

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: P400426

Luminaire Tested: **ARCH-L-PA3-280-730-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-280-730-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32846 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

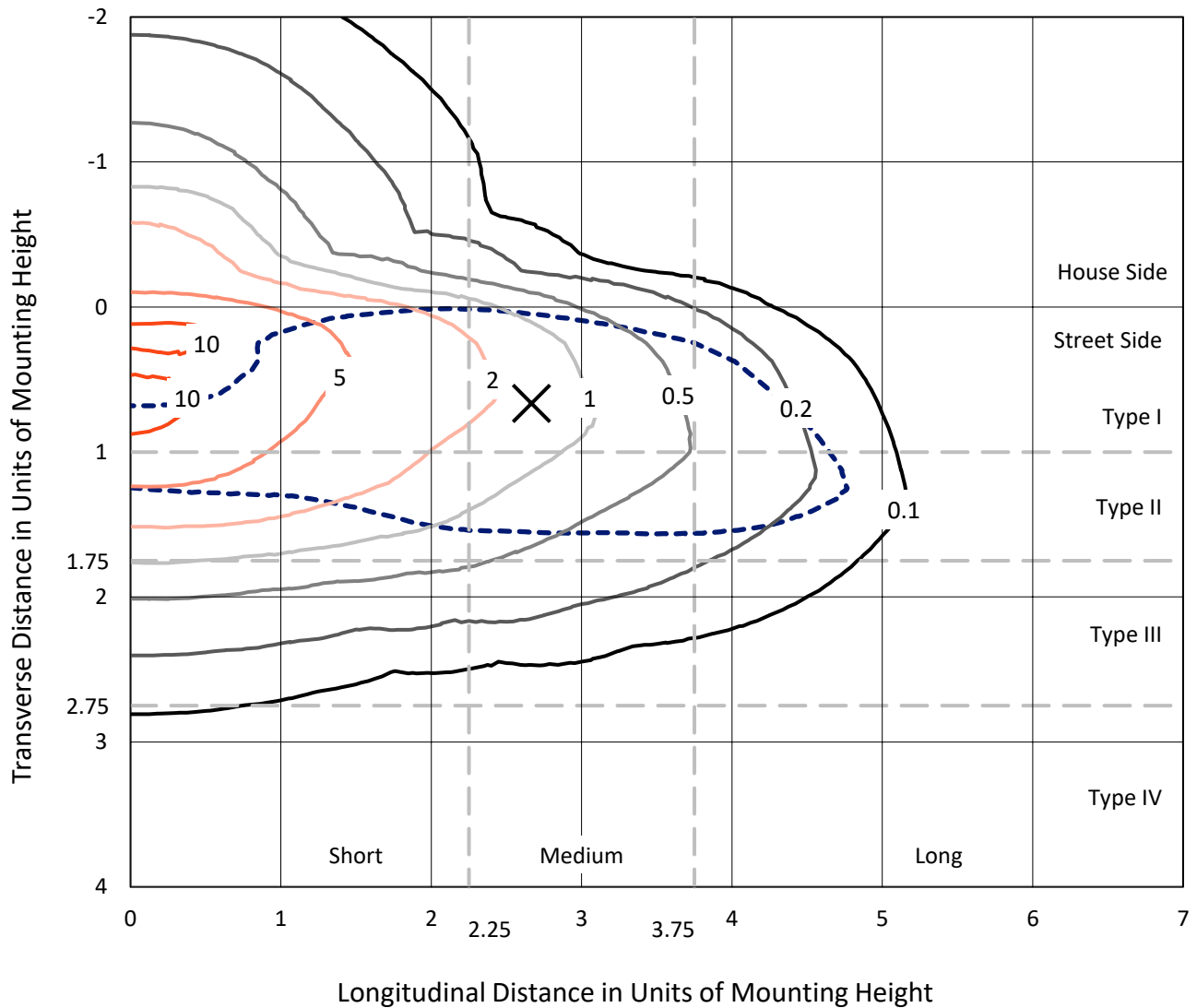
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

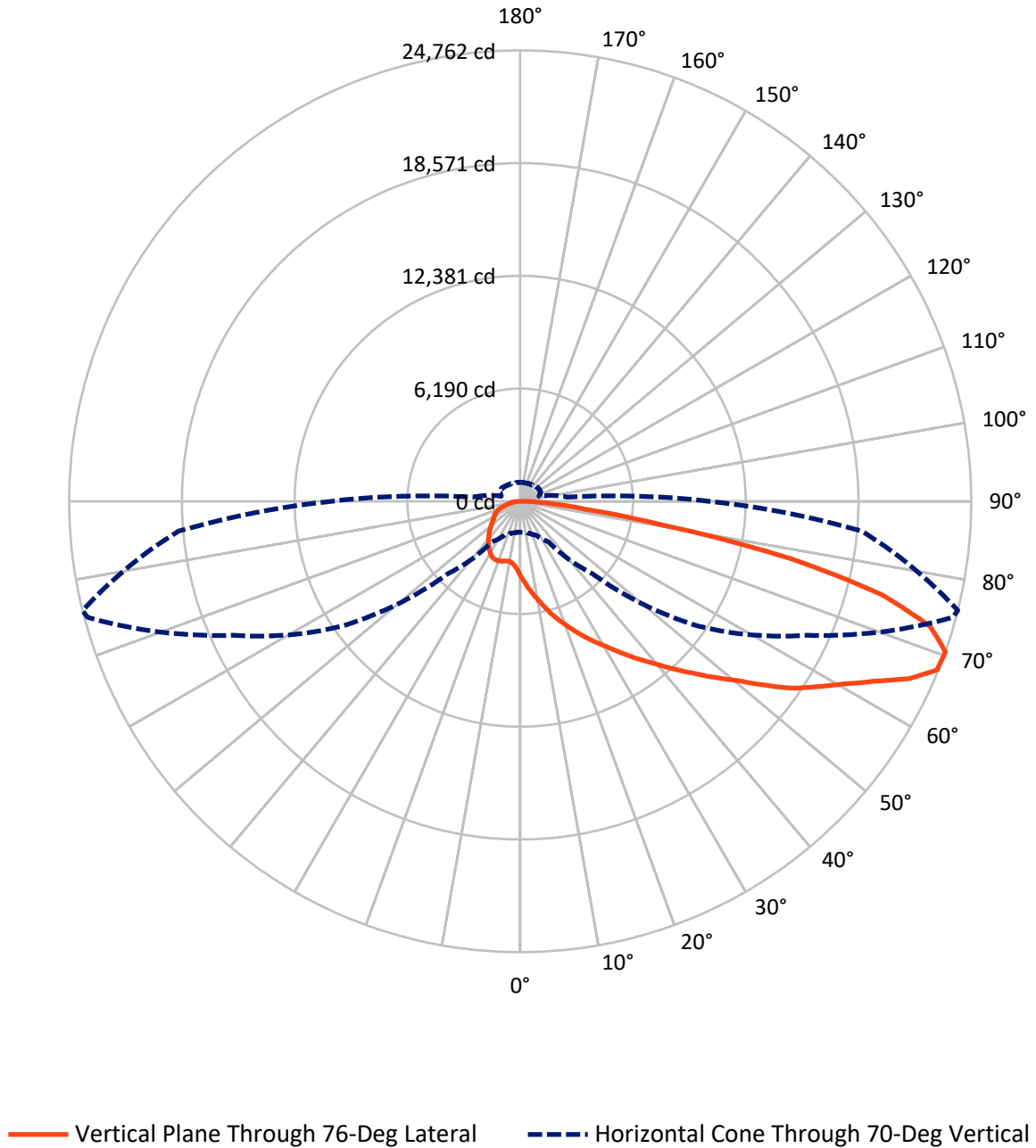
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5362.4	0.0	5362.4
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	27483.6	0.0	27483.6
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	32846.0	0.0	32846.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.8	1.3
10°-20°	1450.5	4.4
20°-30°	2595.2	7.9
30°-40°	4198.1	12.8
40°-50°	6073.1	18.5
50°-60°	6951.1	21.2
60°-70°	6394.2	19.5
70°-80°	3954.1	12.0
80°-90°	802.9	2.4
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°	32846.0	100.0
0°-180°	32846.0	100.0

**Coefficient of Utilization**



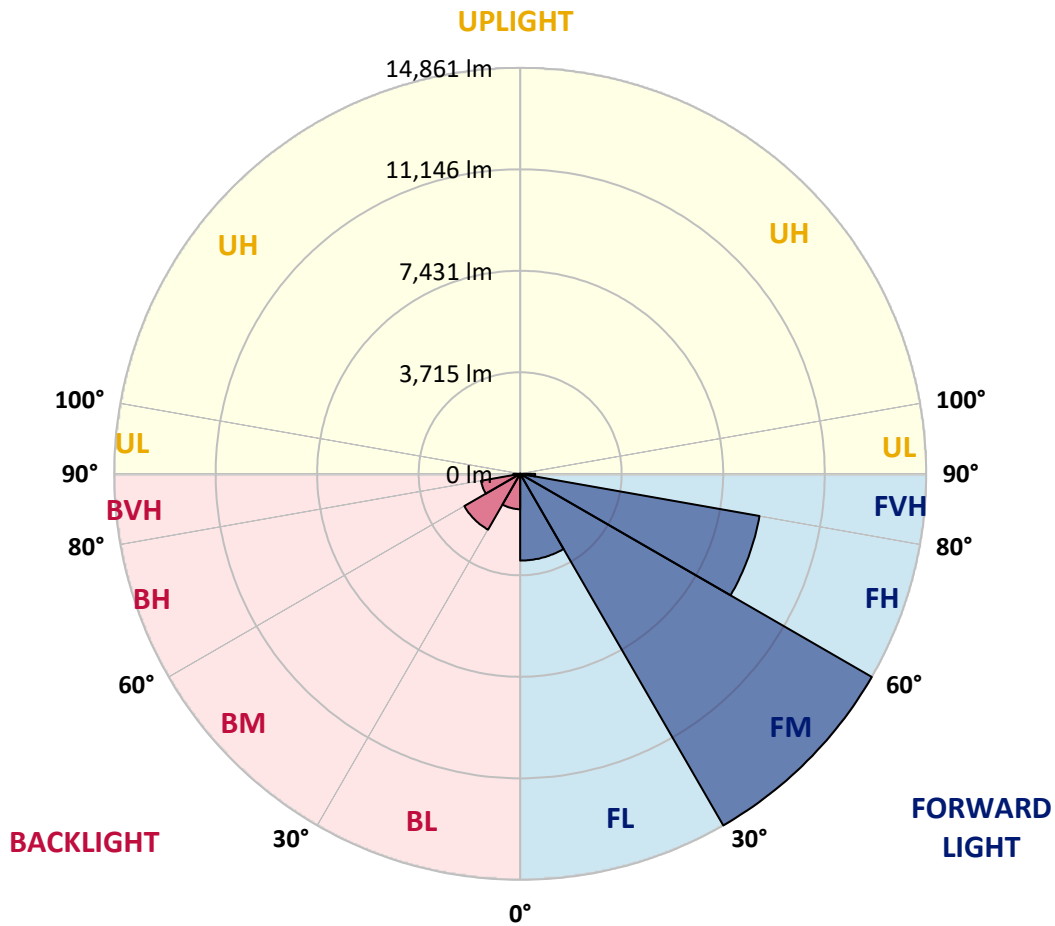
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3177.3	9.7			
FM (30°-60°)	14861.3	45.2			
FH (60°-80°)	8893.8	27.1			G4/12000
FVH (80°-90°)	551.2	1.7			G4/750
BL (0°-30°)	1295.2	3.9	B3/2500		
BM (30°-60°)	2361.0	7.2	B2/2500		
BH (60°-80°)	1454.5	4.4	B3/2500		G3/2500
BVH (80°-90°)	251.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5
2.5°	5234.8	5196.0	5191.6	5131.2	5075.0	4923.9	4815.9	4625.8	4435.8	4431.5	4241.4
5°	6051.2	6012.3	5990.7	5917.3	5822.2	5623.6	5429.2	5135.5	4811.6	4790.0	4431.5
7.5°	6604.0	6569.5	6526.3	6496.0	6405.3	6228.2	5990.7	5640.8	5196.0	5152.8	4651.7
10°	6975.5	6953.9	6945.2	6923.6	6867.5	6725.0	6496.0	6124.6	5580.4	5532.9	4885.0
12.5°	7135.3	7126.6	7165.5	7226.0	7247.6	7191.4	6971.1	6621.3	6003.6	5951.8	5165.7
15°	6949.5	6958.2	7057.5	7264.8	7485.1	7606.1	7476.5	7135.3	6483.1	6409.7	5494.0
17.5°	6863.2	6876.1	6945.2	7143.9	7454.9	7830.7	7891.1	7623.3	6945.2	6841.6	5839.5
20°	7014.3	7031.6	7083.4	7238.9	7454.9	7856.6	8171.9	8089.8	7398.7	7290.8	6172.1
22.5°	7398.7	7420.3	7416.0	7515.4	7662.2	7938.6	8327.4	8530.4	7873.9	7752.9	6517.6
25°	8219.4	8202.1	8055.3	8007.7	8046.6	8223.7	8534.7	8953.6	8370.6	8249.6	6880.4
27.5°	9333.7	9312.1	9044.3	8802.5	8586.5	8664.3	8828.4	9294.9	8875.9	8737.7	7226.0
30°	10525.8	10499.9	10188.9	9795.9	9316.5	9204.2	9182.6	9592.9	9385.6	9238.7	7593.1
32.5°	11687.7	11666.1	11333.5	10875.7	10214.8	9877.9	9670.6	9925.5	9964.3	9821.8	7994.8
35°	12745.9	12745.9	12460.8	11916.6	11169.4	10659.7	10318.5	10335.8	10629.5	10465.4	8452.6
37.5°	13687.5	13683.1	13372.2	12836.6	12119.6	11536.5	11113.2	10832.5	11264.4	11121.9	8932.0
40°	14434.7	14404.4	14175.5	13709.1	12987.8	12409.0	11981.4	11415.6	11972.7	11843.2	9441.7
42.5°	14978.9	14961.6	14806.1	14400.1	13713.4	13169.2	12875.5	12149.8	12776.1	12646.5	10037.8
45°	15190.5	15225.1	15225.1	14840.7	14296.5	13799.8	13670.2	12957.5	13644.3	13514.7	10677.0
47.5°	14849.3	14940.0	15125.7	15151.7	14672.2	14335.3	14378.5	13769.5	14538.3	14469.2	11376.7
50°	13782.5	13950.9	14356.9	15091.2	14823.4	14745.7	14983.2	14598.8	15497.2	15475.6	12227.6
52.5°	11031.2	11441.5	12707.0	14024.4	14719.7	14935.7	15583.6	15531.7	16732.5	16767.0	13337.6
55°	8461.3	8616.7	10080.9	12322.6	14084.8	14875.2	15985.3	16443.1	18071.4	18114.6	14356.9
57.5°	6841.6	6945.2	7744.3	10080.9	12637.9	14547.0	16300.6	16974.3	19099.4	19211.7	15264.0
60°	5420.6	5571.7	6107.3	7714.0	10612.2	13756.6	16520.8	17566.1	20205.1	20373.5	16348.1
62.5°	4029.8	4103.2	4608.6	5714.3	8400.8	12335.6	16404.2	18209.6	21561.3	21764.3	17652.5
65°	2867.9	2932.7	3291.2	4064.3	6211.0	10413.5	15726.1	18689.1	23263.1	23470.4	18965.5
67.5°	2146.6	2172.5	2375.5	2842.0	4185.3	8089.8	14352.6	18607.0	24507.0	24692.7	19492.4
70°	1697.4	1706.1	1805.4	2055.9	2721.1	5632.2	11946.8	17401.9	24597.7	24761.8	18827.3
72.5°	1408.1	1403.7	1459.9	1580.8	1896.1	3563.3	8850.0	15164.6	23431.5	23543.8	16970.0
75°	1161.9	1170.5	1209.4	1278.5	1446.9	2349.6	5735.9	12098.0	20671.6	20550.6	14240.3
77.5°	976.1	971.8	989.1	1049.6	1170.5	1688.8	3360.3	8742.0	15320.1	15259.6	9346.7
80°	786.1	794.7	820.6	872.5	984.8	1287.1	1986.8	5455.1	8219.4	7999.1	4466.0
82.5°	526.9	609.0	660.8	721.3	850.9	950.2	1261.2	2772.9	3675.6	3619.5	2025.7
85°	250.5	332.6	492.4	561.5	691.1	596.0	855.2	1321.7	1840.0	1818.4	729.9
87.5°	51.8	51.8	263.5	315.3	427.6	254.8	475.1	574.4	889.7	833.6	298.0
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°	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5	4107.5
2.5°	4129.1	4012.5	3779.3	3593.6	3403.5	3295.5	3161.6	3096.8	3083.9	3049.3	3075.3
5°	4202.6	3973.6	3533.1	3243.7	3049.3	2954.3	2906.8	2889.5	2885.2	2876.6	2876.6
7.5°	4301.9	3952.0	3377.6	3083.9	2958.6	2928.4	2941.4	2967.3	2971.6	2980.2	2975.9
10°	4422.8	3956.4	3291.2	3045.0	2984.5	2988.9	3032.1	3066.6	3083.9	3096.8	3092.5
12.5°	4591.3	4008.2	3278.3	3070.9	3045.0	3062.3	3105.5	3140.0	3157.3	3161.6	3161.6
15°	4811.6	4116.2	3308.5	3127.1	3105.5	3118.4	3144.4	3157.3	3161.6	3157.3	3157.3
17.5°	5053.4	4245.7	3351.7	3161.6	3127.1	3114.1	3105.5	3092.5	3066.6	3049.3	3049.3
20°	5286.7	4362.4	3373.3	3157.3	3096.8	3045.0	2993.2	2928.4	2885.2	2850.7	2850.7
22.5°	5519.9	4470.3	3373.3	3109.8	3014.8	2915.4	2807.5	2703.8	2639.0	2595.8	2595.8
25°	5766.1	4574.0	3347.4	3027.7	2885.2	2742.7	2595.8	2466.2	2401.5	2358.3	2349.6
27.5°	5973.4	4634.5	3278.3	2911.1	2725.4	2544.0	2375.5	2241.7	2194.1	2155.3	2155.3
30°	6193.7	4673.3	3148.7	2760.0	2544.0	2336.7	2163.9	2055.9	2004.1	1947.9	1943.6
32.5°	6439.9	4699.3	3001.8	2600.1	2358.3	2138.0	1991.1	1904.8	1792.5	1732.0	1723.3
35°	6725.0	4733.8	2846.3	2418.7	2172.5	1973.9	1887.5	1744.9	1637.0	1585.1	1580.8
37.5°	7027.3	4759.7	2677.9	2258.9	2004.1	1865.9	1779.5	1611.1	1516.0	1438.3	1429.6
40°	7346.9	4759.7	2505.1	2103.4	1870.2	1818.4	1654.2	1503.1	1343.3	1304.4	1295.8
42.5°	7701.1	4751.1	2332.4	1952.3	1744.9	1710.4	1580.8	1421.0	1338.9	1304.4	1295.8
45°	8076.9	4720.9	2168.2	1779.5	1615.4	1546.3	1446.9	1403.7	1369.2	1369.2	1369.2
47.5°	8504.5	4694.9	1982.5	1624.0	1520.3	1442.6	1369.2	1343.3	1338.9	1351.9	1364.9
50°	9053.0	4686.3	1827.0	1511.7	1446.9	1356.2	1347.6	1326.0	1330.3	1330.3	1330.3
52.5°	9718.1	4608.6	1680.2	1429.6	1373.5	1265.5	1291.4	1313.0	1321.7	1317.3	1313.0
55°	10206.2	4470.3	1554.9	1373.5	1321.7	1231.0	1265.5	1300.1	1308.7	1295.8	1295.8
57.5°	10646.8	4276.0	1455.6	1330.3	1287.1	1209.4	1248.2	1282.8	1274.2	1269.8	1265.5
60°	11152.1	4090.3	1377.8	1308.7	1252.6	1200.7	1235.3	1256.9	1243.9	1235.3	1231.0
62.5°	11700.6	3908.9	1321.7	1308.7	1226.6	1196.4	1222.3	1231.0	1205.0	1196.4	1196.4
65°	11955.5	3623.8	1261.2	1308.7	1213.7	1187.8	1196.4	1187.8	1161.9	1161.9	1157.5
67.5°	11536.5	3153.0	1183.5	1291.4	1231.0	1174.8	1157.5	1144.6	1114.3	1114.3	1105.7
70°	10379.0	2591.5	1071.2	1235.3	1235.3	1170.5	1105.7	1075.5	1040.9	1053.9	1036.6
72.5°	8867.3	2055.9	932.9	1140.3	1209.4	1166.2	1049.6	1002.0	971.8	984.8	958.9
75°	7182.8	1593.8	768.8	989.1	1144.6	1144.6	993.4	928.6	894.1	894.1	863.8
77.5°	4578.3	1179.1	626.3	820.6	1028.0	1114.3	945.9	846.6	794.7	781.8	760.2
80°	2267.6	829.3	514.0	652.2	876.8	1045.2	911.3	751.5	678.1	652.2	613.3
82.5°	1205.0	574.4	410.3	509.7	699.7	941.6	868.2	647.9	557.2	518.3	475.1
85°	539.9	354.2	328.3	388.7	531.3	773.1	781.8	531.3	427.6	509.7	375.8
87.5°	198.7	159.8	159.8	198.7	306.7	323.9	552.9	341.2	272.1	185.7	146.9
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)