

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: P400322

Luminaire Tested: **ARCH-L-PA3-260-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400322
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-PA3-260-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25252 lumens
Efficiency: N/A
Efficacy: 96.8 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

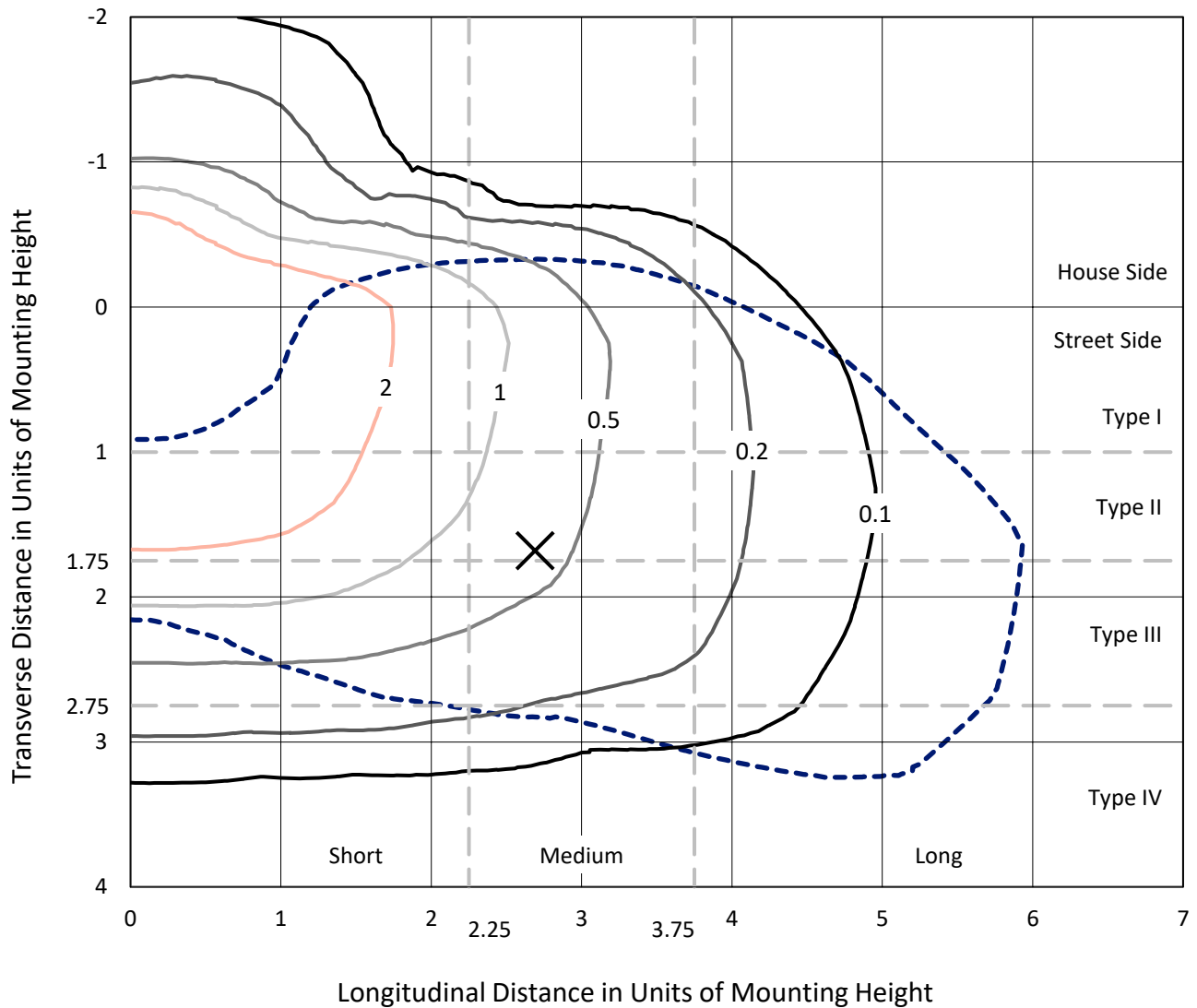
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400322
 CATALOG NUMBER: ARCH-L-PA3-260-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

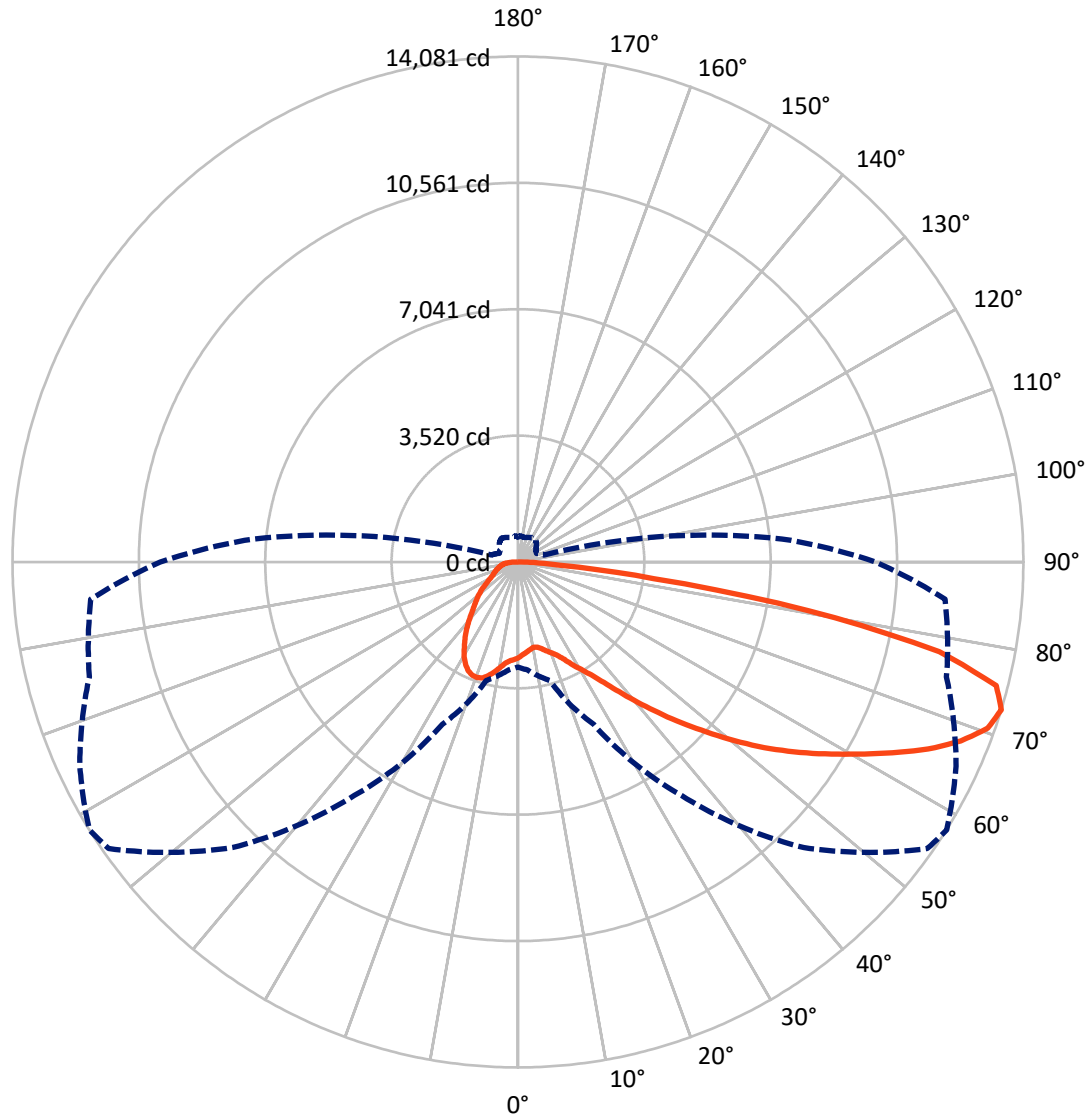
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400322
CATALOG NUMBER: ARCH-L-PA3-260-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P400322
 CATALOG NUMBER: ARCH-L-PA3-260-827-U-T3

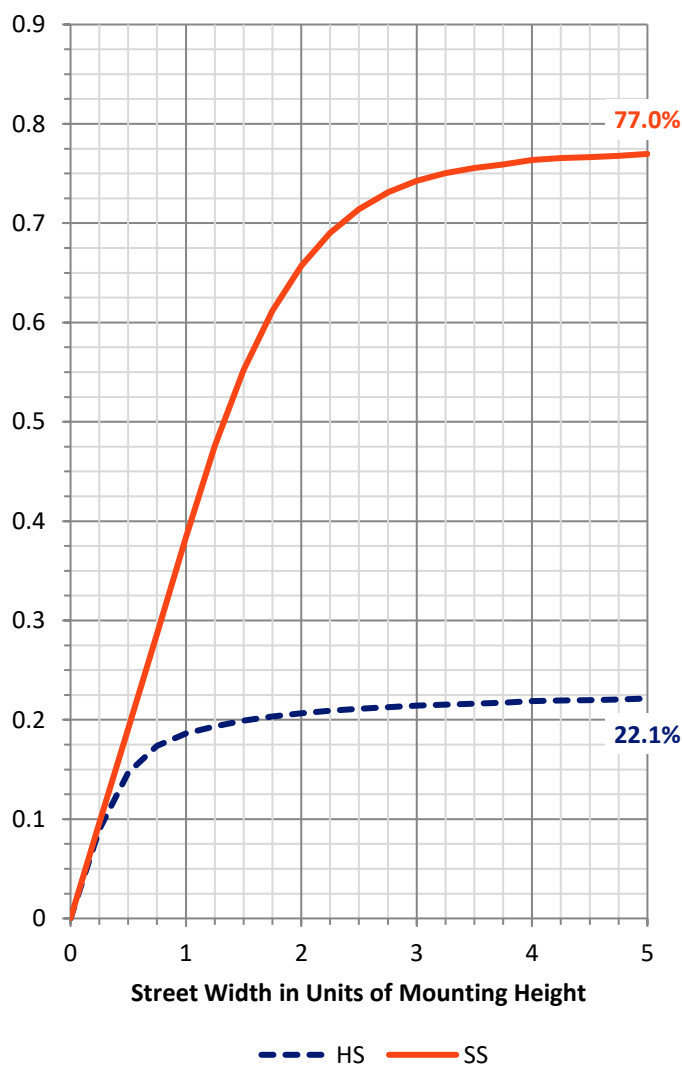
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5726.9	0.0	5726.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19525.1	0.0	19525.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	25252.0	0.0	25252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	1.0
10°-20°	814.8	3.2
20°-30°	1459.7	5.8
30°-40°	2195.7	8.7
40°-50°	3555.7	14.1
50°-60°	5352.4	21.2
60°-70°	6299.2	24.9
70°-80°	4466.7	17.7
80°-90°	851.1	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°	25252.0	100.0
0°-180°	25252.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400322

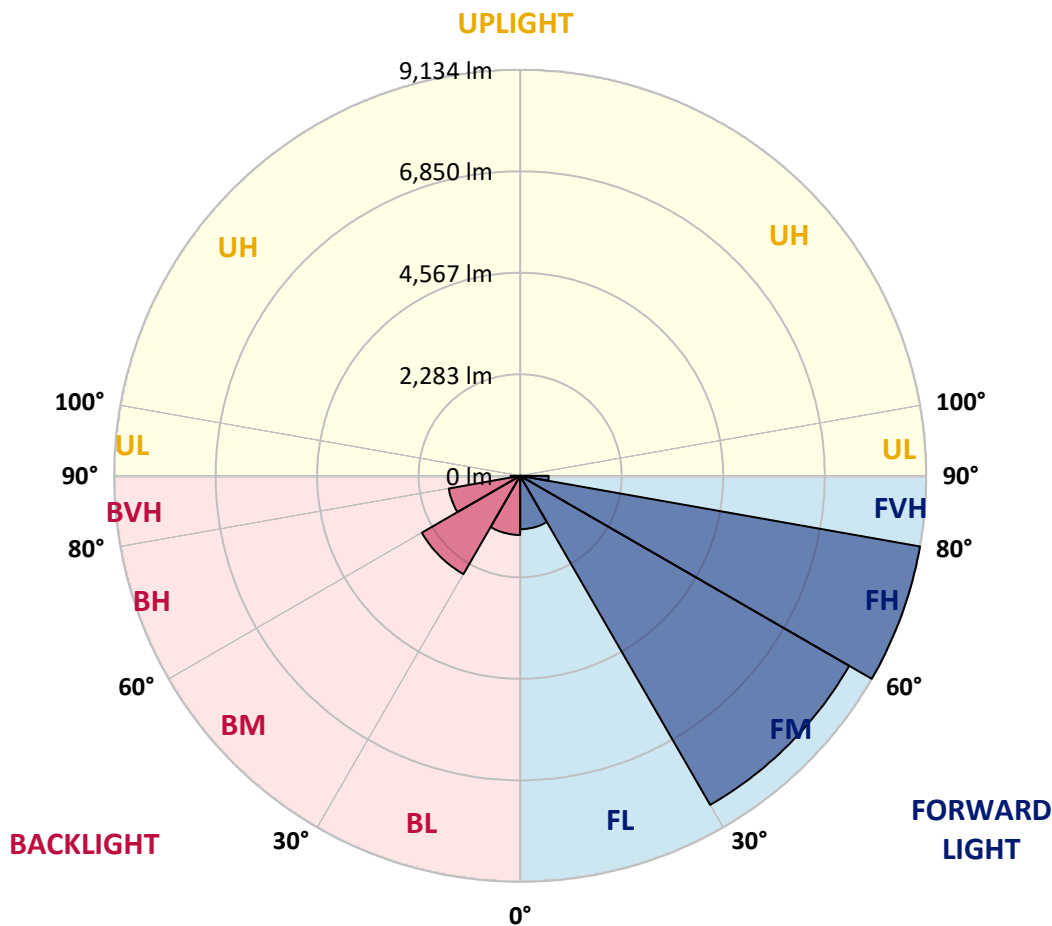
CATALOG NUMBER: ARCH-L-PA3-260-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1200.8	4.8			
FM (30°-60°)	8548.5	33.9			
FH (60°-80°)	9133.7	36.2			G4/12000
FVH (80°-90°)	642.0	2.5			G4/750
BL (0°-30°)	1330.3	5.3	B3/2500		
BM (30°-60°)	2555.3	10.1	B3/5000		
BH (60°-80°)	1632.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	209.1	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





REPORT NUMBER: P400322

CATALOG NUMBER: ARCH-L-PA3-260-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5
2.5°	2563.5	2550.2	2553.5	2553.5	2566.9	2573.5	2576.9	2586.9	2593.5	2610.2	2633.5
5°	2443.5	2433.5	2436.9	2440.2	2463.5	2486.9	2506.9	2520.2	2540.2	2566.9	2600.2
7.5°	2356.9	2350.2	2353.5	2360.2	2380.2	2406.9	2440.2	2460.2	2490.2	2540.2	2596.9
10°	2293.5	2293.5	2296.9	2310.2	2330.2	2363.5	2390.2	2413.5	2473.5	2563.5	2650.2
12.5°	2243.5	2243.5	2253.5	2280.2	2313.5	2346.9	2410.2	2436.9	2516.9	2640.2	2743.6
15°	2240.2	2243.5	2246.8	2270.2	2306.9	2380.2	2473.5	2513.5	2610.2	2756.9	2876.9
17.5°	2293.5	2296.9	2283.5	2290.2	2333.5	2436.9	2560.2	2606.9	2730.2	2890.2	3013.6
20°	2456.9	2456.9	2416.9	2380.2	2410.2	2523.5	2663.5	2710.2	2846.9	3023.6	3146.9
22.5°	2790.2	2806.9	2713.6	2633.5	2586.9	2650.2	2776.9	2826.9	2980.2	3170.3	3293.6
25°	3193.6	3210.3	3083.6	2970.2	2883.6	2873.6	2956.9	3010.2	3136.9	3333.6	3436.9
27.5°	3583.6	3553.6	3436.9	3330.3	3220.3	3130.3	3193.6	3240.3	3386.9	3537.0	3600.3
30°	3890.3	3867.0	3753.6	3677.0	3573.6	3456.9	3420.3	3470.3	3590.3	3730.3	3763.6
32.5°	4230.3	4213.7	4100.3	4000.3	3913.7	3803.6	3723.6	3747.0	3813.6	3913.7	3933.7
35°	4663.7	4700.4	4580.4	4377.0	4280.3	4173.7	4117.0	4123.7	4173.7	4237.0	4203.7
37.5°	5120.4	5163.8	5170.4	4850.4	4720.4	4623.7	4563.7	4587.0	4647.0	4690.4	4587.0
40°	5967.2	5923.8	5750.5	5513.8	5313.8	5220.4	5137.1	5133.7	5177.1	5253.8	5067.1
42.5°	7090.6	7050.6	6700.5	6393.9	6077.2	5970.5	5807.1	5737.1	5757.1	5853.8	5593.8
45°	8167.3	8150.7	7870.6	7513.9	7133.9	6927.2	6553.9	6383.9	6367.2	6443.9	6133.8
47.5°	9124.1	9050.7	8847.4	8570.7	8530.7	7990.6	7303.9	7073.9	6993.9	7037.2	6690.5
50°	10147.5	9897.5	9617.4	9447.4	9737.5	9234.1	8060.7	7820.6	7624.0	7654.0	7293.9
52.5°	10690.9	10270.8	10087.5	10137.5	10527.5	10334.2	8884.1	8590.7	8274.0	8317.3	7894.0
55°	10224.2	10220.8	10300.8	10610.9	11154.2	10930.9	9667.5	9337.4	8990.7	9000.7	8584.0
57.5°	9584.1	9714.1	10127.5	10810.9	11931.0	11557.6	10437.5	10087.5	9770.8	9720.8	9367.4
60°	9000.7	9144.1	9744.1	10777.5	12201.0	12131.0	11170.9	10864.2	10607.5	10460.8	10190.8
62.5°	8114.0	8220.7	9070.7	10564.2	11974.3	12544.3	11914.3	11704.3	11510.9	11207.6	11077.6
65°	7070.6	7107.2	8004.0	9860.8	11690.9	12704.4	12654.4	12561.0	12374.3	11927.6	11954.3
67.5°	5940.5	6013.8	6800.6	8737.4	11070.9	12631.0	13227.7	13304.4	13084.4	12414.3	12514.3
70°	4737.1	4827.1	5423.8	7183.9	10017.5	12314.3	13757.8	13881.1	13457.8	12574.4	12617.7
72.5°	2930.2	3016.9	3416.9	4990.4	7940.6	11250.9	13921.1	14081.1	13467.8	12361.0	11944.3
75°	1013.4	1023.4	1336.8	2393.5	4713.7	8494.0	13387.8	13764.4	13044.4	11584.3	10394.2
77.5°	463.4	480.0	593.4	986.7	2090.2	4583.7	11054.2	11997.6	11757.6	10370.8	8000.6
80°	320.0	326.7	410.0	590.0	1206.8	1613.5	6977.2	8207.3	8627.4	8030.7	5127.1
82.5°	240.0	246.7	316.7	400.0	870.1	783.4	2656.9	3813.6	4740.4	4653.7	2143.5
85°	230.0	226.7	246.7	266.7	580.0	466.7	860.1	1180.1	1850.1	1583.5	540.0
87.5°	100.0	110.0	253.4	150.0	303.4	216.7	373.4	436.7	563.4	490.0	193.3
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: P400322
 CATALOG NUMBER: ARCH-L-PA3-260-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5
2.5°	2643.5	2650.2	2670.2	2700.2	2716.9	2750.2	2773.6	2786.9	2796.9	2800.2	2800.2
5°	2620.2	2633.5	2676.9	2726.9	2773.6	2843.6	2906.9	2943.6	2970.2	2980.2	2983.6
7.5°	2626.9	2660.2	2723.6	2796.9	2856.9	2946.9	3023.6	3096.9	3156.9	3180.3	3180.3
10°	2690.2	2736.9	2823.6	2920.2	2996.9	3090.3	3170.3	3233.6	3303.6	3343.6	3350.3
12.5°	2786.9	2843.6	2956.9	3063.6	3150.3	3223.6	3296.9	3343.6	3376.9	3406.9	3413.6
15°	2923.6	2993.6	3106.9	3216.9	3293.6	3340.3	3360.3	3360.3	3356.9	3360.3	3366.9
17.5°	3060.2	3126.9	3240.3	3350.3	3386.9	3360.3	3336.9	3330.3	3326.9	3320.3	3323.6
20°	3193.6	3256.9	3353.6	3436.9	3406.9	3313.6	3283.6	3280.3	3270.3	3263.6	3256.9
22.5°	3326.9	3373.6	3453.6	3483.6	3363.6	3230.3	3193.6	3173.6	3160.3	3143.6	3126.9
25°	3480.3	3493.6	3553.6	3507.0	3256.9	3076.9	3023.6	2993.6	2980.2	2963.6	2950.2
27.5°	3623.6	3623.6	3633.6	3470.3	3100.3	2873.6	2793.6	2740.2	2736.9	2733.6	2730.2
30°	3753.6	3737.0	3703.6	3360.3	2896.9	2623.5	2503.5	2450.2	2470.2	2486.9	2490.2
32.5°	3907.0	3873.6	3780.3	3210.3	2653.5	2343.5	2196.8	2173.5	2196.8	2216.8	2203.5
35°	4147.0	4087.0	3860.3	3036.9	2420.2	2086.8	1946.8	1913.5	1906.8	1903.5	1876.8
37.5°	4490.4	4387.0	3923.7	2850.2	2190.2	1860.2	1756.8	1686.8	1623.5	1556.8	1546.8
40°	4910.4	4733.7	3967.0	2636.9	1946.8	1670.1	1560.1	1470.1	1363.4	1246.8	1233.4
42.5°	5370.4	5107.1	3987.0	2400.2	1733.5	1513.5	1376.8	1263.4	1143.4	1053.4	1036.8
45°	5867.1	5510.4	3970.3	2173.5	1560.1	1380.1	1226.8	1103.4	1006.7	943.4	930.1
47.5°	6350.5	5973.8	3923.7	1993.5	1426.8	1266.8	1110.1	996.7	923.4	853.4	836.7
50°	6970.6	6417.2	3867.0	1853.5	1280.1	1153.4	1036.8	916.7	833.4	800.1	793.4
52.5°	7657.3	6860.6	3800.3	1676.8	1136.8	1063.4	990.1	883.4	856.7	793.4	783.4
55°	8400.7	7387.3	3787.0	1453.5	1010.1	1000.1	943.4	913.4	920.1	793.4	776.7
57.5°	9184.1	7950.6	3817.0	1230.1	906.7	943.4	963.4	940.1	930.1	810.1	776.7
60°	10000.8	8494.0	3727.0	1023.4	826.7	896.7	986.7	926.7	853.4	803.4	780.1
62.5°	10794.2	8950.7	3336.9	876.7	766.7	883.4	973.4	876.7	793.4	793.4	783.4
65°	11370.9	9154.1	2610.2	770.1	726.7	866.7	950.1	843.4	776.7	800.1	786.7
67.5°	11437.6	8944.1	1753.5	686.7	693.4	836.7	896.7	813.4	760.1	820.1	800.1
70°	11027.6	8397.3	1073.4	623.4	650.1	783.4	850.1	783.4	736.7	803.4	773.4
72.5°	9964.1	7377.3	756.7	570.0	603.4	733.4	806.7	756.7	703.4	726.7	696.7
75°	8174.0	5717.1	600.0	520.0	556.7	686.7	770.1	716.7	663.4	653.4	633.4
77.5°	5790.5	3663.6	483.4	480.0	506.7	630.1	720.1	670.1	616.7	596.7	583.4
80°	3330.3	1796.8	416.7	433.4	460.0	573.4	660.1	616.7	566.7	536.7	516.7
82.5°	1273.4	626.7	366.7	376.7	406.7	513.4	600.0	563.4	513.4	540.0	453.4
85°	413.4	343.4	300.0	310.0	340.0	426.7	530.0	500.0	443.4	393.4	363.4
87.5°	183.3	186.7	160.0	176.7	213.4	283.4	386.7	366.7	323.4	270.0	260.0
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)