

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: P399863

Luminaire Tested: **ARCH-L-PA3-200-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399863
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-PA3-200-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29017 lumens
Efficiency: N/A
Efficacy: 144.4 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

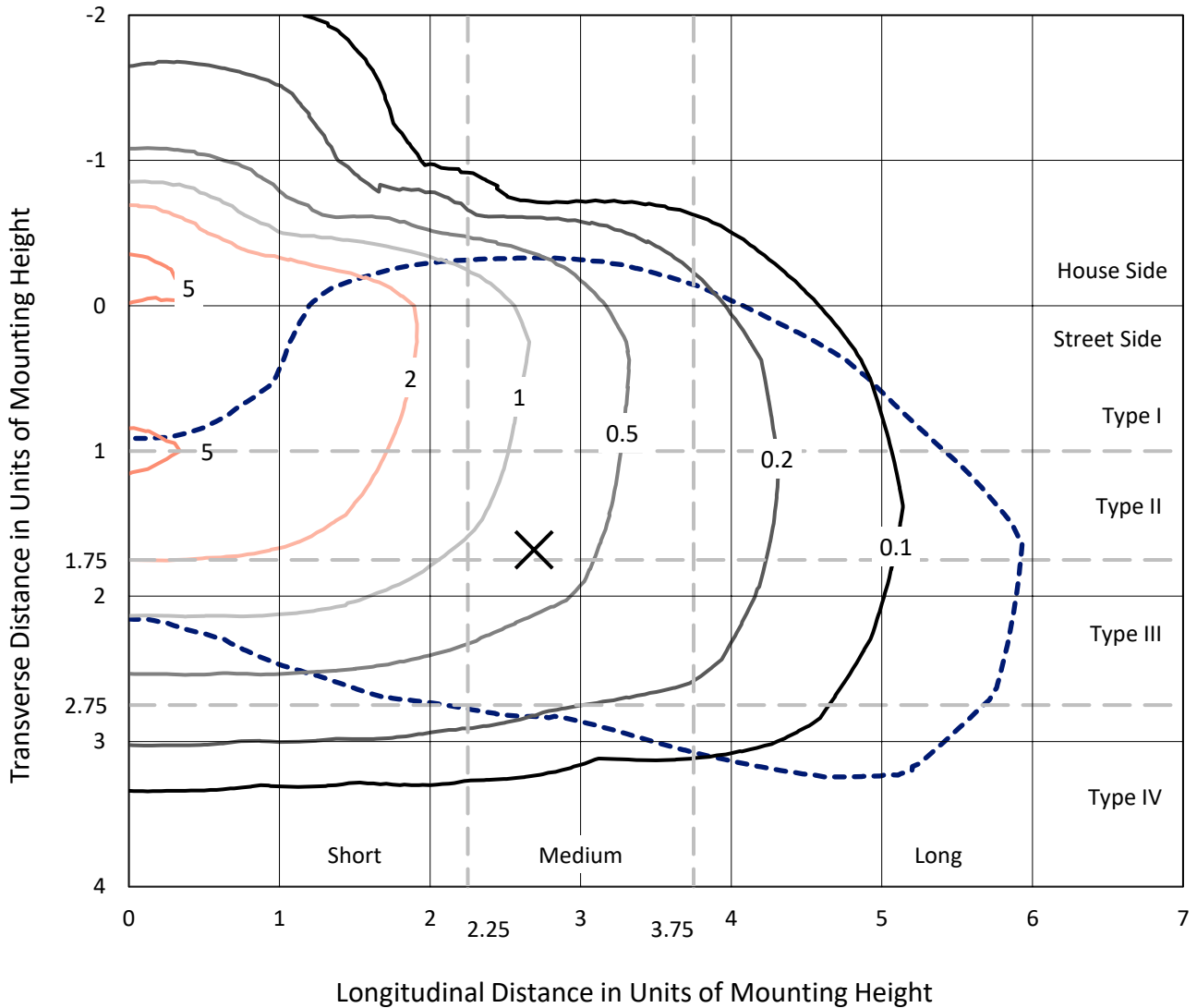
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

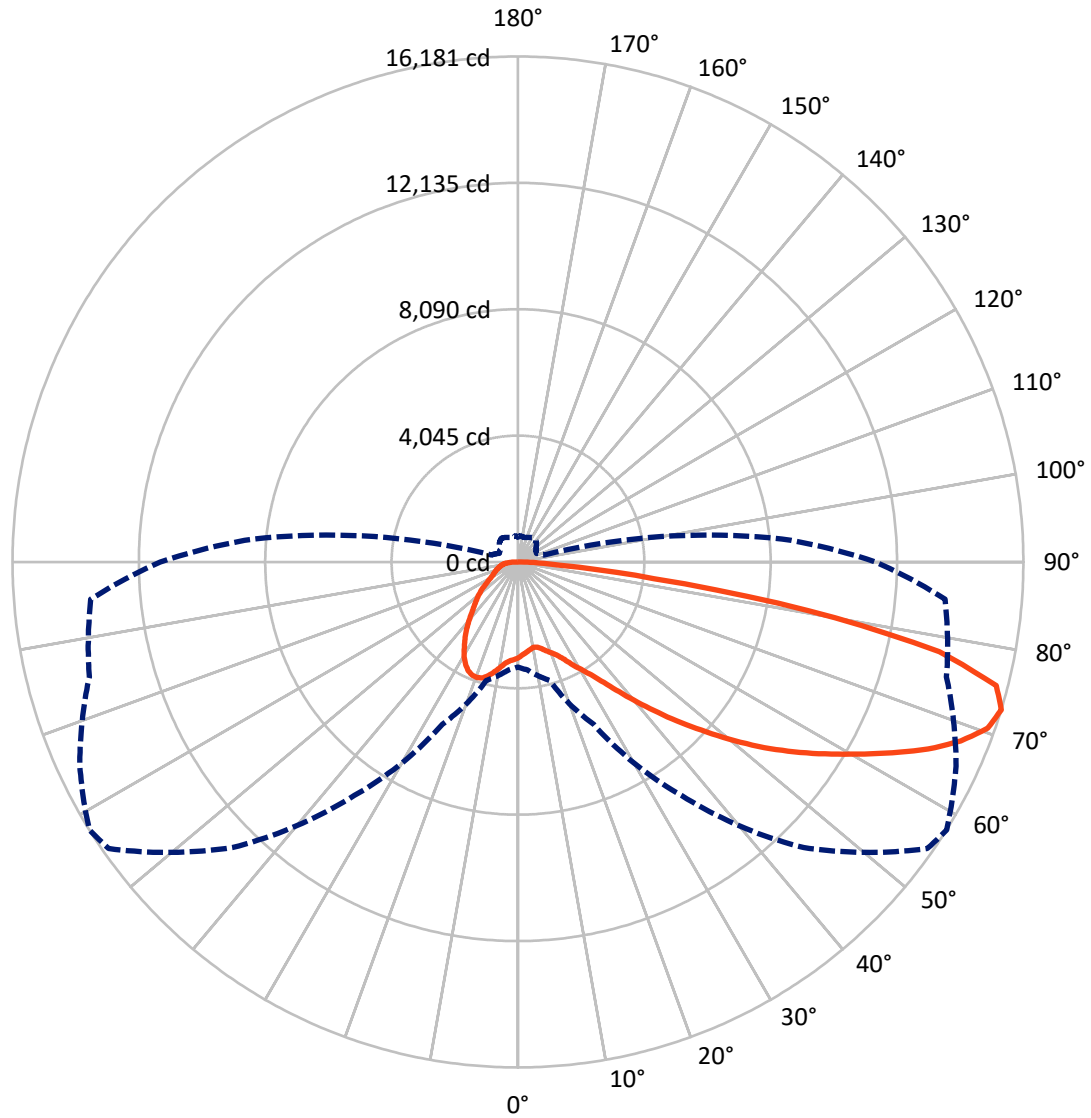
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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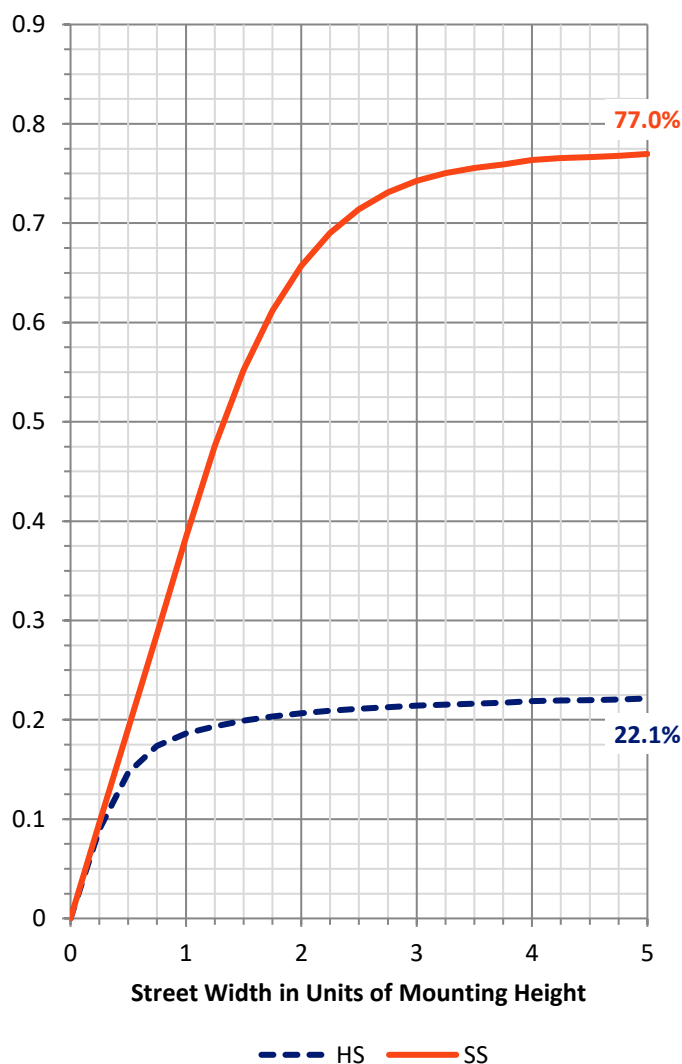
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6580.7	0.0	6580.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	22436.3	0.0	22436.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	29017.0	0.0	29017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	1.0
10°-20°	936.3	3.2
20°-30°	1677.3	5.8
30°-40°	2523.1	8.7
40°-50°	4085.8	14.1
50°-60°	6150.5	21.2
60°-70°	7238.4	24.9
70°-80°	5132.7	17.7
80°-90°	978.0	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°	29017.0	100.0
0°-180°	29017.0	100.0

Coefficient of Utilization



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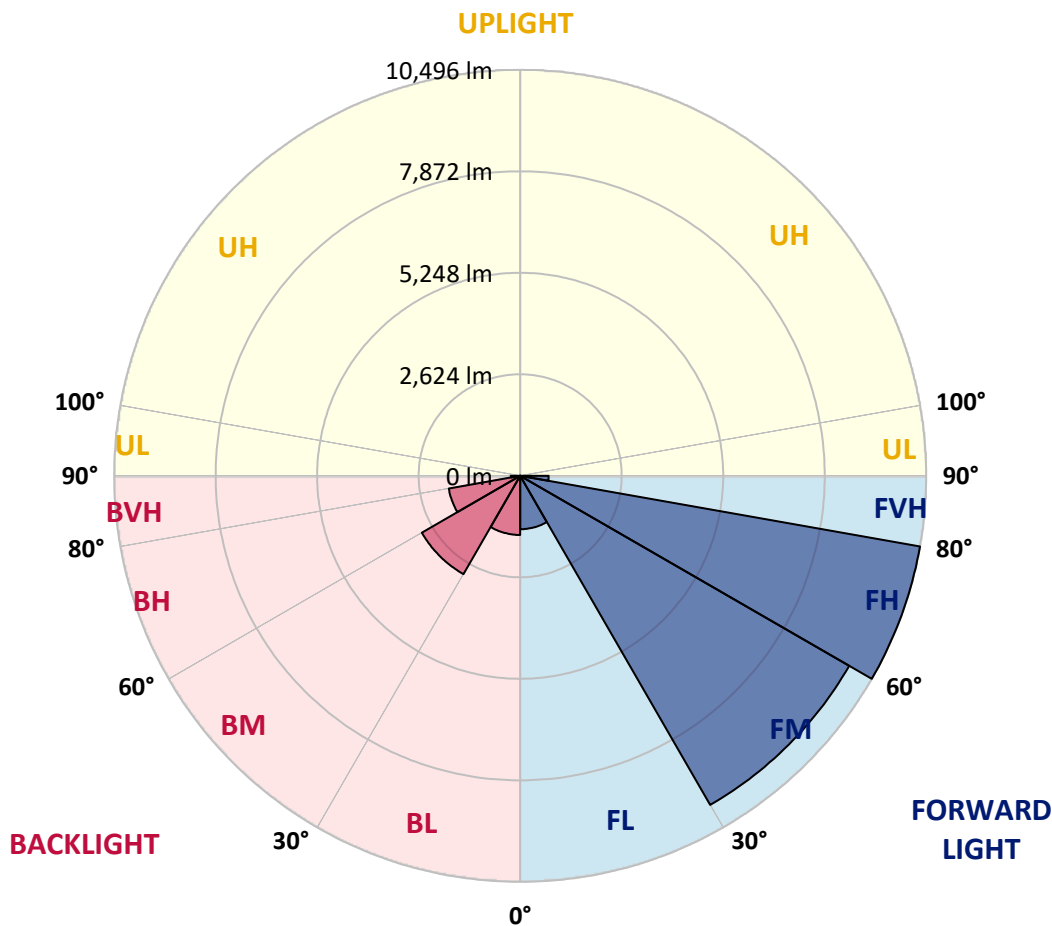
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1379.9	4.8			
FM (30°-60°)	9823.1	33.9			
FH (60°-80°)	10495.6	36.2			G4/12000
FVH (80°-90°)	737.7	2.5			G4/750
BL (0°-30°)	1528.6	5.3	B3/2500		
BM (30°-60°)	2936.3	10.1	B3/5000		
BH (60°-80°)	1875.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	240.3	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7
2.5°	2945.8	2930.4	2934.3	2934.3	2949.6	2957.2	2961.1	2972.6	2980.2	2999.4	3026.2
5°	2807.9	2796.4	2800.2	2804.0	2830.8	2857.7	2880.6	2896.0	2918.9	2949.6	2987.9
7.5°	2708.3	2700.6	2704.4	2712.1	2735.1	2765.7	2804.0	2827.0	2861.5	2918.9	2984.1
10°	2635.5	2635.5	2639.3	2654.6	2677.6	2715.9	2746.6	2773.4	2842.3	2945.8	3045.4
12.5°	2578.0	2578.0	2589.5	2620.2	2658.5	2696.8	2769.5	2800.2	2892.1	3033.9	3152.6
15°	2574.2	2578.0	2581.8	2608.7	2650.8	2735.1	2842.3	2888.3	2999.4	3167.9	3305.8
17.5°	2635.5	2639.3	2624.0	2631.6	2681.4	2800.2	2941.9	2995.6	3137.3	3321.2	3462.9
20°	2823.2	2823.2	2777.2	2735.1	2769.5	2899.8	3060.7	3114.3	3271.4	3474.4	3616.1
22.5°	3206.2	3225.4	3118.1	3026.2	2972.6	3045.4	3190.9	3248.4	3424.6	3642.9	3784.7
25°	3669.7	3688.9	3543.3	3413.1	3313.5	3302.0	3397.8	3459.1	3604.6	3830.6	3949.4
27.5°	4117.9	4083.5	3949.4	3826.8	3700.4	3597.0	3669.7	3723.4	3891.9	4064.3	4137.1
30°	4470.3	4443.5	4313.3	4225.2	4106.4	3972.4	3930.2	3987.7	4125.6	4286.5	4324.8
32.5°	4861.1	4841.9	4711.7	4596.8	4497.2	4370.8	4278.8	4305.6	4382.2	4497.2	4520.1
35°	5359.1	5401.2	5263.3	5029.6	4918.5	4796.0	4730.8	4738.5	4796.0	4868.7	4830.4
37.5°	5883.9	5933.7	5941.3	5573.6	5424.2	5313.1	5244.1	5271.0	5339.9	5389.7	5271.0
40°	6856.8	6807.0	6607.8	6335.9	6106.0	5998.8	5903.0	5899.2	5949.0	6037.1	5822.6
42.5°	8147.8	8101.8	7699.6	7347.2	6983.2	6860.7	6673.0	6592.5	6615.5	6726.6	6427.8
45°	9385.1	9365.9	9044.1	8634.2	8197.6	7960.1	7531.0	7335.7	7316.5	7404.6	7048.4
47.5°	10484.4	10400.2	10166.5	9848.6	9802.6	9182.0	8392.9	8128.6	8036.7	8086.5	7688.1
50°	11660.5	11373.2	11051.4	10856.0	11189.3	10610.9	9262.5	8986.7	8760.7	8795.1	8381.4
52.5°	12284.8	11802.2	11591.5	11649.0	12097.1	11875.0	10208.6	9871.5	9507.6	9557.4	9070.9
55°	11748.6	11744.7	11836.7	12192.9	12817.3	12560.6	11108.8	10729.6	10331.2	10342.7	9863.9
57.5°	11013.1	11162.5	11637.5	12422.7	13709.8	13280.8	11993.7	11591.5	11227.6	11170.1	10764.1
60°	10342.7	10507.4	11196.9	12384.4	14020.1	13939.7	12836.5	12484.0	12189.1	12020.5	11710.2
62.5°	9323.8	9446.3	10423.2	12139.3	13759.6	14414.7	13690.7	13449.4	13227.2	12878.6	12729.2
65°	8124.8	8166.9	9197.4	11331.0	13434.0	14598.5	14541.1	14433.8	14219.3	13706.0	13736.7
67.5°	6826.2	6910.5	7814.5	10040.1	12721.5	14514.3	15200.0	15288.1	15035.2	14265.3	14380.2
70°	5443.3	5546.8	6232.4	8255.0	11511.1	14150.4	15809.0	15950.8	15464.3	14449.2	14499.0
72.5°	3367.1	3466.7	3926.4	5734.5	9124.6	12928.4	15996.7	16180.6	15475.8	14204.0	13725.2
75°	1164.5	1176.0	1536.1	2750.4	5416.5	9760.5	15383.8	15816.7	14989.3	13311.5	11943.9
77.5°	532.5	551.6	681.9	1133.9	2401.8	5267.1	12702.4	13786.5	13510.6	11917.1	9193.5
80°	367.7	375.4	471.2	678.0	1386.7	1854.0	8017.5	9431.0	9913.7	9228.0	5891.5
82.5°	275.8	283.5	363.9	459.7	999.8	900.2	3053.0	4382.2	5447.2	5347.6	2463.1
85°	264.3	260.5	283.5	306.5	666.5	536.3	988.3	1356.0	2126.0	1819.6	620.6
87.5°	114.9	126.4	291.1	172.4	348.6	249.0	429.0	501.8	647.4	563.1	222.2
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°	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7
2.5°	3037.7	3045.4	3068.3	3102.8	3122.0	3160.3	3187.1	3202.4	3213.9	3217.7	3217.7
5°	3010.9	3026.2	3076.0	3133.5	3187.1	3267.5	3340.3	3382.4	3413.1	3424.6	3428.4
7.5°	3018.5	3056.8	3129.6	3213.9	3282.9	3386.3	3474.4	3558.7	3627.6	3654.4	3654.4
10°	3091.3	3145.0	3244.5	3355.6	3443.7	3551.0	3642.9	3715.7	3796.2	3842.1	3849.8
12.5°	3202.4	3267.5	3397.8	3520.4	3619.9	3704.2	3788.5	3842.1	3880.4	3914.9	3922.6
15°	3359.5	3439.9	3570.2	3696.6	3784.7	3838.3	3861.3	3861.3	3857.4	3861.3	3868.9
17.5°	3516.5	3593.1	3723.4	3849.8	3891.9	3861.3	3834.5	3826.8	3823.0	3815.3	3819.1
20°	3669.7	3742.5	3853.6	3949.4	3914.9	3807.7	3773.2	3769.3	3757.9	3750.2	3742.5
22.5°	3823.0	3876.6	3968.5	4003.0	3865.1	3711.9	3669.7	3646.8	3631.4	3612.3	3593.1
25°	3999.2	4014.5	4083.5	4029.8	3742.5	3535.7	3474.4	3439.9	3424.6	3405.4	3390.1
27.5°	4163.9	4163.9	4175.4	3987.7	3562.5	3302.0	3210.1	3148.8	3145.0	3141.1	3137.3
30°	4313.3	4294.1	4255.8	3861.3	3328.8	3014.7	2876.8	2815.5	2838.5	2857.7	2861.5
32.5°	4489.5	4451.2	4343.9	3688.9	3049.2	2692.9	2524.4	2497.6	2524.4	2547.4	2532.0
35°	4765.3	4696.4	4435.9	3489.7	2781.0	2398.0	2237.1	2198.8	2191.1	2187.3	2156.6
37.5°	5159.9	5041.1	4508.7	3275.2	2516.7	2137.5	2018.7	1938.3	1865.5	1788.9	1777.4
40°	5642.5	5439.5	4558.5	3030.0	2237.1	1919.1	1792.7	1689.3	1566.7	1432.7	1417.3
42.5°	6171.2	5868.5	4581.4	2758.1	1991.9	1739.1	1582.1	1451.8	1313.9	1210.5	1191.3
45°	6741.9	6332.0	4562.3	2497.6	1792.7	1585.9	1409.7	1267.9	1156.9	1084.1	1068.7
47.5°	7297.4	6864.5	4508.7	2290.7	1639.5	1455.6	1275.6	1145.4	1061.1	980.6	961.5
50°	8009.9	7374.0	4443.5	2129.8	1471.0	1325.4	1191.3	1053.4	957.7	919.4	911.7
52.5°	8799.0	7883.4	4366.9	1926.8	1306.2	1222.0	1137.7	1015.1	984.5	911.7	900.2
55°	9653.2	8488.7	4351.6	1670.2	1160.7	1149.2	1084.1	1049.6	1057.3	911.7	892.5
57.5°	10553.4	9136.1	4386.1	1413.5	1041.9	1084.1	1107.1	1080.2	1068.7	930.8	892.5
60°	11491.9	9760.5	4282.6	1176.0	950.0	1030.4	1133.9	1064.9	980.6	923.2	896.4
62.5°	12403.6	10285.3	3834.5	1007.5	881.0	1015.1	1118.5	1007.5	911.7	911.7	900.2
65°	13066.3	10518.9	2999.4	884.9	835.1	996.0	1091.7	969.2	892.5	919.4	904.0
67.5°	13142.9	10277.6	2014.9	789.1	796.8	961.5	1030.4	934.7	873.4	942.3	919.4
70°	12671.7	9649.4	1233.5	716.3	747.0	900.2	976.8	900.2	846.6	923.2	888.7
72.5°	11449.8	8477.2	869.6	655.0	693.3	842.7	927.0	869.6	808.3	835.1	800.6
75°	9392.7	6569.5	689.5	597.6	639.7	789.1	884.9	823.6	762.3	750.8	727.8
77.5°	6653.8	4209.9	555.4	551.6	582.3	724.0	827.4	770.0	708.7	685.7	670.4
80°	3826.8	2064.7	478.8	498.0	528.6	658.9	758.5	708.7	651.2	616.7	593.7
82.5°	1463.3	720.2	421.4	432.9	467.3	589.9	689.5	647.4	589.9	620.6	521.0
85°	475.0	394.6	344.8	356.2	390.7	490.3	609.1	574.6	509.5	452.0	417.5
87.5°	210.7	214.5	183.9	203.0	245.2	325.6	444.4	421.4	371.6	310.3	298.8
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)