

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: P400250

Luminaire Tested: **ARCH-L-PA3-250-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400250
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-PA3-250-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24668 lumens
Efficiency: N/A
Efficacy: 98.3 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

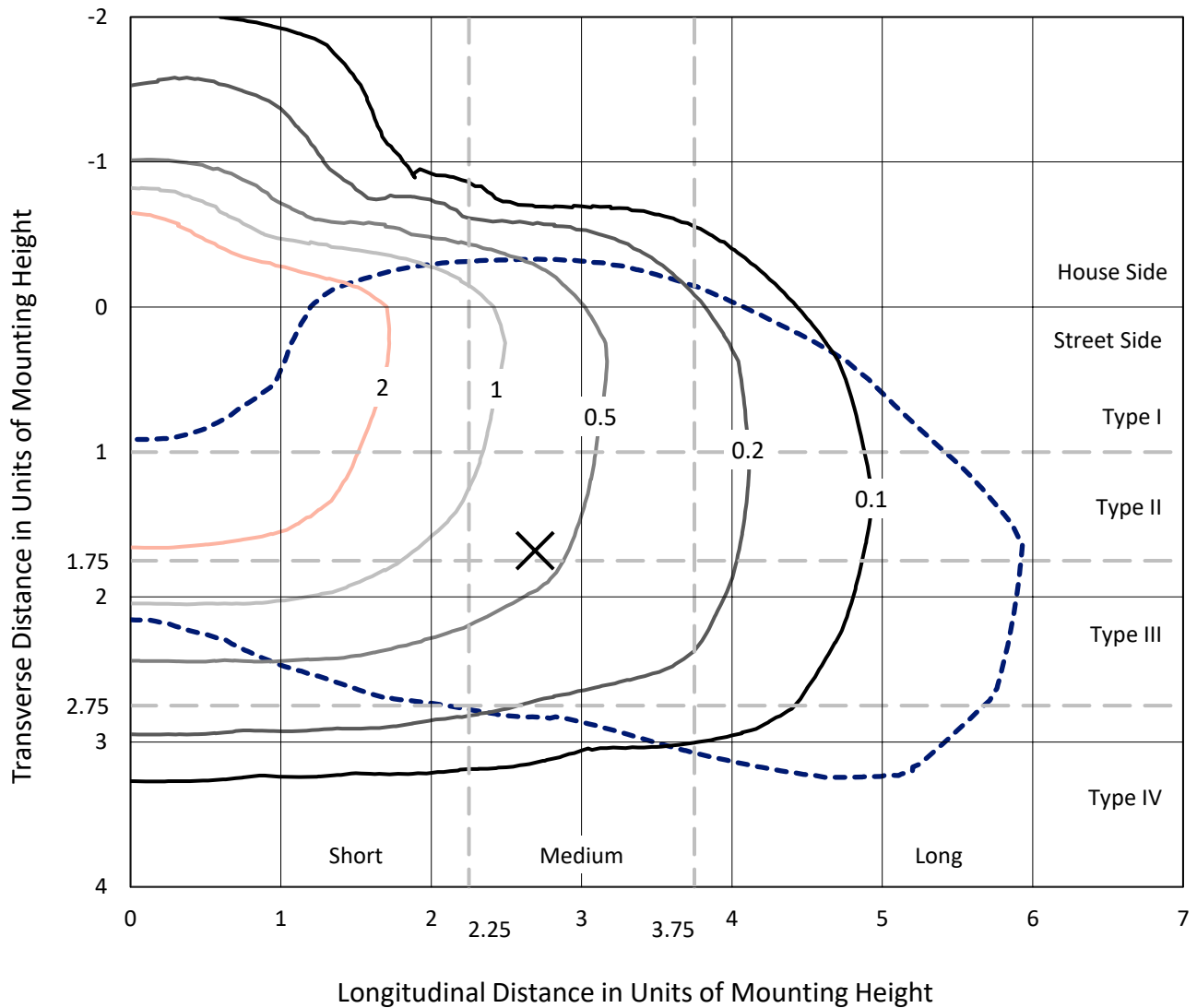
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400250
 CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

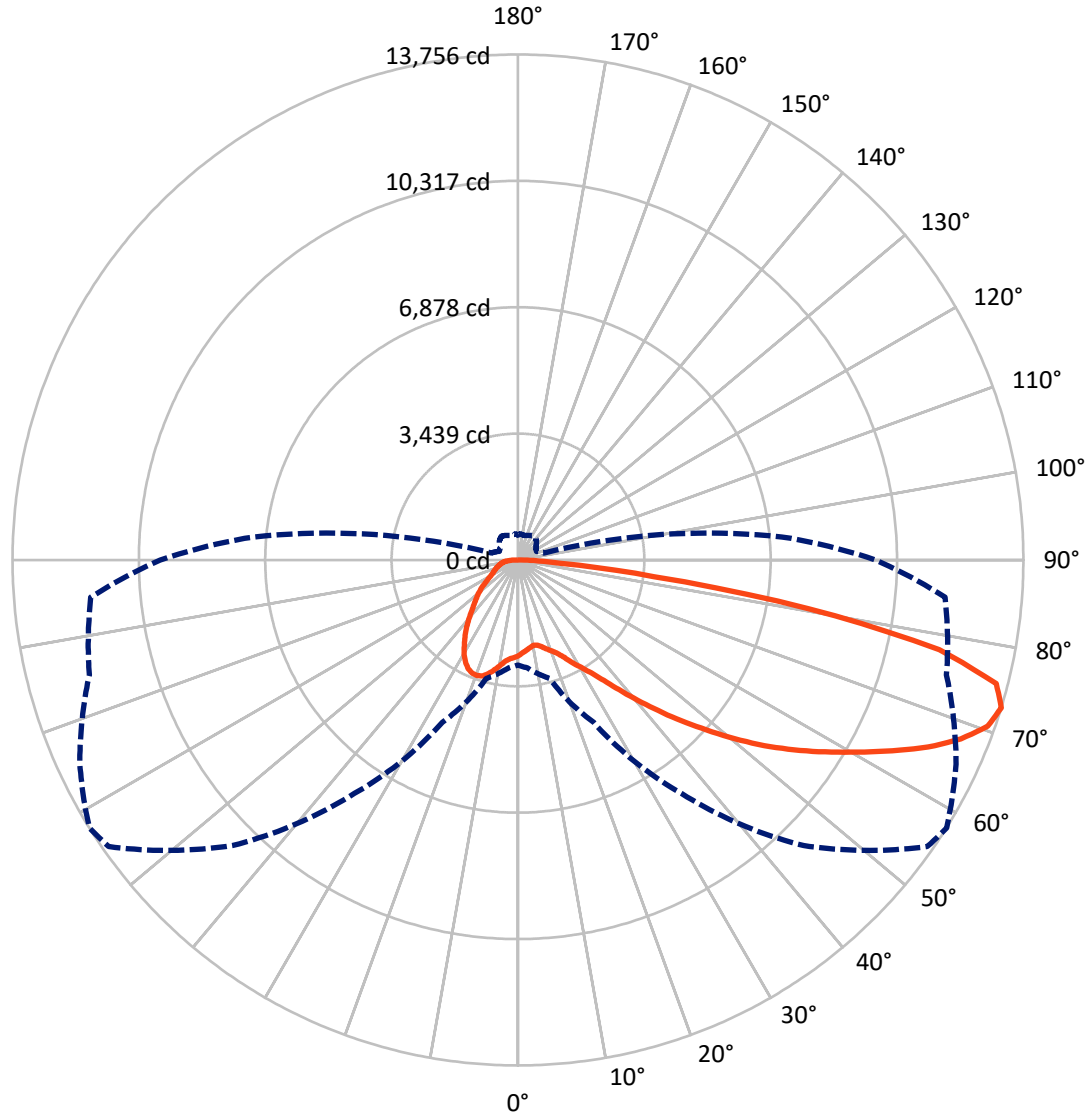
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400250
CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P400250
 CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3

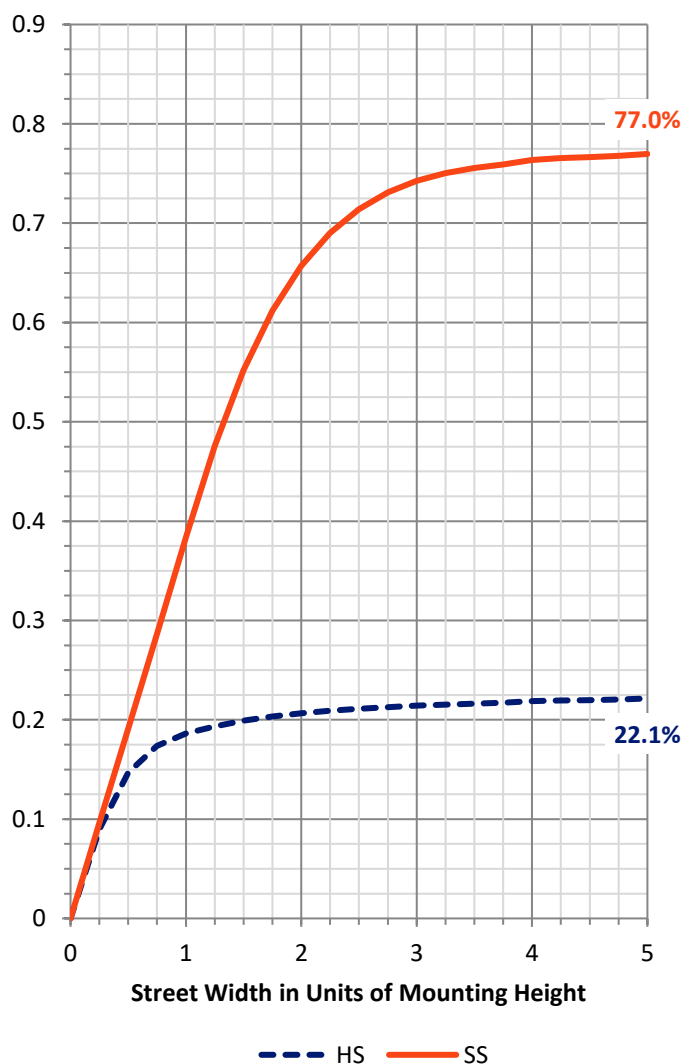
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5594.4	0.0	5594.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19073.6	0.0	19073.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	24668.0	0.0	24668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.6	1.0
10°-20°	796.0	3.2
20°-30°	1425.9	5.8
30°-40°	2144.9	8.7
40°-50°	3473.4	14.1
50°-60°	5228.6	21.2
60°-70°	6153.6	24.9
70°-80°	4363.4	17.7
80°-90°	831.4	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°	24668.0	100.0
0°-180°	24668.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400250

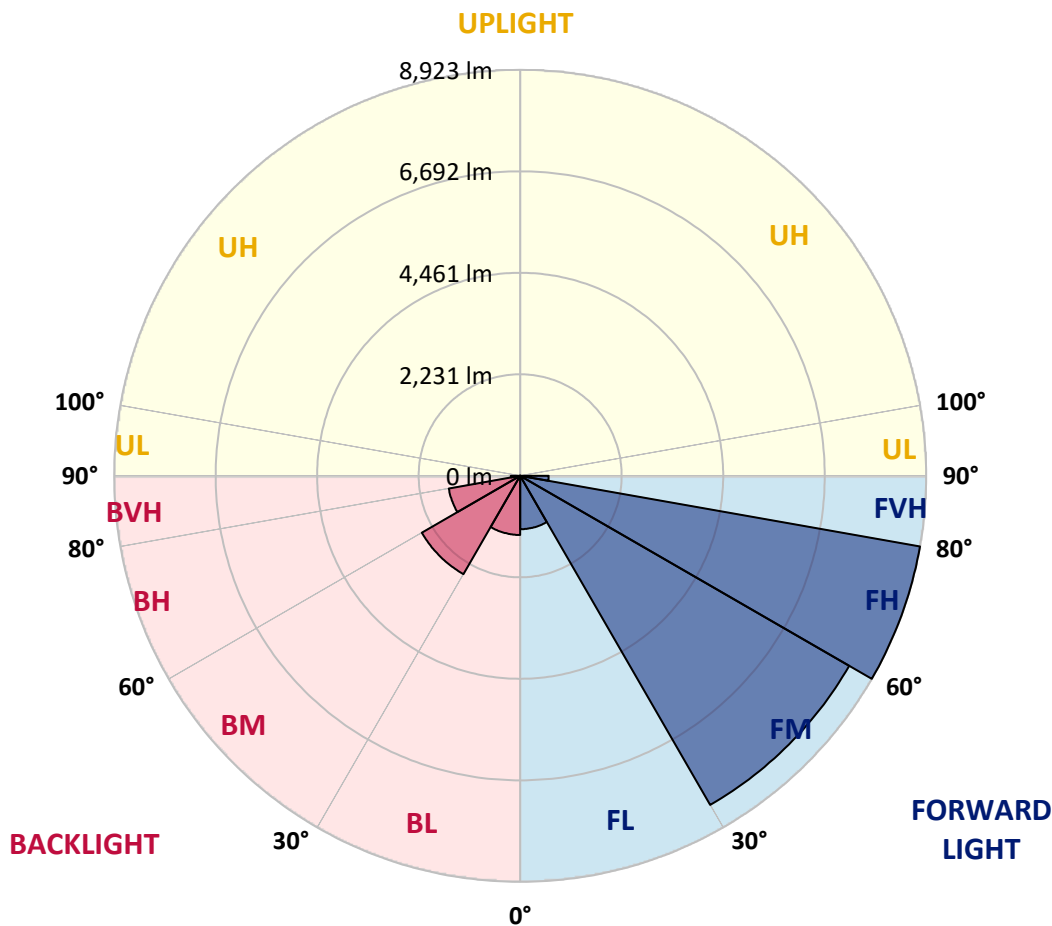
CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.1	4.8			
FM (30°-60°)	8350.8	33.9			
FH (60°-80°)	8922.5	36.2			G4/12000
FVH (80°-90°)	627.2	2.5			G4/750
BL (0°-30°)	1299.5	5.3	B3/2500		
BM (30°-60°)	2496.2	10.1	B2/2500		
BH (60°-80°)	1594.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	204.3	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-G4

Type IV Medium





REPORT NUMBER: P400250

CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9
2.5°	2504.3	2491.2	2494.5	2494.5	2507.5	2514.0	2517.3	2527.0	2533.6	2549.8	2572.6
5°	2387.0	2377.3	2380.5	2383.8	2406.6	2429.4	2448.9	2461.9	2481.5	2507.5	2540.1
7.5°	2302.4	2295.8	2299.1	2305.6	2325.1	2351.2	2383.8	2403.3	2432.6	2481.5	2536.8
10°	2240.5	2240.5	2243.7	2256.8	2276.3	2308.9	2334.9	2357.7	2416.3	2504.3	2588.9
12.5°	2191.6	2191.6	2201.4	2227.5	2260.0	2292.6	2354.5	2380.5	2458.7	2579.2	2680.1
15°	2188.4	2191.6	2194.9	2217.7	2253.5	2325.1	2416.3	2455.4	2549.8	2693.1	2810.4
17.5°	2240.5	2243.7	2230.7	2237.2	2279.6	2380.5	2501.0	2546.6	2667.1	2823.4	2943.9
20°	2400.0	2400.0	2361.0	2325.1	2354.5	2465.2	2601.9	2647.5	2781.1	2953.7	3074.1
22.5°	2725.7	2742.0	2650.8	2572.6	2527.0	2588.9	2712.7	2761.5	2911.3	3096.9	3217.4
25°	3119.7	3136.0	3012.3	2901.5	2816.9	2807.1	2888.5	2940.6	3064.4	3256.5	3357.5
27.5°	3500.7	3471.4	3357.5	3253.3	3145.8	3057.9	3119.7	3165.3	3308.6	3455.2	3517.0
30°	3800.3	3777.5	3666.8	3591.9	3491.0	3377.0	3341.2	3390.0	3507.3	3644.0	3676.6
32.5°	4132.5	4116.2	4005.5	3907.8	3823.1	3715.7	3637.5	3660.3	3725.4	3823.1	3842.7
35°	4555.9	4591.7	4474.4	4275.8	4181.4	4077.1	4021.8	4028.3	4077.1	4139.0	4106.5
37.5°	5002.0	5044.3	5050.8	4738.2	4611.2	4516.8	4458.2	4481.0	4539.6	4581.9	4481.0
40°	5829.1	5786.8	5617.5	5386.3	5190.9	5099.7	5018.3	5015.0	5057.4	5132.3	4949.9
42.5°	6926.6	6887.5	6545.6	6246.0	5936.6	5832.4	5672.8	5604.4	5624.0	5718.4	5464.4
45°	7978.4	7962.2	7688.6	7340.2	6968.9	6767.0	6402.3	6236.2	6219.9	6294.8	5992.0
47.5°	8913.1	8841.4	8642.8	8372.5	8333.4	7805.8	7135.0	6910.3	6832.2	6874.5	6535.8
50°	9912.8	9668.6	9395.0	9228.9	9512.3	9020.5	7874.2	7639.8	7447.6	7476.9	7125.2
52.5°	10443.6	10033.3	9854.2	9903.0	10284.1	10095.2	8678.6	8392.0	8082.7	8125.0	7711.4
55°	9987.7	9984.5	10062.6	10365.5	10896.3	10678.1	9443.9	9121.5	8782.8	8792.6	8385.5
57.5°	9362.5	9489.5	9893.3	10560.9	11655.0	11290.3	10196.1	9854.2	9544.8	9496.0	9150.8
60°	8792.6	8932.6	9518.8	10528.3	11918.8	11850.4	10912.6	10613.0	10362.2	10218.9	9955.1
62.5°	7926.3	8030.5	8861.0	10319.9	11697.4	12254.2	11638.8	11433.6	11244.7	10948.4	10821.4
65°	6907.1	6942.9	7818.9	9632.7	11420.6	12410.6	12361.7	12270.5	12088.2	11651.8	11677.8
67.5°	5803.1	5874.7	6643.3	8535.3	10814.9	12338.9	12921.8	12996.7	12781.8	12127.2	12224.9
70°	4627.5	4715.4	5298.3	7017.8	9785.8	12029.5	13439.6	13560.1	13146.5	12283.5	12325.9
72.5°	2862.5	2947.1	3337.9	4875.0	7757.0	10990.7	13599.2	13755.5	13156.3	12075.1	11668.1
75°	990.0	999.7	1305.9	2338.2	4604.7	8297.6	13078.1	13446.1	12742.7	11316.4	10153.8
77.5°	452.7	468.9	579.7	963.9	2041.8	4477.7	10798.6	11720.2	11485.7	10131.0	7815.6
80°	312.6	319.1	400.6	576.4	1178.9	1576.1	6815.9	8017.5	8427.8	7844.9	5008.5
82.5°	234.5	241.0	309.4	390.8	849.9	765.3	2595.4	3725.4	4630.8	4546.1	2093.9
85°	224.7	221.4	241.0	260.5	566.6	455.9	840.2	1152.8	1807.4	1546.8	527.6
87.5°	97.7	107.5	247.5	146.5	296.3	211.7	364.7	426.6	550.3	478.7	188.9
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: P400250
 CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9	2601.9
2.5°	2582.4	2588.9	2608.5	2637.8	2654.1	2686.6	2709.4	2722.4	2732.2	2735.5	2735.5
5°	2559.6	2572.6	2615.0	2663.8	2709.4	2777.8	2839.7	2875.5	2901.5	2911.3	2914.6
7.5°	2566.1	2598.7	2660.6	2732.2	2790.8	2878.8	2953.7	3025.3	3083.9	3106.7	3106.7
10°	2628.0	2673.6	2758.3	2852.7	2927.6	3018.8	3096.9	3158.8	3227.2	3266.3	3272.8
12.5°	2722.4	2777.8	2888.5	2992.7	3077.4	3149.0	3220.7	3266.3	3298.8	3328.2	3334.7
15°	2856.0	2924.3	3035.1	3142.5	3217.4	3263.0	3282.6	3282.6	3279.3	3282.6	3289.1
17.5°	2989.5	3054.6	3165.3	3272.8	3308.6	3282.6	3259.8	3253.3	3250.0	3243.5	3246.7
20°	3119.7	3181.6	3276.0	3357.5	3328.2	3237.0	3207.7	3204.4	3194.6	3188.1	3181.6
22.5°	3250.0	3295.6	3373.7	3403.1	3285.8	3155.6	3119.7	3100.2	3087.2	3070.9	3054.6
25°	3399.8	3412.8	3471.4	3425.8	3181.6	3005.8	2953.7	2924.3	2911.3	2895.0	2882.0
27.5°	3539.8	3539.8	3549.6	3390.0	3028.6	2807.1	2729.0	2676.8	2673.6	2670.3	2667.1
30°	3666.8	3650.5	3618.0	3282.6	2829.9	2562.9	2445.6	2393.5	2413.1	2429.4	2432.6
32.5°	3816.6	3784.1	3692.9	3136.0	2592.2	2289.3	2146.0	2123.2	2146.0	2165.6	2152.6
35°	4051.1	3992.5	3771.0	2966.7	2364.2	2038.6	1901.8	1869.2	1862.7	1859.5	1833.4
37.5°	4386.5	4285.6	3832.9	2784.3	2139.5	1817.1	1716.2	1647.8	1585.9	1520.8	1511.0
40°	4796.8	4624.2	3875.2	2575.9	1901.8	1631.5	1524.0	1436.1	1331.9	1217.9	1204.9
42.5°	5246.2	4989.0	3894.8	2344.7	1693.4	1478.5	1344.9	1234.2	1117.0	1029.1	1012.8
45°	5731.5	5383.0	3878.5	2123.2	1524.0	1348.2	1198.4	1077.9	983.5	921.6	908.6
47.5°	6203.6	5835.7	3832.9	1947.4	1393.8	1237.5	1084.4	973.7	902.1	833.7	817.4
50°	6809.4	6268.8	3777.5	1810.6	1250.5	1126.8	1012.8	895.5	814.1	781.6	775.0
52.5°	7480.2	6701.9	3712.4	1638.0	1110.5	1038.8	967.2	863.0	836.9	775.0	765.3
55°	8206.4	7216.4	3699.4	1419.8	986.7	977.0	921.6	892.3	898.8	775.0	758.8
57.5°	8971.7	7766.8	3728.7	1201.7	885.8	921.6	941.1	918.3	908.6	791.3	758.8
60°	9769.5	8297.6	3640.8	999.7	807.6	876.0	963.9	905.3	833.7	784.8	762.0
62.5°	10544.6	8743.7	3259.8	856.5	749.0	863.0	950.9	856.5	775.0	775.0	765.3
65°	11107.9	8942.4	2549.8	752.3	709.9	846.7	928.1	823.9	758.8	781.6	768.5
67.5°	11173.1	8737.2	1712.9	670.8	677.4	817.4	876.0	794.6	742.5	801.1	781.6
70°	10772.5	8203.1	1048.6	609.0	635.0	765.3	830.4	765.3	719.7	784.8	755.5
72.5°	9733.7	7206.7	739.2	556.9	589.4	716.4	788.1	739.2	687.1	709.9	680.6
75°	7985.0	5584.9	586.2	508.0	543.8	670.8	752.3	700.1	648.0	638.3	618.7
77.5°	5656.6	3578.9	472.2	468.9	495.0	615.5	703.4	654.6	602.5	582.9	569.9
80°	3253.3	1755.3	407.1	423.3	449.4	560.1	644.8	602.5	553.6	524.3	504.8
82.5°	1244.0	612.2	358.2	368.0	397.3	501.5	586.2	550.3	501.5	527.6	442.9
85°	403.8	335.4	293.1	302.9	332.2	416.8	517.8	488.5	433.1	384.3	355.0
87.5°	179.1	182.4	156.3	172.6	208.4	276.8	377.8	358.2	315.9	263.8	254.0
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)