

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: P399268

Luminaire Tested: **ARCH-L-PA3-120-727-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399268  
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-PA3-120-727-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 530mA 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: 12037 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3

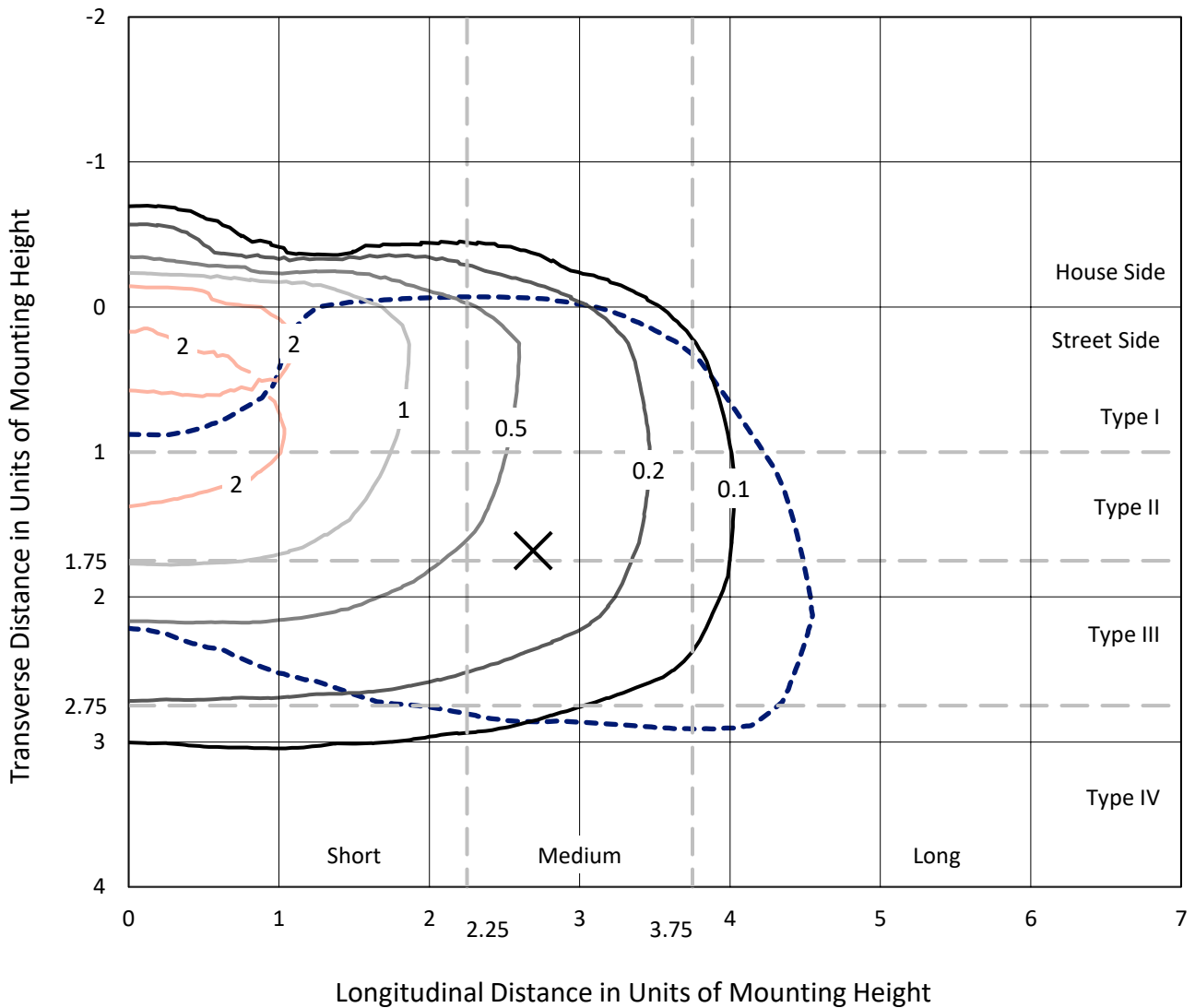
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

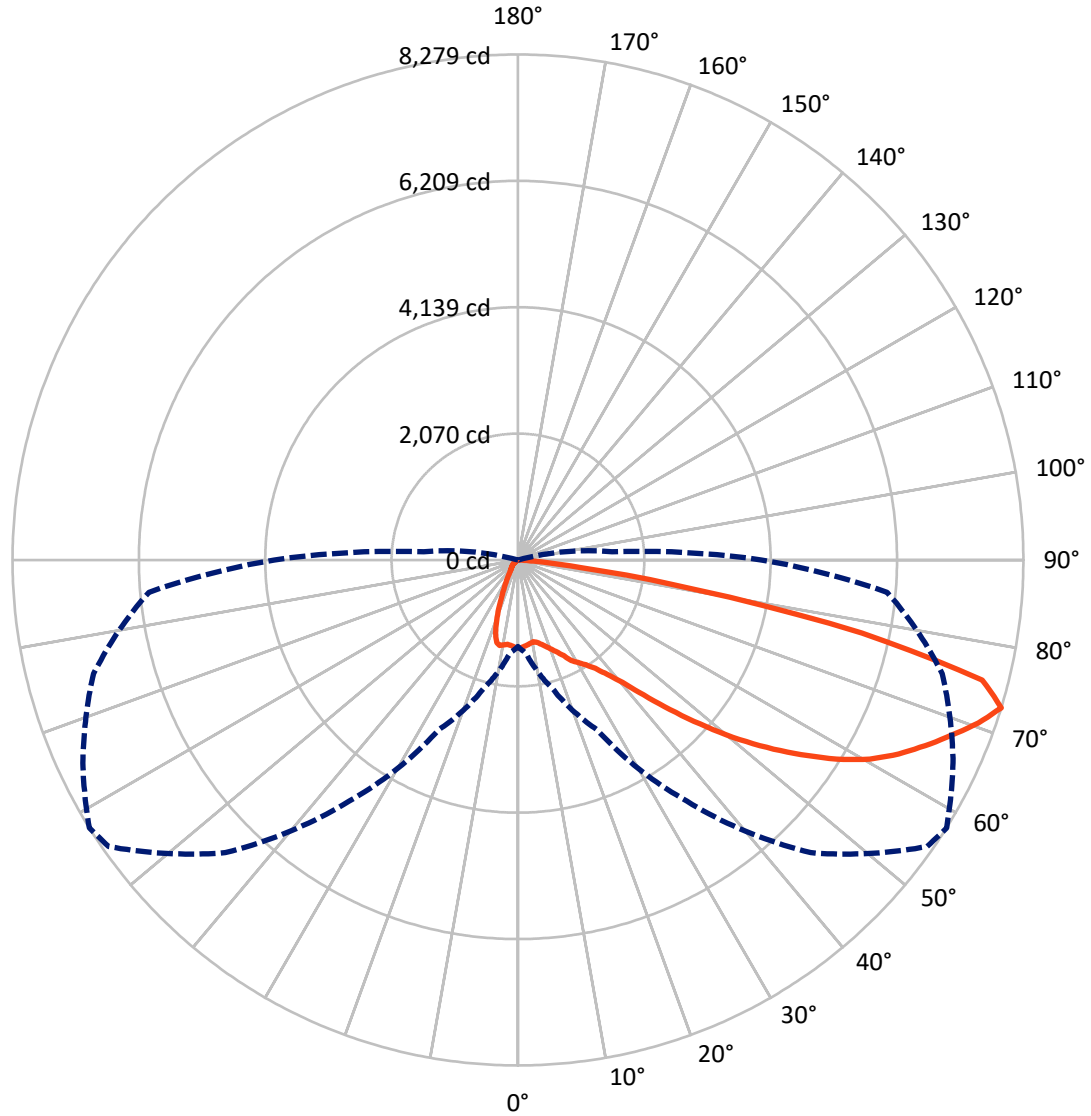
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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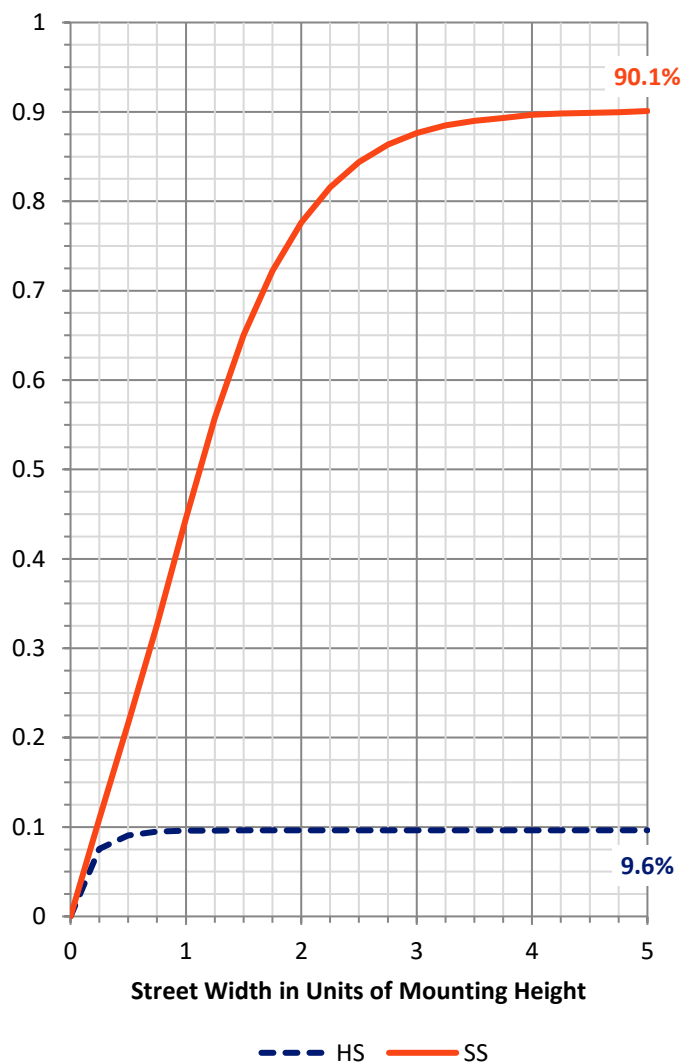
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1170.5	0.0	1170.5
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	10866.5	0.0	10866.5
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	12037.0	0.0	12037.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.6	1.1
10°-20°	345.2	2.9
20°-30°	542.4	4.5
30°-40°	935.4	7.8
40°-50°	1779.6	14.8
50°-60°	2818.3	23.4
60°-70°	3288.7	27.3
70°-80°	2059.7	17.1
80°-90°	135.2	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°	12037.0	100.0
0°-180°	12037.0	100.0

**Coefficient of Utilization**



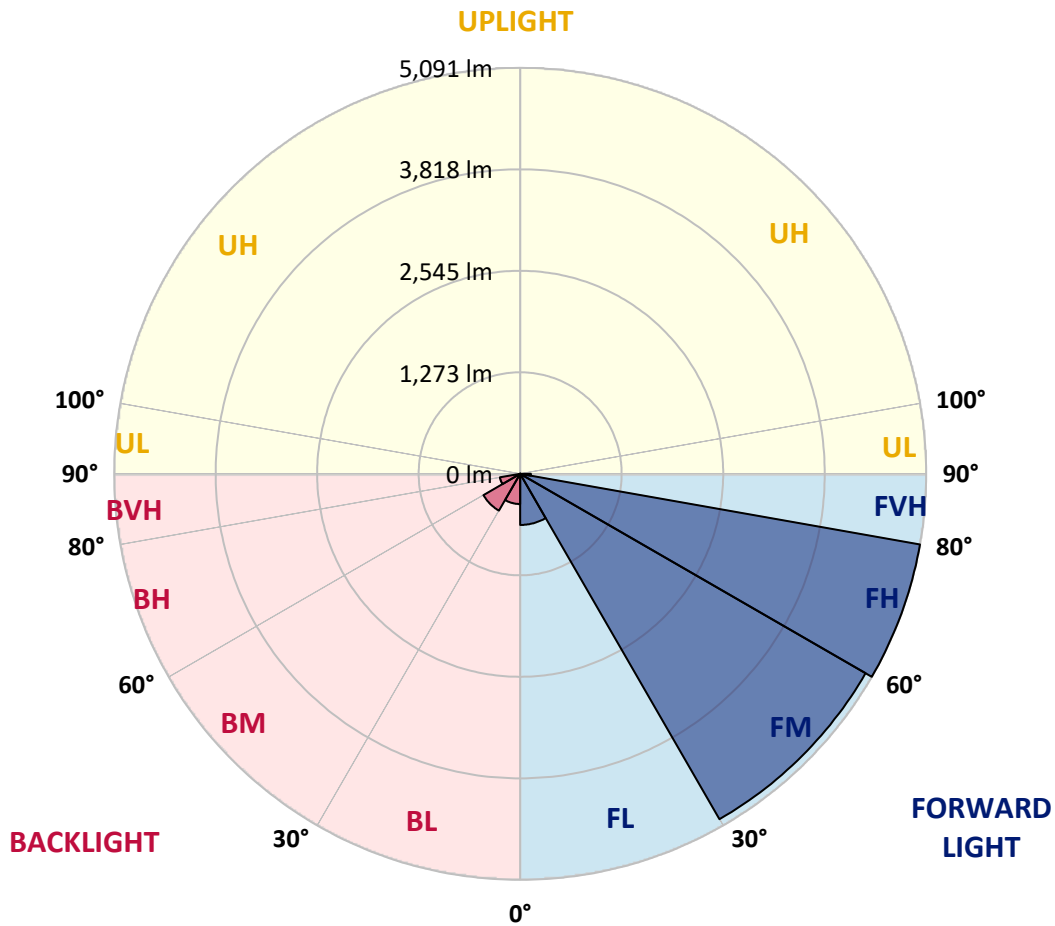
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.1	5.3			
FM (30°-60°)	5000.7	41.5			
FH (60°-80°)	5090.8	42.3			G3/7500
FVH (80°-90°)	133.9	1.1			G2/225
BL (0°-30°)	379.0	3.1	B1/500		
BM (30°-60°)	532.6	4.4	B1/1000		
BH (60°-80°)	257.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4
2.5°	1437.9	1431.5	1429.3	1427.1	1429.3	1431.5	1425.0	1431.5	1427.1	1429.3	1433.6
5°	1386.2	1379.8	1377.6	1379.8	1386.2	1397.0	1401.3	1407.8	1407.8	1414.2	1416.4
7.5°	1328.1	1323.8	1321.7	1326.0	1338.9	1362.6	1375.5	1384.1	1392.7	1405.6	1418.5
10°	1295.8	1293.7	1291.5	1298.0	1310.9	1332.4	1349.7	1362.6	1394.9	1431.5	1455.1
12.5°	1274.3	1274.3	1278.6	1291.5	1308.8	1326.0	1366.9	1384.1	1433.6	1489.6	1521.9
15°	1257.1	1257.1	1263.6	1287.2	1310.9	1351.8	1412.1	1431.5	1489.6	1558.5	1601.5
17.5°	1244.2	1248.5	1252.8	1276.5	1321.7	1390.6	1461.6	1489.6	1560.6	1635.9	1683.3
20°	1246.3	1250.6	1252.8	1276.5	1341.0	1435.8	1526.2	1558.5	1640.2	1719.9	1767.3
22.5°	1259.2	1265.7	1267.9	1300.1	1375.5	1483.1	1599.4	1635.9	1724.2	1808.1	1844.7
25°	1313.1	1317.4	1304.5	1332.4	1425.0	1556.3	1694.1	1732.8	1821.1	1898.6	1928.7
27.5°	1496.0	1500.3	1429.3	1397.0	1463.7	1616.6	1810.3	1864.1	1973.9	2025.6	2029.9
30°	1892.1	1896.4	1756.5	1603.7	1556.3	1668.2	1874.9	1950.2	2092.3	2150.4	2124.6
32.5°	2402.3	2397.9	2206.4	1980.4	1775.9	1758.6	1967.4	2047.1	2202.1	2258.0	2238.7
35°	2914.6	2921.0	2757.4	2417.3	2124.6	1928.7	2085.8	2178.4	2365.7	2445.3	2410.9
37.5°	3265.4	3308.5	3237.4	2869.4	2552.9	2243.0	2277.4	2376.4	2611.1	2718.7	2645.5
40°	3760.5	3749.8	3577.6	3306.3	3026.5	2707.9	2587.4	2634.7	2903.8	3048.0	2933.9
42.5°	4425.7	4404.1	4111.4	3846.6	3534.5	3274.0	3028.6	3020.0	3239.6	3407.5	3241.8
45°	5028.4	4996.1	4795.9	4539.7	4197.5	3898.3	3566.8	3491.4	3644.3	3786.4	3592.6
47.5°	5508.4	5454.6	5312.5	5176.9	5093.0	4628.0	4130.8	4016.7	4094.2	4199.6	3926.3
50°	6076.7	5928.1	5721.5	5639.7	5814.1	5454.6	4673.2	4563.4	4559.1	4619.4	4270.7
52.5°	6335.0	6065.9	5949.7	6018.6	6326.4	6223.0	5258.7	5101.6	5039.1	5045.6	4591.4
55°	6022.9	5992.7	6055.1	6270.4	6672.9	6612.7	5820.5	5626.8	5534.2	5418.0	4899.2
57.5°	5667.7	5760.2	6007.8	6418.9	7112.1	7019.5	6373.7	6154.2	5984.1	5717.2	5241.5
60°	5340.5	5435.2	5844.2	6453.4	7353.1	7411.3	6834.4	6625.6	6373.7	6022.9	5618.2
62.5°	4843.3	4916.4	5491.2	6403.9	7247.7	7639.4	7155.1	6998.0	6763.3	6313.5	6050.8
65°	4283.6	4330.9	4899.2	6007.8	7041.0	7613.6	7419.9	7331.6	7103.4	6617.0	6479.2
67.5°	3670.1	3726.1	4199.6	5295.3	6636.3	7493.1	7669.6	7661.0	7400.5	6952.8	6789.2
70°	2964.1	2968.4	3360.1	4391.2	5930.3	7252.0	7979.5	7998.9	7684.6	7204.6	6802.1
72.5°	1418.5	1534.8	2178.4	3065.2	4819.6	6778.4	8181.9	8278.7	7863.3	7196.0	6068.1
75°	325.0	335.8	635.0	1457.3	2826.3	5202.7	7676.0	7856.8	7428.5	6223.0	4275.0
77.5°	118.4	124.8	178.7	426.2	1087.0	2688.5	5493.3	5758.1	5491.2	4023.1	2021.3
80°	79.6	77.5	92.6	189.4	499.4	762.0	2809.1	2966.2	2707.9	1373.3	484.3
82.5°	40.9	43.1	64.6	105.5	335.8	264.8	938.5	1020.3	839.5	275.5	90.4
85°	19.4	19.4	36.6	66.7	142.1	92.6	208.8	251.8	226.0	120.5	30.1
87.5°	19.4	19.4	34.4	43.1	73.2	38.7	51.7	64.6	60.3	64.6	10.8
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°	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4
2.5°	1433.6	1431.5	1429.3	1433.6	1431.5	1435.8	1435.8	1440.1	1440.1	1435.8	1433.6
5°	1414.2	1409.9	1405.6	1405.6	1403.5	1407.8	1420.7	1431.5	1433.6	1427.1	1425.0
7.5°	1416.4	1416.4	1412.1	1403.5	1388.4	1388.4	1388.4	1401.3	1407.8	1403.5	1401.3
10°	1455.1	1457.3	1446.5	1427.1	1401.3	1377.6	1332.4	1265.7	1203.3	1186.1	1179.6
12.5°	1521.9	1524.0	1502.5	1468.0	1414.2	1274.3	1102.1	942.8	820.1	785.7	779.2
15°	1601.5	1603.7	1564.9	1508.9	1345.3	1020.3	764.2	583.3	475.7	449.9	447.7
17.5°	1683.3	1679.0	1620.9	1513.2	1140.9	723.3	465.0	372.4	344.4	338.0	340.1
20°	1762.9	1750.0	1670.4	1433.6	878.2	473.6	340.1	318.6	312.1	307.8	307.8
22.5°	1836.1	1810.3	1711.3	1276.5	615.6	340.1	303.5	299.2	290.6	284.1	282.0
25°	1909.3	1872.7	1737.1	1072.0	413.3	297.1	286.3	277.7	266.9	258.3	256.2
27.5°	1997.6	1945.9	1724.2	813.7	310.0	275.5	266.9	254.0	238.9	226.0	221.7
30°	2081.5	2023.4	1651.0	561.8	264.8	254.0	241.1	221.7	202.3	187.3	183.0
32.5°	2187.0	2120.3	1519.7	368.1	230.3	221.7	208.8	185.1	159.3	142.1	137.8
35°	2337.7	2262.3	1351.8	258.3	202.3	187.3	170.1	144.2	116.2	103.3	101.2
37.5°	2548.6	2447.5	1140.9	208.8	178.7	157.1	131.3	105.5	86.1	75.3	73.2
40°	2806.9	2652.0	906.2	185.1	159.3	131.3	99.0	75.3	62.4	53.8	53.8
42.5°	3086.8	2843.5	667.3	170.1	139.9	107.6	73.2	53.8	45.2	40.9	38.7
45°	3375.2	3013.6	449.9	157.1	122.7	81.8	51.7	36.6	30.1	30.1	28.0
47.5°	3674.4	3127.7	290.6	142.1	103.3	60.3	34.4	25.8	21.5	21.5	21.5
50°	3971.5	3187.9	206.6	129.2	83.9	40.9	25.8	19.4	17.2	17.2	17.2
52.5°	4186.7	3149.2	165.7	111.9	64.6	30.1	19.4	15.1	12.9	12.9	12.9
55°	4374.0	3082.5	144.2	96.9	47.4	21.5	15.1	12.9	10.8	10.8	10.8
57.5°	4565.6	2996.4	129.2	81.8	34.4	15.1	10.8	8.6	8.6	8.6	8.6
60°	4739.9	2850.0	111.9	64.6	23.7	10.8	8.6	6.5	6.5	6.5	6.5
62.5°	4910.0	2725.1	96.9	49.5	17.2	8.6	4.3	4.3	2.2	2.2	2.2
65°	5006.9	2557.2	77.5	32.3	10.8	6.5	2.2	2.2	0.0	0.0	0.0
67.5°	4976.7	2357.1	53.8	19.4	6.5	4.3	2.2	0.0	0.0	0.0	0.0
70°	4767.9	2088.0	32.3	10.8	6.5	4.3	2.2	0.0	0.0	0.0	0.0
72.5°	3993.0	1545.5	19.4	8.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0
75°	2667.0	710.3	10.8	6.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	1220.5	213.1	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	245.4	56.0	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.7	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	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)