

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: P400412

Luminaire Tested: **ARCH-L-PA3-280-722-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-280-722-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26330 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

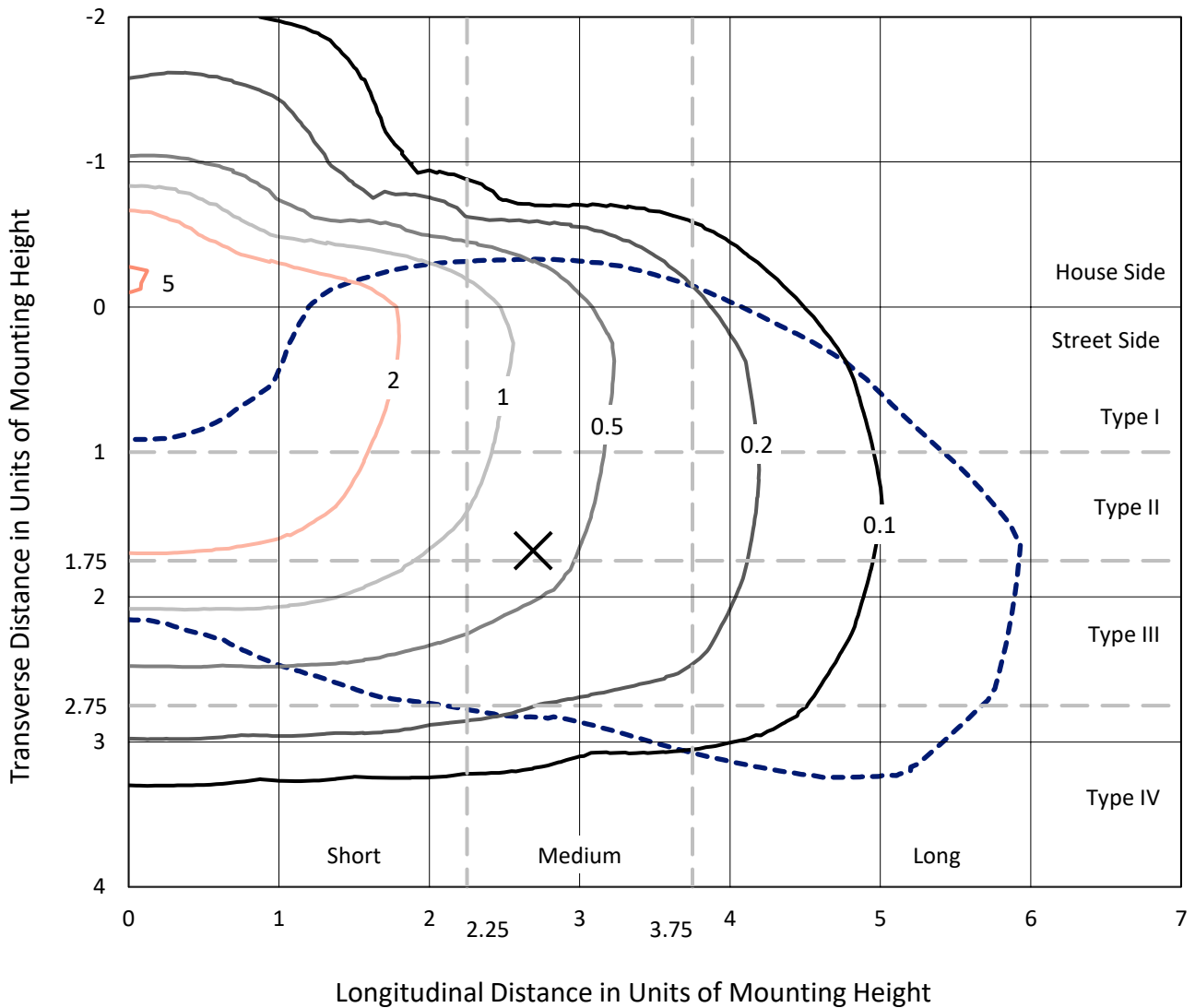
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

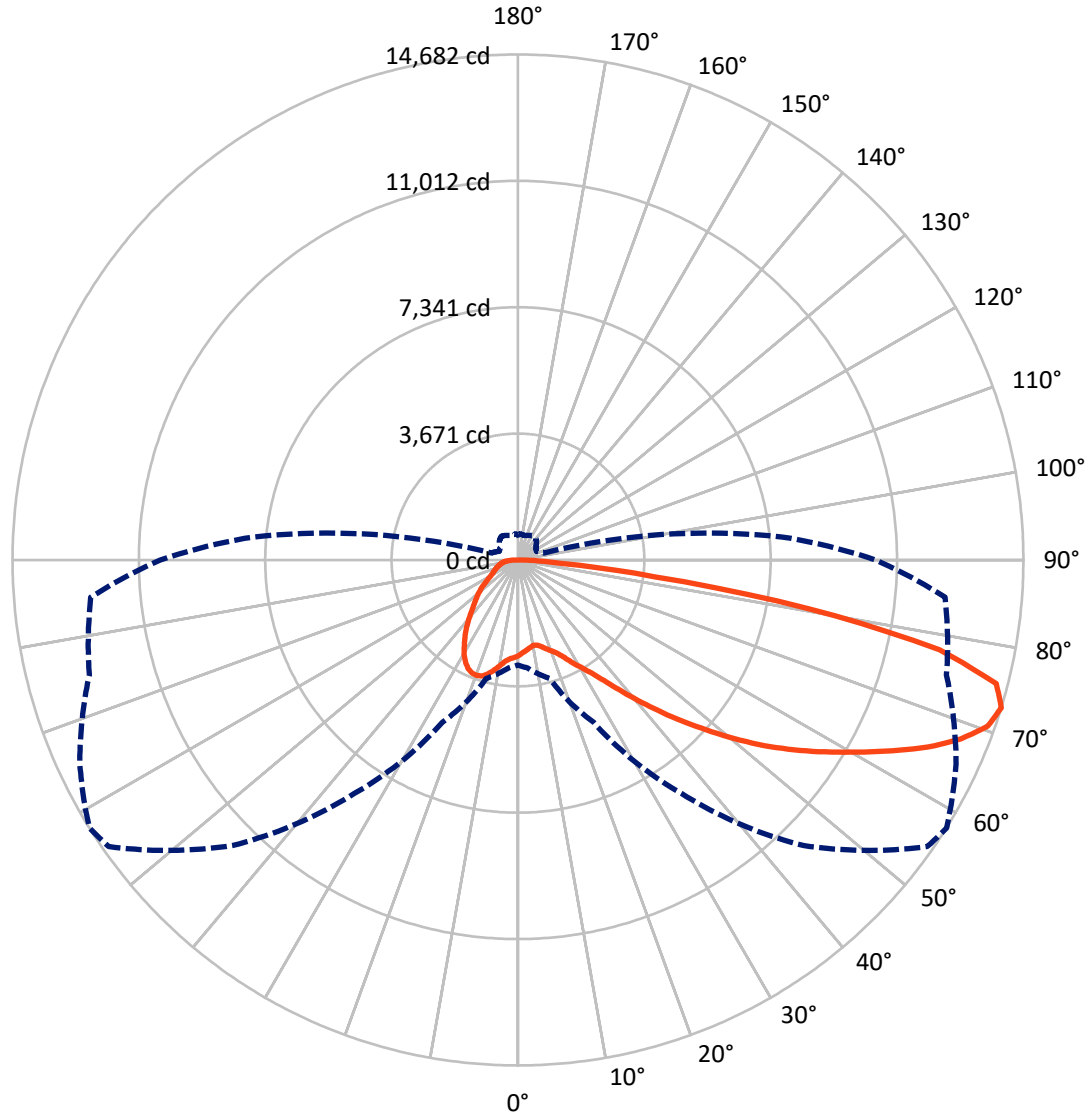
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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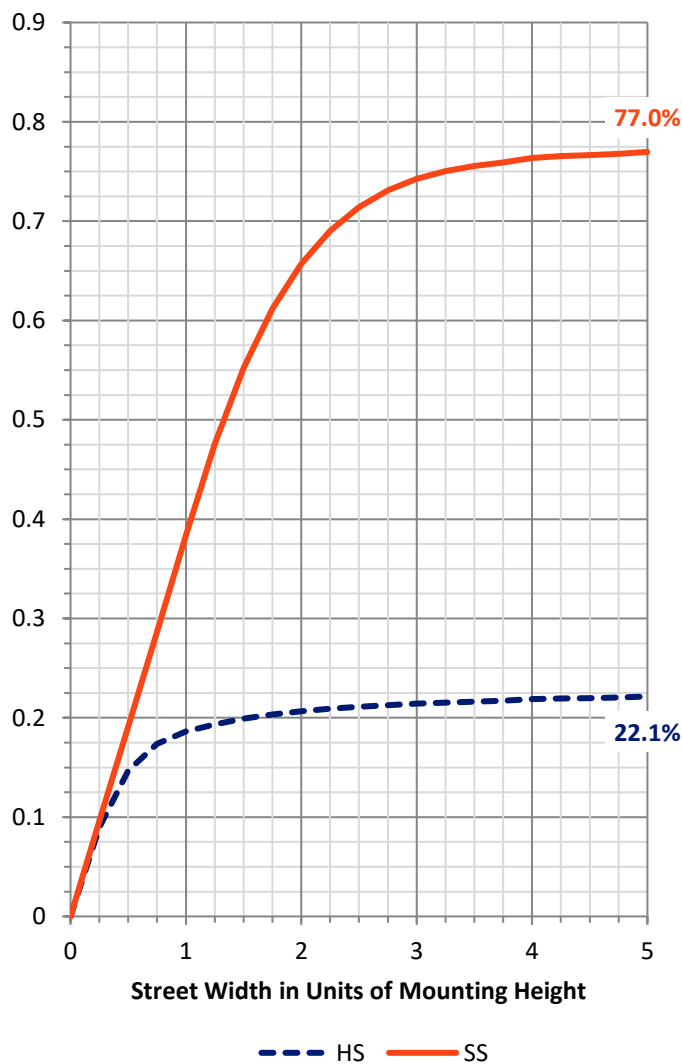
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5971.3	0.0	5971.3
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	20358.6	0.0	20358.6
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	26330.0	0.0	26330.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.5	1.0
10°-20°	849.6	3.2
20°-30°	1522.0	5.8
30°-40°	2289.5	8.7
40°-50°	3707.5	14.1
50°-60°	5580.9	21.2
60°-70°	6568.1	24.9
70°-80°	4657.4	17.7
80°-90°	887.5	3.4
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°	26330.0	100.0
0°-180°	26330.0	100.0



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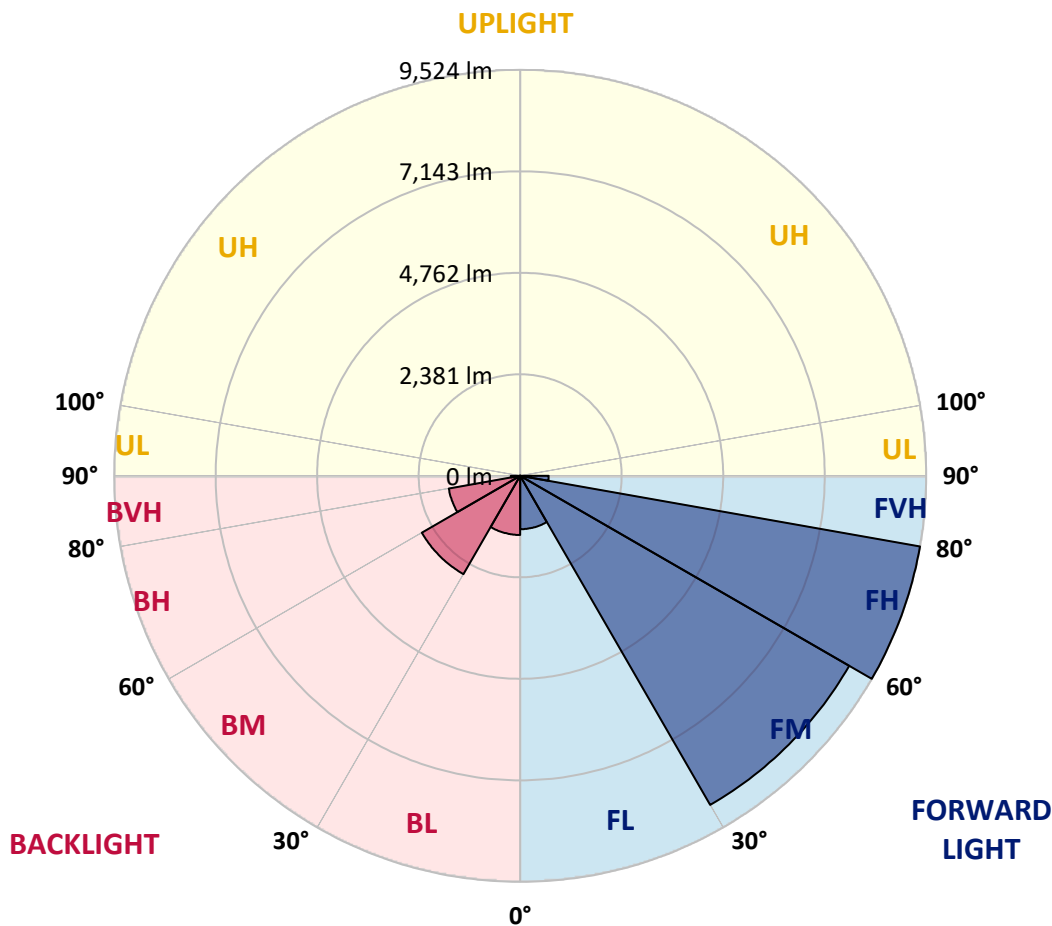
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.1	4.8			
FM (30°-60°)	8913.5	33.9			
FH (60°-80°)	9523.7	36.2			G4/12000
FVH (80°-90°)	669.4	2.5			G4/750
BL (0°-30°)	1387.0	5.3	B3/2500		
BM (30°-60°)	2664.4	10.1	B3/5000		
BH (60°-80°)	1701.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	218.1	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-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3
2.5°	2673.0	2659.1	2662.6	2662.6	2676.5	2683.4	2686.9	2697.3	2704.3	2721.6	2746.0
5°	2547.8	2537.4	2540.9	2544.4	2568.7	2593.0	2613.9	2627.8	2648.6	2676.5	2711.2
7.5°	2457.5	2450.5	2454.0	2460.9	2481.8	2509.6	2544.4	2565.2	2596.5	2648.6	2707.7
10°	2391.4	2391.4	2394.9	2408.8	2429.7	2464.4	2492.2	2516.6	2579.1	2673.0	2763.4
12.5°	2339.3	2339.3	2349.7	2377.5	2412.3	2447.0	2513.1	2540.9	2624.3	2752.9	2860.7
15°	2335.8	2339.3	2342.8	2367.1	2405.3	2481.8	2579.1	2620.8	2721.6	2874.6	2999.7
17.5°	2391.4	2394.9	2381.0	2388.0	2433.1	2540.9	2669.5	2718.2	2846.8	3013.6	3142.2
20°	2561.7	2561.7	2520.0	2481.8	2513.1	2631.3	2777.3	2825.9	2968.4	3152.7	3281.3
22.5°	2909.3	2926.7	2829.4	2746.0	2697.3	2763.4	2895.4	2947.6	3107.5	3305.6	3434.2
25°	3329.9	3347.3	3215.2	3097.0	3006.7	2996.2	3083.1	3138.8	3270.8	3475.9	3583.7
27.5°	3736.6	3705.3	3583.7	3472.4	3357.7	3263.9	3329.9	3378.6	3531.5	3687.9	3754.0
30°	4056.4	4032.1	3913.9	3833.9	3726.2	3604.5	3566.3	3618.4	3743.6	3889.5	3924.3
32.5°	4410.9	4393.6	4275.4	4171.1	4080.7	3966.0	3882.6	3906.9	3976.4	4080.7	4101.6
35°	4862.8	4901.0	4775.9	4563.9	4463.1	4351.8	4292.8	4299.7	4351.8	4417.9	4383.1
37.5°	5339.0	5384.2	5391.1	5057.5	4921.9	4821.1	4758.5	4782.9	4845.4	4890.6	4782.9
40°	6221.9	6176.7	5996.0	5749.2	5540.6	5443.3	5356.4	5352.9	5398.1	5478.0	5283.4
42.5°	7393.3	7351.6	6986.6	6666.8	6336.6	6225.4	6055.0	5982.0	6002.9	6103.7	5832.6
45°	8516.0	8498.6	8206.6	7834.7	7438.5	7222.9	6833.6	6656.4	6639.0	6718.9	6395.7
47.5°	9513.6	9437.1	9225.1	8936.6	8894.9	8331.8	7615.7	7375.9	7292.5	7337.7	6976.2
50°	10580.7	10320.0	10028.0	9850.7	10153.1	9628.3	8404.8	8154.5	7949.4	7980.7	7605.3
52.5°	11147.3	10709.3	10518.1	10570.3	10976.9	10775.3	9263.3	8957.4	8627.2	8672.4	8231.0
55°	10660.6	10657.2	10740.6	11063.8	11630.4	11397.5	10080.2	9736.0	9374.5	9385.0	8950.5
57.5°	9993.3	10128.8	10559.8	11272.4	12440.3	12051.0	10883.1	10518.1	10187.9	10135.8	9767.3
60°	9385.0	9534.4	10160.1	11237.6	12721.8	12648.9	11647.8	11328.0	11060.4	10907.4	10625.9
62.5°	8460.4	8571.6	9458.0	11015.2	12485.5	13079.9	12422.9	12203.9	12002.3	11686.0	11550.5
65°	7372.4	7410.6	8345.7	10281.8	12190.0	13246.7	13194.6	13097.2	12902.6	12436.8	12464.6
67.5°	6194.1	6270.5	7090.9	9110.4	11543.5	13170.2	13792.4	13872.4	13643.0	12944.3	13048.6
70°	4939.3	5033.1	5655.3	7490.6	10445.1	12840.0	14345.1	14473.7	14032.3	13111.1	13156.3
72.5°	3055.3	3145.7	3562.8	5203.4	8279.6	11731.2	14515.4	14682.3	14042.7	12888.7	12454.2
75°	1056.7	1067.1	1393.8	2495.7	4914.9	8856.6	13959.3	14352.0	13601.3	12078.8	10837.9
77.5°	483.2	500.5	618.7	1028.9	2179.4	4779.4	11526.1	12509.8	12259.5	10813.6	8342.2
80°	333.7	340.6	427.5	615.2	1258.3	1682.3	7275.1	8557.7	8995.7	8373.5	5346.0
82.5°	250.3	257.2	330.2	417.1	907.2	816.8	2770.3	3976.4	4942.7	4852.4	2235.0
85°	239.8	236.4	257.2	278.1	604.8	486.6	896.8	1230.5	1929.1	1651.1	563.1
87.5°	104.3	114.7	264.2	156.4	316.3	225.9	389.3	455.3	587.4	511.0	201.6
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°	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3	2777.3
2.5°	2756.4	2763.4	2784.2	2815.5	2832.9	2867.6	2892.0	2905.9	2916.3	2919.8	2919.8
5°	2732.1	2746.0	2791.2	2843.3	2892.0	2965.0	3031.0	3069.2	3097.0	3107.5	3110.9
7.5°	2739.0	2773.8	2839.8	2916.3	2978.9	3072.7	3152.7	3229.1	3291.7	3316.0	3316.0
10°	2805.1	2853.7	2944.1	3044.9	3124.8	3222.2	3305.6	3371.6	3444.6	3486.3	3493.3
12.5°	2905.9	2965.0	3083.1	3194.4	3284.7	3361.2	3437.7	3486.3	3521.1	3552.4	3559.3
15°	3048.4	3121.4	3239.6	3354.3	3434.2	3482.9	3503.7	3503.7	3500.2	3503.7	3510.7
17.5°	3190.9	3260.4	3378.6	3493.3	3531.5	3503.7	3479.4	3472.4	3469.0	3462.0	3465.5
20°	3329.9	3396.0	3496.8	3583.7	3552.4	3455.1	3423.8	3420.3	3409.9	3402.9	3396.0
22.5°	3469.0	3517.6	3601.0	3632.3	3507.2	3368.2	3329.9	3309.1	3295.2	3277.8	3260.4
25°	3628.9	3642.8	3705.3	3656.7	3396.0	3208.3	3152.7	3121.4	3107.5	3090.1	3076.2
27.5°	3778.3	3778.3	3788.7	3618.4	3232.6	2996.2	2912.8	2857.2	2853.7	2850.2	2846.8
30°	3913.9	3896.5	3861.7	3503.7	3020.6	2735.5	2610.4	2554.8	2575.7	2593.0	2596.5
32.5°	4073.8	4039.0	3941.7	3347.3	2766.8	2443.6	2290.6	2266.3	2290.6	2311.5	2297.6
35°	4324.0	4261.5	4025.1	3166.6	2523.5	2175.9	2029.9	1995.2	1988.2	1984.7	1956.9
37.5°	4682.1	4574.3	4091.2	2971.9	2283.7	1939.6	1831.8	1758.8	1692.8	1623.3	1612.8
40°	5120.0	4935.8	4136.3	2749.4	2029.9	1741.4	1626.7	1532.9	1421.6	1300.0	1286.1
42.5°	5599.7	5325.1	4157.2	2502.7	1807.5	1578.1	1435.6	1317.4	1192.2	1098.4	1081.0
45°	6117.6	5745.7	4139.8	2266.3	1626.7	1439.0	1279.1	1150.5	1049.7	983.7	969.8
47.5°	6621.6	6228.8	4091.2	2078.6	1487.7	1320.8	1157.5	1039.3	962.8	889.8	872.5
50°	7268.1	6691.1	4032.1	1932.6	1334.8	1202.7	1081.0	955.9	869.0	834.2	827.3
52.5°	7984.2	7153.4	3962.5	1748.4	1185.3	1108.8	1032.3	921.1	893.3	827.3	816.8
55°	8759.3	7702.6	3948.6	1515.5	1053.2	1042.8	983.7	952.4	959.4	827.3	809.9
57.5°	9576.1	8290.1	3979.9	1282.6	945.4	983.7	1004.5	980.2	969.8	844.6	809.9
60°	10427.7	8856.6	3886.1	1067.1	862.0	935.0	1028.9	966.3	889.8	837.7	813.4
62.5°	11255.0	9332.8	3479.4	914.2	799.5	921.1	1015.0	914.2	827.3	827.3	816.8
65°	11856.3	9544.9	2721.6	802.9	757.7	903.7	990.6	879.4	809.9	834.2	820.3
67.5°	11925.9	9325.9	1828.3	716.0	723.0	872.5	935.0	848.1	792.5	855.1	834.2
70°	11498.3	8755.8	1119.2	650.0	677.8	816.8	886.4	816.8	768.2	837.7	806.4
72.5°	10389.5	7692.2	789.0	594.4	629.1	764.7	841.2	789.0	733.4	757.7	726.5
75°	8522.9	5961.2	625.7	542.2	580.5	716.0	802.9	747.3	691.7	681.3	660.4
77.5°	6037.7	3820.0	504.0	500.5	528.3	656.9	750.8	698.7	643.0	622.2	608.3
80°	3472.4	1873.5	434.5	451.9	479.7	597.9	688.2	643.0	590.9	559.6	538.8
82.5°	1327.8	653.5	382.4	392.8	424.1	535.3	625.7	587.4	535.3	563.1	472.7
85°	431.0	358.0	312.8	323.3	354.5	444.9	552.7	521.4	462.3	410.2	378.9
87.5°	191.2	194.7	166.8	184.2	222.5	295.5	403.2	382.4	337.2	281.5	271.1
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)