

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: P399841

Luminaire Tested: **ARCH-L-PA3-200-727-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399841  
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-PA3-200-727-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24435 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

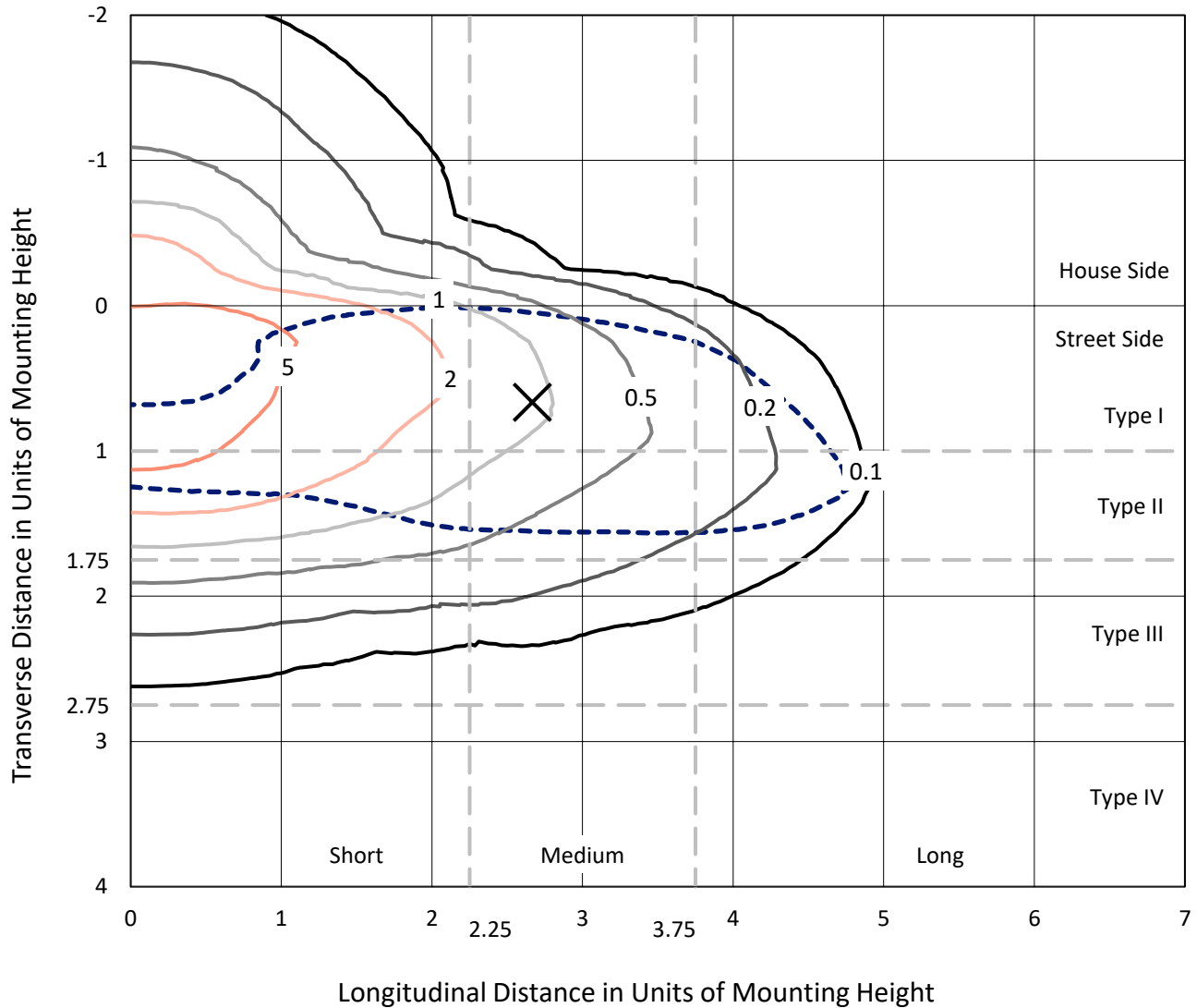
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P399841  
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### Iso-Footcandle Lines of Horizontal Illumination

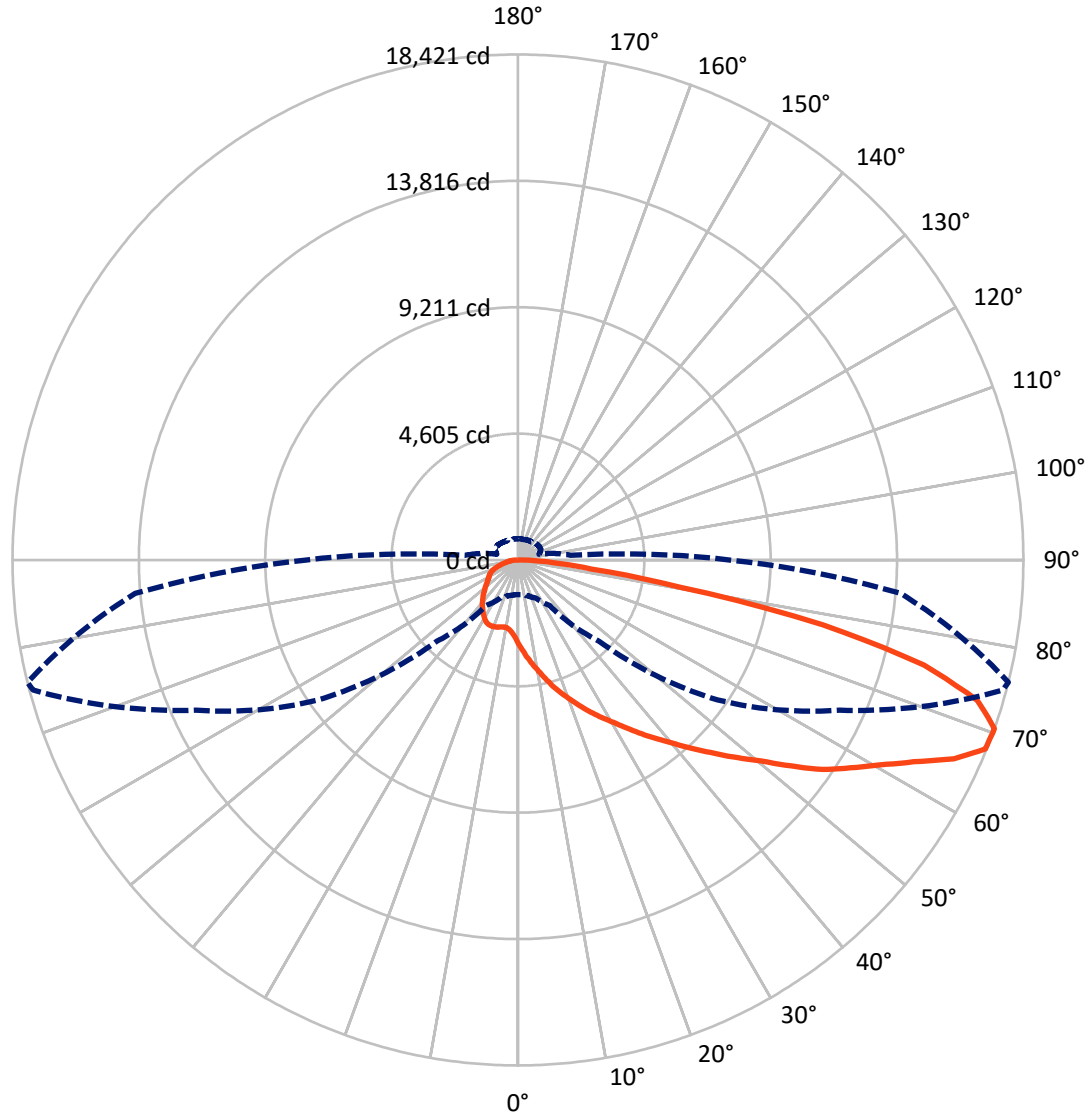
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P399841  
CATALOG NUMBER: ARCH-L-PA3-200-727-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P399841

CATALOG NUMBER: ARCH-L-PA3-200-727-U-T2R

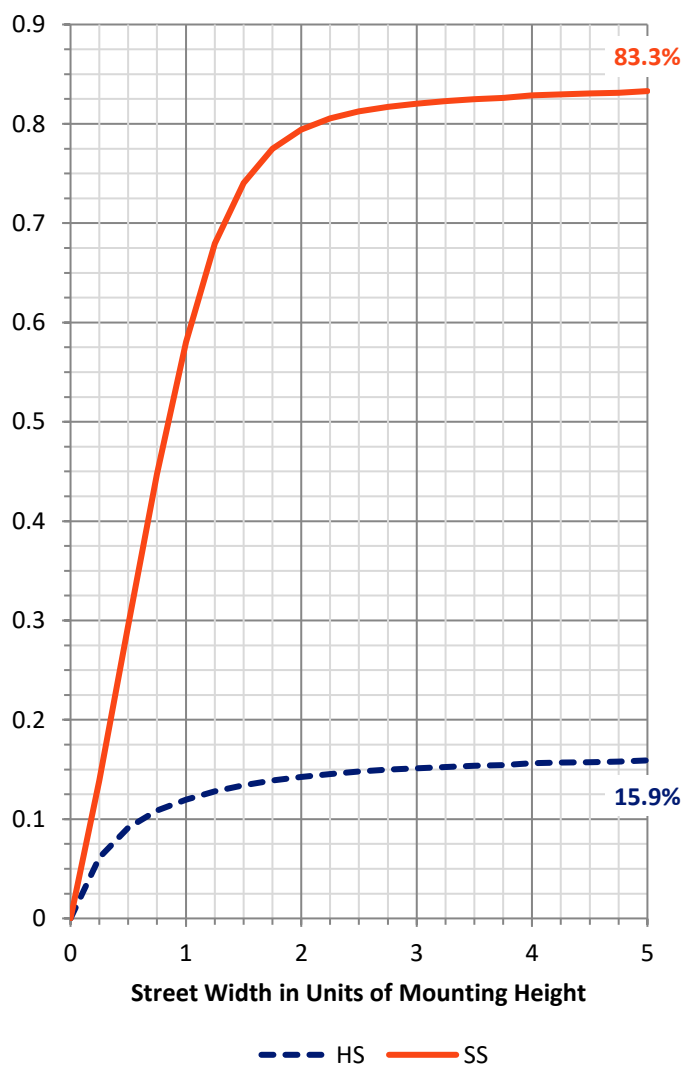
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3989.3	0.0	3989.3
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	20445.7	0.0	20445.7
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	24435.0	0.0	24435.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.5	1.3
10°-20°	1079.1	4.4
20°-30°	1930.6	7.9
30°-40°	3123.1	12.8
40°-50°	4518.0	18.5
50°-60°	5171.1	21.2
60°-70°	4756.8	19.5
70°-80°	2941.5	12.0
80°-90°	597.3	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°	24435.0	100.0
0°-180°	24435.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P399841

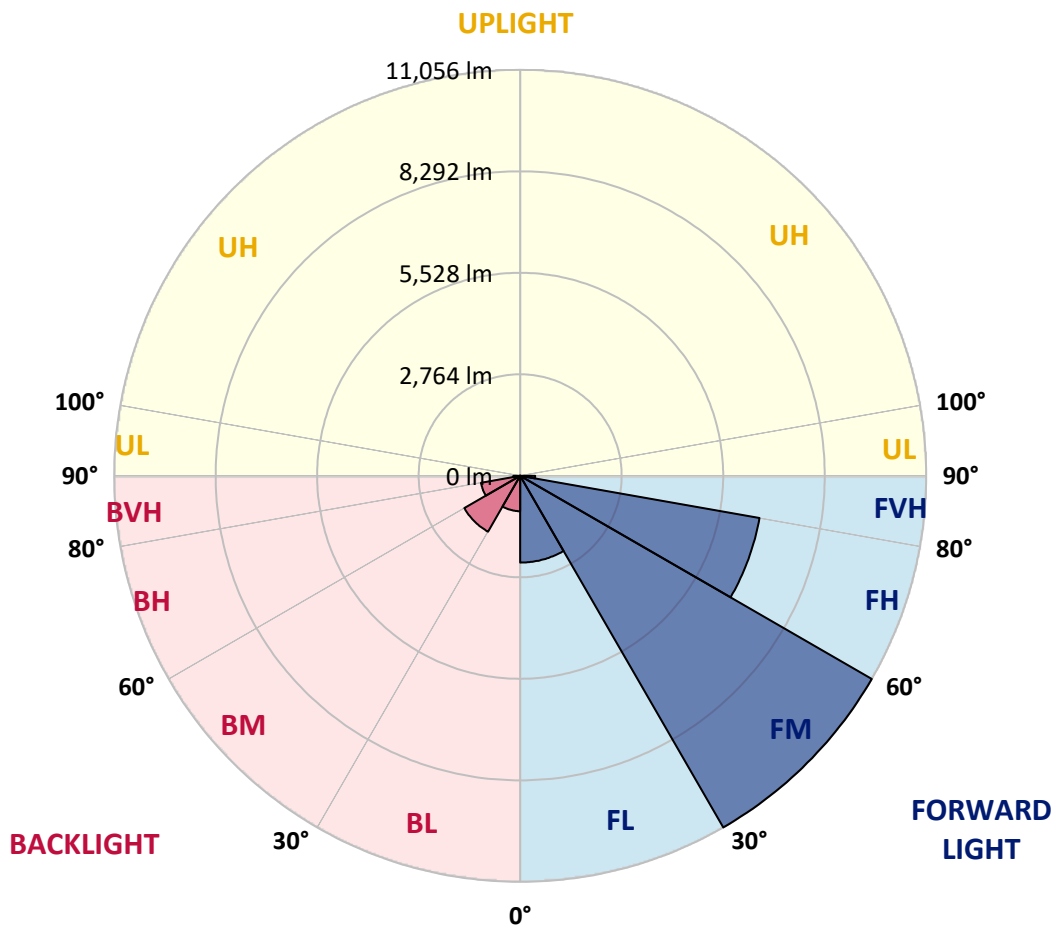
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2363.7	9.7			
FM (30°-60°)	11055.7	45.2			
FH (60°-80°)	6616.3	27.1			G3/7500
FVH (80°-90°)	410.1	1.7			G3/500
BL (0°-30°)	963.5	3.9	B2/1000		
BM (30°-60°)	1756.4	7.2	B2/2500		
BH (60°-80°)	1082.0	4.4	B3/2500		G3/2500
BVH (80°-90°)	187.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





REPORT NUMBER: P399841

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7
2.5°	3894.3	3865.4	3862.2	3817.2	3775.4	3663.0	3582.7	3441.3	3299.9	3296.7	3155.3
5°	4501.6	4472.7	4456.6	4402.0	4331.3	4183.5	4038.9	3820.4	3579.4	3563.4	3296.7
7.5°	4912.9	4887.2	4855.1	4832.6	4765.1	4633.4	4456.6	4196.4	3865.4	3833.3	3460.6
10°	5189.2	5173.2	5166.7	5150.7	5108.9	5002.9	4832.6	4556.2	4151.4	4116.0	3634.1
12.5°	5308.1	5301.7	5330.6	5375.6	5391.7	5349.9	5186.0	4925.8	4466.3	4427.7	3842.9
15°	5170.0	5176.4	5250.3	5404.5	5568.4	5658.3	5562.0	5308.1	4822.9	4768.3	4087.1
17.5°	5105.7	5115.3	5166.7	5314.5	5545.9	5825.4	5870.4	5671.2	5166.7	5089.6	4344.2
20°	5218.1	5231.0	5269.6	5385.2	5545.9	5844.7	6079.3	6018.2	5504.1	5423.8	4591.6
22.5°	5504.1	5520.2	5517.0	5590.9	5700.1	5905.8	6194.9	6346.0	5857.6	5767.6	4848.6
25°	6114.6	6101.8	5992.5	5957.2	5986.1	6117.8	6349.2	6660.9	6227.1	6137.1	5118.5
27.5°	6943.6	6927.5	6728.3	6548.4	6387.7	6445.6	6567.7	6914.7	6603.0	6500.2	5375.6
30°	7830.4	7811.2	7579.8	7287.4	6930.8	6847.2	6831.1	7136.4	6982.2	6872.9	5648.7
32.5°	8694.8	8678.7	8431.3	8090.7	7599.1	7348.5	7194.2	7383.8	7412.7	7306.7	5947.5
35°	9482.0	9482.0	9269.9	8865.1	8309.2	7930.0	7676.2	7689.1	7907.6	7785.5	6288.1
37.5°	10182.5	10179.2	9947.9	9549.5	9016.1	8582.3	8267.4	8058.6	8379.9	8273.8	6644.8
40°	10738.3	10715.8	10545.5	10198.5	9661.9	9231.4	8913.3	8492.3	8906.8	8810.4	7023.9
42.5°	11143.2	11130.3	11014.7	10712.6	10201.7	9796.9	9578.4	9038.6	9504.5	9408.1	7467.3
45°	11300.6	11326.3	11326.3	11040.4	10635.5	10266.0	10169.6	9639.4	10150.3	10053.9	7942.9
47.5°	11046.8	11114.3	11252.4	11271.7	10915.1	10664.4	10696.6	10243.5	10815.4	10764.0	8463.4
50°	10253.1	10378.5	10680.5	11226.7	11027.5	10969.7	11146.4	10860.4	11528.8	11512.7	9096.4
52.5°	8206.4	8511.6	9453.1	10433.1	10950.4	11111.1	11593.0	11554.5	12447.7	12473.4	9922.2
55°	6294.6	6410.2	7499.5	9167.1	10478.1	11066.1	11891.9	12232.4	13443.8	13475.9	10680.5
57.5°	5089.6	5166.7	5761.2	7499.5	9401.7	10821.9	12126.4	12627.7	14208.5	14292.1	11355.3
60°	4032.5	4145.0	4543.4	5738.7	7894.7	10233.9	12290.3	13067.9	15031.1	15156.4	12161.8
62.5°	2997.9	3052.5	3428.4	4251.0	6249.6	9176.7	12203.5	13546.6	16040.0	16191.0	13132.1
65°	2133.5	2181.7	2448.4	3023.6	4620.5	7746.9	11699.1	13903.3	17306.0	17460.2	14108.9
67.5°	1596.9	1616.2	1767.2	2114.2	3113.5	6018.2	10677.3	13842.2	18231.4	18369.6	14500.9
70°	1262.8	1269.2	1343.1	1529.5	2024.3	4189.9	8887.6	12945.8	18298.9	18421.0	14006.1
72.5°	1047.5	1044.3	1086.0	1176.0	1410.6	2650.8	6583.7	11281.4	17431.3	17514.9	12624.4
75°	864.3	870.8	899.7	951.1	1076.4	1748.0	4267.1	9000.0	15378.1	15288.1	10593.7
77.5°	726.2	723.0	735.8	780.8	870.8	1256.3	2499.8	6503.4	11397.0	11352.0	6953.2
80°	584.8	591.2	610.5	649.1	732.6	957.5	1478.0	4058.2	6114.6	5950.7	3322.4
82.5°	392.0	453.1	491.6	536.6	633.0	706.9	938.2	2062.8	2734.4	2692.6	1507.0
85°	186.4	247.4	366.3	417.7	514.1	443.4	636.2	983.2	1368.8	1352.7	543.0
87.5°	38.6	38.6	196.0	234.6	318.1	189.6	353.4	427.3	661.9	620.1	221.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399841

CATALOG NUMBER: ARCH-L-PA3-200-727-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7	3055.7
2.5°	3071.8	2985.0	2811.5	2673.3	2532.0	2451.6	2352.0	2303.8	2294.2	2268.5	2287.8
5°	3126.4	2956.1	2628.4	2413.1	2268.5	2197.8	2162.4	2149.6	2146.4	2140.0	2140.0
7.5°	3200.3	2940.0	2512.7	2294.2	2201.0	2178.5	2188.2	2207.4	2210.6	2217.1	2213.9
10°	3290.3	2943.2	2448.4	2265.3	2220.3	2223.5	2255.6	2281.3	2294.2	2303.8	2300.6
12.5°	3415.6	2981.8	2438.8	2284.5	2265.3	2278.1	2310.3	2336.0	2348.8	2352.0	2352.0
15°	3579.4	3062.1	2461.3	2326.3	2310.3	2319.9	2339.2	2348.8	2352.0	2348.8	2348.8
17.5°	3759.4	3158.5	2493.4	2352.0	2326.3	2316.7	2310.3	2300.6	2281.3	2268.5	2268.5
20°	3932.9	3245.3	2509.5	2348.8	2303.8	2265.3	2226.7	2178.5	2146.4	2120.7	2120.7
22.5°	4106.4	3325.6	2509.5	2313.5	2242.8	2168.9	2088.5	2011.4	1963.2	1931.1	1931.1
25°	4289.5	3402.7	2490.2	2252.4	2146.4	2040.3	1931.1	1834.7	1786.5	1754.4	1748.0
27.5°	4443.8	3447.7	2438.8	2165.7	2027.5	1892.5	1767.2	1667.6	1632.3	1603.4	1603.4
30°	4607.7	3476.6	2342.4	2053.2	1892.5	1738.3	1609.8	1529.5	1490.9	1449.1	1445.9
32.5°	4790.8	3495.9	2233.1	1934.3	1754.4	1590.5	1481.3	1417.0	1333.5	1288.5	1282.0
35°	5002.9	3521.6	2117.5	1799.4	1616.2	1468.4	1404.1	1298.1	1217.8	1179.2	1176.0
37.5°	5227.8	3540.9	1992.2	1680.5	1490.9	1388.1	1323.8	1198.5	1127.8	1070.0	1063.6
40°	5465.6	3540.9	1863.6	1564.8	1391.3	1352.7	1230.6	1118.2	999.3	970.4	963.9
42.5°	5729.0	3534.5	1735.1	1452.3	1298.1	1272.4	1176.0	1057.1	996.1	970.4	963.9
45°	6008.6	3512.0	1613.0	1323.8	1201.7	1150.3	1076.4	1044.3	1018.6	1018.6	1018.6
47.5°	6326.7	3492.7	1474.8	1208.1	1131.0	1073.2	1018.6	999.3	996.1	1005.7	1015.4
50°	6734.8	3486.3	1359.2	1124.6	1076.4	1008.9	1002.5	986.4	989.6	989.6	989.6
52.5°	7229.6	3428.4	1249.9	1063.6	1021.8	941.5	960.7	976.8	983.2	980.0	976.8
55°	7592.7	3325.6	1156.7	1021.8	983.2	915.7	941.5	967.2	973.6	963.9	963.9
57.5°	7920.4	3181.0	1082.8	989.6	957.5	899.7	928.6	954.3	947.9	944.7	941.5
60°	8296.3	3042.8	1025.0	973.6	931.8	893.3	919.0	935.0	925.4	919.0	915.7
62.5°	8704.4	2907.9	983.2	973.6	912.5	890.0	909.3	915.7	896.5	890.0	890.0
65°	8894.0	2695.8	938.2	973.6	902.9	883.6	890.0	883.6	864.3	864.3	861.1
67.5°	8582.3	2345.6	880.4	960.7	915.7	874.0	861.1	851.5	829.0	829.0	822.6
70°	7721.2	1927.9	796.9	919.0	919.0	870.8	822.6	800.1	774.4	784.0	771.2
72.5°	6596.6	1529.5	694.0	848.3	899.7	867.5	780.8	745.4	723.0	732.6	713.3
75°	5343.5	1185.7	571.9	735.8	851.5	851.5	739.0	690.8	665.1	665.1	642.6
77.5°	3405.9	877.2	465.9	610.5	764.7	829.0	703.7	629.8	591.2	581.6	565.5
80°	1686.9	616.9	382.4	485.2	652.3	777.6	678.0	559.1	504.5	485.2	456.3
82.5°	896.5	427.3	305.2	379.2	520.5	700.5	645.8	482.0	414.5	385.6	353.4
85°	401.6	263.5	244.2	289.2	395.2	575.2	581.6	395.2	318.1	379.2	279.5
87.5°	147.8	118.9	118.9	147.8	228.1	241.0	411.3	253.8	202.4	138.2	109.2
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)