	190.6	176.4	172.4
32.5°	2060.4	1997.5	1431.7	346.8	217.0	208.9	196.7	174.4	150.1	133.8	129.8
35°	2202.3	2131.3	1273.5	243.3	190.6	176.4	160.2	135.9	109.5	97.3	95.3
37.5°	2401.1	2305.7	1074.8	196.7	168.3	148.0	123.7	99.4	81.1	71.0	68.9
40°	2644.4	2498.4	853.8	174.4	150.1	123.7	93.3	71.0	58.8	50.7	50.7
42.5°	2908.0	2678.9	628.7	160.2	131.8	101.4	68.9	50.7	42.6	38.5	36.5
45°	3179.8	2839.1	423.8	148.0	115.6	77.1	48.7	34.5	28.4	28.4	26.4
47.5°	3461.7	2946.6	273.8	133.8	97.3	56.8	32.4	24.3	20.3	20.3	20.3
50°	3741.5	3003.3	194.7	121.7	79.1	38.5	24.3	18.3	16.2	16.2	16.2
52.5°	3944.3	2966.8	156.1	105.5	60.8	28.4	18.3	14.2	12.2	12.2	12.2
55°	4120.7	2904.0	135.9	91.3	44.6	20.3	14.2	12.2	10.1	10.1	10.1
57.5°	4301.2	2822.9	121.7	77.1	32.4	14.2	10.1	8.1	8.1	8.1	8.1
60°	4465.5	2685.0	105.5	60.8	22.3	10.1	8.1	6.1	6.1	6.1	6.1
62.5°	4625.7	2567.3	91.3	46.6	16.2	8.1	4.1	4.1	2.0	2.0	2.0
65°	4716.9	2409.2	73.0	30.4	10.1	6.1	2.0	2.0	0.0	0.0	0.0
67.5°	4688.5	2220.6	50.7	18.3	6.1	4.1	2.0	0.0	0.0	0.0	0.0
70°	4491.8	1967.1	30.4	10.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0
72.5°	3761.8	1456.0	18.3	8.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
75°	2512.6	669.2	10.1	6.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1149.8	200.8	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	231.2	52.7	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.7	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.0	0.0	0.0	0.0	0.0	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)